>>>>> VISION ‣ AUTOMATION ‣ CONTROL ◀◀◀◀◀

INSPECT

BuyersGuide 2013

emva
european machine vision association

POINT GREY

iDS

One Step Ahead

The INSPECT team ended the editorial year 2012 with the Buyers Guide, an overview of the European machine vision market. We have compiled data and information about the services provided by considerably more than 400 companies from over 30 countries in this official directory of companies and manufacturers of the European Machine Vision Association (EMVA). 10% more companies have contributed an entry to this issue of the Buyers Guide than in the previous year. For us, this increase confirms the continuing upward trend of the industry.

This year the EMVA Buyers Guide will be published immediately after the Vision show – the event highlight in 2012. Here too, the dynamics and the positive outlook for the future were apparent. In the future, vision technologies are certain to play an increasing role in improving efficiency and quality in industrial production. Further industries in Europe will open up to the use of image processing if they wish to stay ahead in the global competition for the best solutions and products. There are therefore good opportunities for continued growth for the exhibitors at the Vision and the companies which are represented in this issue.

However, a key event such as the Vision only lasts a few days. The Buyers Guide can accompany you as a useful work of reference far into 2013. For this, we have categorised the increasing volume of services into a clear and manageable structure.

The compilation, intelligent structuring and timely provision of information is our core competence and our role in the machine vision community. We want to support you in your search and to ensure that you are already working on a solution with the right products and service providers, while those who do not read INSPECT are still searching.

I hope that you always have this issue of the EMVA Buyers Guide at hand and are always one decisive step ahead of the competition in 2013.

Bernhard Schroth
Editor-in-Chief INSPECT

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R & D Roadmap 18

EMVA Market Statistics 8

COVER STORY

TOPICS

BUYERS GUIDE

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Vision Technologies

SEEING IS BELIEVING

Machine Vision and Optical Metrology in Europe

The INSPECT Buyers Guide 2013

Throughout the year, we aim to provide you with information about new developments, technological trends, groundbreaking applications, new products and leading companies. Throughout the year, we are faced with the recurring challenge: What to select, what to highlight, what to point out. There is never enough room to cover it all. So once a year we seize the opportunity to present to you a comprehensive overview of the machine vision and optical metrology industries.

The Online Buyers Guide provides sophisti-cated search functions for all listed companies.

The full text search for "camera" yields 147 results: every company having used the word "camera" in their description is listed.

Companies providing a fullfledged company profile will be addi-tionally found in mul-tiple categories with the keyword search.

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BuyersGuide 2013

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The INSPECT Buyers Guide is published in its fifth year now, for the fourth time it also serves as the official Buyers Guide of the EMVA, the European Machine Vision Association. The guide contains information about more than 400 companies from over 30 countries. The INSPECT Buyers Guide has a clear focus on companies doing business in Europe or exporting their goods to Europe. Naturally this comprehends companies and organizations from all over the world.

Online ...

The INSPECT Buyers Guide is a true cross-media product. At www.inspect-online.com/buyers-guide the online database provides sophisticated search functions for all listed companies. Every entry can be searched for with full-text search, and every listed company will be found here based on the individual company description. Additionally, every listed company will be found by name, company category (e.g. producer, integrator, research facility, association, etc.) and country of headquarters.

Companies wanting to provide more information and aiming at even better search results are listed with a company profile, including detailed company data and a listing of products offered, industries served and applications catered to. These, and only these, companies will be found in the respective search categories.

The online Buyers Guide is open for companies within the scope of the INSPECT all year round. In this way it is always up-to-date.

... and Print

The availability of data online is a clear benefit when presented with clever search functions. However, sometimes you do not want to bother going online, or you don't want to search specifically but rather obtain a quick overview. In these instances a printed version has its unchallenged advantages. Not to mention the ease-of-use when taking notes right next to the provided data. Thus, once a year the INSPECT Buyers Guide printed edition is provided to you. With this guide we aim to give you a full overview that is still easy-to-use, a complete set of information that is still not too sub-divided into too many categories.

The INSPECT Buyers Guide 2013 is divided into three main chapters: Topics of longterm impact, company profiles for the main global regions, and company listings for the main product catego-ries. In an industry as innovative and dynamic as ours it will most likely never be possible to provide an overview that is final and complete, but we do our best to come as close as possible.

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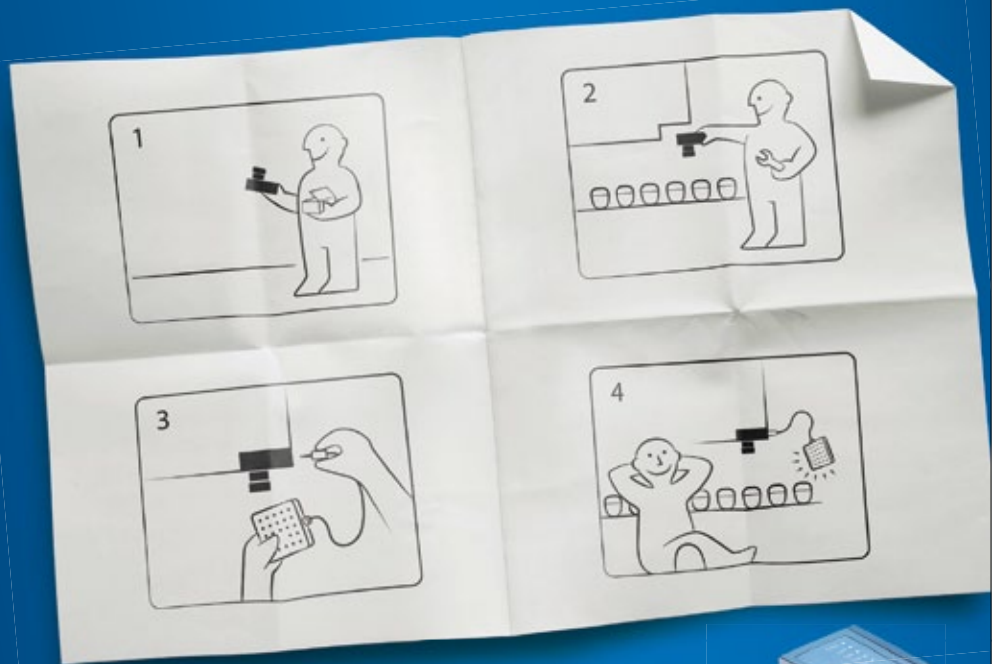
Taking a Close Look:
The European Machine Vision Industry

Country-Specific Market Information from the EMVA Reports

The European Vision Technology Market Statistics are a unique source of detailed information on the machine vision industry in Europe. With the core chapter of the report being a detailed analysis of machine vision sales out of Europe as well as an overview about European market and industry trends, the study has been continuously complemented by qualitative information on specific European countries.

Based on the comprehensive quantitative data gathered through a questionnaire sent out to hundreds of machine vision companies each year, five years ago the European Machine Vision Association (EMVA) has begun to expand its annual industry study "European Vision Technology Market Statistics." Analyzing the total European machine vision industry on a regular basis, it had become clear that a closer look into the specific countries in Europe will provide valuable information in addition to the existing analysis of industry as a whole. With a separate analysis of the German market already in place, a strategy has been set up to successively cover the major machine vision markets in Europe and dedicate to each of them their own chapter within the study, covering both quantitative and qualitative data.

Industry Volume

A prime motivation to cover more and more European markets by specific country reports is to eventually be able to provide a valid extrapolation of the total volume of machine vision industry in Europe. Already, such extrapolations of the industry volumes are being done for Germany, Italy, the United Kingdom, France, and Benelux. The machine vision industry in these countries or regions has been investigated intensively in order to provide a data base of close to all enterprises active in the field of machine vision in the respective country by name, activity and size. Only then can the data gathered directly from the companies through the questionnaire be extrapolated into valid industry size estimation. The methodology used to extrapolate the national market volumes complements the data returned by the companies with expert opinions upon the size of machine vision companies that did not return the questionnaire and to identify hitherto unknown companies. This, together with an extensive desktop research using commercial registers, internet databases, information from corporate websites, national associations and cluster organizations, provides the basis for a very comprehensive coverage of the machine vision players in the respective country. These data is supplemented and validated by telephone interviews and expert opinions gathered during workshops and trade shows. This also includes a series of personal, qualitative in-depth interviews of selected key players along the machine vision value chain in the respective countries.

Market Particularities

After four years of experience with the country-specific reports, it has become evident that the machine vision industry is far from being homogenous across Europe. Instead, each country report we conducted revealed specific peculiarities which distinguish the respective market from other European markets. This includes all relevant parameters to qualify the machine industry in a given market, such as size, number of companies, manufacturing penetration of these companies, applications they provide and the

industries they serve. For instance, the UK machine vision industry has only very few manufacturers of vision components and relies to a great length on imports. As to customer industries, the automotive industry is a key driver of machine vision technology and is a major reason for the German machine vision market being the number one in Europe. Yet, the customer structure of most other machine vision markets in Europe is much more diverse: In France, the aeronautic industry plays a much larger role for machine vision enterprises than automotive customers; machine vision for agriculture on the other hand is primarily found in the Netherlands.

New Players

In a still fairly young and heterogeneous industry such as the machine vision industry, there is continuous movement and a rather high volatility. Thus, another positive result of the close investigation of the to-date five markets is that a good number of new companies could be identified in each of these regions. These companies were either new on the market or not visible until then since they are specialized on certain niches or only act within a local or regional radius, e.g. small integrators. In an ever increasing number of applications in new fields and sectors, there will always be new market entries which need to be moni-

tored in order to observe the development of the whole industry.

European Characteristics

Other characteristics of a country-specific machine vision market are the level of collaboration between research and the industry, and also more general economic factors such as the significance of industrial production, services and farming, respectively, in the economy; its export orientation, and whether there are geographic industry clusters which offer opportunities to the machine vision sector to specialize. Each of these characteristics influences the way a domestic machine vision market is set up and will further develop. Accumulating and analyzing this data step-by-step helps to understand the structure of the European machine vision industry as a whole.

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Machine Vision
in North America

What to Expect for 2013?

The market for machine vision (MV) components and systems in North America has been highly turbulent in recent years. During the Great Recession, sales growth nearly stalled at 1.2% in 2008 and then dropped precipitously in 2009 by an unprecedented –29.2%.

Earlier, during the 2002 US recession, the business cycle exacted a high toll, with MV sales plummeting by –14.8%. So when the Great Recession struck in 2008–09, the influence of the business cycle was hardly unknown. However, nothing could have prepared the MV industry in North America for the extent of damage that occurred. Nearly one-third (29.2%) of the market shrunk between 2008 and 2009!

Recovery from Recession

But like a rubber ball, what goes down can bounce back up, and that is exactly what happened with machine vision sales in 2010. Following the Great Recession, a recovery began in 2010, bringing a dramatic uptick in MV sales of 60.2% in response to strong, pent-up demand. As a result, sales in that year were well above trend.

In the year that followed, 2011, the fever pitch of sales activity continued with volumes well above the historical trend line.

As of this writing, we are unable to draw on a full four quarters of data for 2012. (Fourth quarter results of large, publicly-traded companies won't be released until February, 2013.) However, with available, actual data for 2012, sentiment scores taken from the last AIA Quarterly Tracking Report, economic forecasts, and a trend analysis, we were able to forecast 2012 sales. Based on our forecast, and the strength of 2011 sales, we expect a percent annual change in sales of –2.4% in 2012.

It is important to note that the lower rate of sales growth of 4.7% in 2011 reflects primarily the strong sales volumes of 2010. By contrast, the forecast rate of sales growth of –2.4% for 2012 derives from satisfaction of much of the pent-up demand occurring in the preceding years of 2010 and 2011. Additionally, the rate of sales growth for 2012 reflects a reduction in demand during that year caused by a slowing US manufacturing sector. This is indicated by both the average, annual US Purchasing Managers Index (PMI), which measures expansion/ contraction of the manufacturing sector, and US industrial production. (Both indicators are shown below for years 2010–13.)

Positive Trend

We must also note that while the business cycle largely explains fluctuations in MV sales, there is additionally a strong, positive trend component to MV sales that we

US Manufacturing Indices

	2010	2011	2012 (forecast)	2013 (forecast)
PMI	57.3%	55.3%	51.3%	50.2%
Industrial Production	6.3%	4.8%	4.5%	2.3%
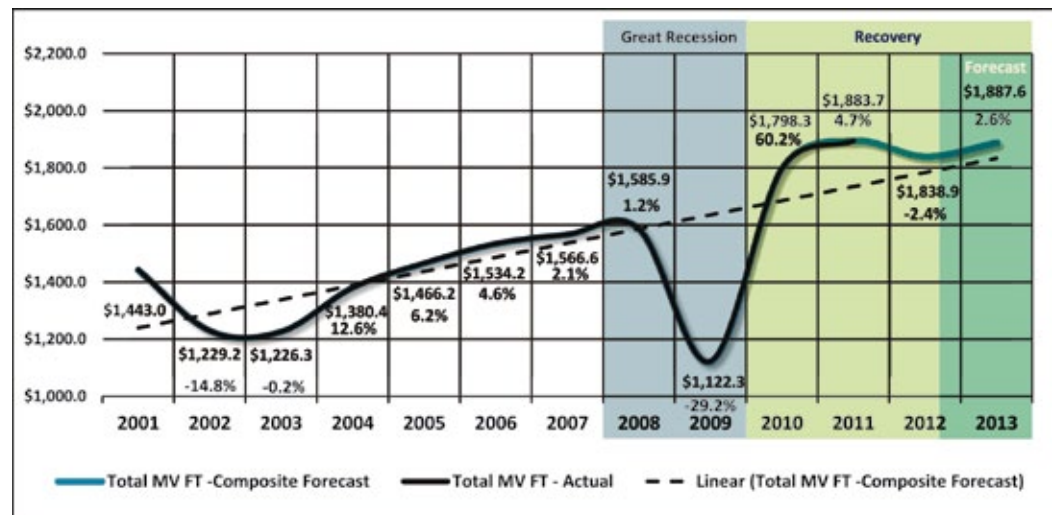
Total Machine Vision Financial Transactions (MV Component + MV System Sales) in US$ Millions (USD)

believe results from machine vision's value proposition of increased productivity, greater efficiency and enhanced product quality. Both a visual examination of MV sales data plotted over time and a regression analysis leave little doubt that despite the vagaries of the business cycle, MV sales in North America have generally followed an upward trajectory. What this means is that sales volumes have fluctuated around a trend line that has exhibited a decidedly positive slope. This trend line is readily discernible from historical sales data, as shown by the following plot of total machine vision financial transactions (which are the sum of total MV component and system sales).

For 2013 we expect annual MV sales to approach the trend line. As a result, MV sales growth should re-enter positive territory with a rate of growth of +2.6% in 2013.

Our 2013 forecast is not only based on a linear extrapolation of the MV sales trend line but also recent sales performance and economic forecasts for the US manufacturing sector (as previously indicated). We also validated our 2013 forecast with the results of a sentiment survey that identified industry expectations as positive for 2013, with an overwhelming portion (59%) of survey respondents predicting sales growth.

If the industry is correct in its expectations and our 2013 MV sales forecast is accurate, machine vision companies selling into the North American market should do reasonably well. But of course there are no guarantees. Unforeseen events can and do occur, throwing off the most meticulously derived forecasts. For example, partisan intransigence in the US Congress could result in a budgetary deadlock, with the US economy hurdling over the so-called "fiscal cliff." Addi-

tionally, a war with Iran could result in a spike in the price of oil, which would devastate the US economy. A negative, spill-over effect from Eurozone troubles could similarly wreak economic havoc. However, as of now at least, we assume these events will not occur and the overall US economy and manufacturing sector will continue to exhibit weak growth. We therefore

expect 2013 to be a year of sales growth for machine vision companies.

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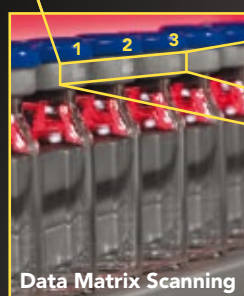
Standardization for Image Processing

The panelists (from left to right): George Chamberlain, Co-founder and President, Pleora Technologies Inc.; Dr. Friedrich Dierks, Director of Platform Development, Basler AG; Bernhard Schroth, Editor-in-Chief, INSPECT; Dr. rer. nat. Klaus-Henning Noffz, Co-founder and Member of the Executive Board, Silicon Software GmbH; Jochem Herrmann, Co-founder and Chief Scientist, Adimec Advanced Image Systems B.V.; Thomas Nepstad, Field Product Marketing Manager Vision Software, Cognex Germany

Photo: VDMA

Although the Machine Vision market is relatively small, it has specific needs that cannot always be fulfilled by existing standards. For this reason, several standards have been especially developed for the Machine Vision market, like Camera Link, CoaXPress, EMVA1288, GenICam and GigE Vision. Right now, even more interface standards are on their way onto the market, like Camera Link HS and USB3 Vision.

What are these standards about? What is the benefit for users of machine vision? And what makes this topic so important for the vendor that companies are putting so much effort into working on standardization?

Does developing standards for such a small industry make sense? Or would it be more prudent to adopt existing standards from the consumer industry or from larger industry groups with more market power?

These were just some of the questions discussed during the INSPECT panel discussion "Make or buy? – Standardization for image processing" at this year's Vision show in Stuttgart.

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INSPECT: Who needs machine vision standards? Do standards benefit the user of machine vision technology? And why can't standards be used that already exist elsewhere?

G. Chamberlain: Let us look at the relationship between users and vendors. If a user is working with a proprietary offering from a company, the vendor has a lot of power and the user runs the risk of the vendor not being able to supply the product. And if you don't have that security of supply, then your revenue is at stake as well. So I think it's a very poor business process for a company to be relying on products that aren't standard, because it means they can't have second sources.

So who else can benefit? We have the machine vision market itself, the core for manufacturing quality inspection, and one of the essences of this market is that we're doing real-time analysis on high-speed video. Generally, we need low consistent latency, and these properties are actually fairly specific to our market. You can't find these exact requirements in other markets. So it's hard to leverage other standards from other markets.

K.-H. Noffz: We are now a broad market and proprietary interfaces are only an adequate solution in very few areas. The question is whether the consumer standards will fulfil the needs of the market. We have a lot of experience in adopting these standards, like Gigabit Ethernet, USB3 and FireWire, but I don't really believe this is the ultimate answer, because we have special needs in the market. It's like asking: "Why don't you buy your camera from the electronics warehouse next door? It has a sensor, USB3 interface and is probably much cheaper than anything you can find here." You won't do that because machine vision needs additional things, like different resolution and bandwidth, and – much more important – you need high product reliability. You need support and you need long-term availability. So even if consumer standards are popular and also successful, I see a problem in long-term guarantees.

Using standardization means that products become interchangeable, which clearly makes it attractive from the customer's point of view. But what is in it for the vendors? What are the benefits of standards from their point of view?

F. Dierks: There's something that I would call the vendor's dilemma. Because, first of all, a vendor who is thinking about investing time in a standard will think he is giving away know-how. And the other problem is, if there is a standard, products become interchangeable and that means competition becomes higher. So the first impulse for a vendor would be: "Don't do standards!" You might want to lock your customer in and your special API might be much better. But the experience from the past is that you can only develop the market if you have a standard, because customers can't stand being locked in and they want to have a commitment from companies.

And there are other benefits for vendors. When you do the first standardization, it's just overheads and work. But when you create the second standard, you find that you can start reusing things. We've now just finalized the USB3 Vision standard where we could reuse huge amounts of work that had already been done on previous standards. We were able to make a full-blown standard in only 14 months from the kickoff meeting to the first release candidate, with only three meetings. That means we have now saved a lot of costs.

T. Nepstad: One way to grow markets is to have an efficient solution. Now, you may ask how a standard can create an efficient solution and how you can measure that. One easy way to figure that out is by looking at the database of support calls that you receive. If we look back to the introduction of GigE Vision, we saw that there were many technical support calls on Gigabit or GigE Vision. It turned out that a standard is very useful, but it's even more useful if it's a living standard. So what we learned is, by talking with the vendors and making sure that every camera can work with every, let's say, driver, you make your customers efficient. They're not wasting their time trying to figure out why this camera works and that camera doesn't work. But they simply solve their application and can get to the next application much more quickly, and this in return helps to grow the market.

Some standards have already been developed by the machine vision industry. What are these standards and why are the majority of them interface standards? And by the way: Does it not defy the concept of standards when so many of them are created for the same purpose, i.e. the camera interface?

G. Chamberlain: Standards for our industry originate through three different associations. AIA has Camera Link, Camera Link HS, GigE Vision and USB3 Vision just emerging. All four of those are camera interface standards. EMVA has 1288 for measuring camera characteristics and GenICam, which is actually the software interface for the camera interface standards. And then there's JIIA, which has IIDC – which relates to FireWire – CoaXPress, and then some lens and lighting standards. As you can see, almost all of them are actually interface standards, and at first glance it would seem that this is a problem because our industry is so small, and if you have too many standards, then they might as well be proprietary solutions. But the fact is, they've come in at different times. Camera Link was introduced well over 10 years ago and it's probably going to have 10 years or more of lifespan, and it addressed a particular need at the time. The new standards that have come into place have addressed new needs, and what we're seeing is that our standardization work is now building on other work we have already done. And why is there a focus on interface standards in particular and not on other types of standards? I think that addressing interface standards provides the biggest return on investment for vendors and customers.

How do you know what the industry needs and when a new standard might actually provide enough benefits to become accepted?

J. Herrmann: I think it's not primarily about what the vendors would like. You should start at your market, your customers, and find out what they require. For example, we see a trend where the systems are getting faster and the standard you have is not fast enough for that. Or if you need longer cables and that's not covered by one of the other standards. The market demand is one pull, and the other is new technology popping up. So you see the new USB3, which is promising, or Light Peak or Thunderbolt, or whatever – there are so many new standards coming out of the consumer market that are driving all this work. And then you say: "Okay, this is a requirement we'd like to meet, this is the technology that makes it possible, now look at the standards we already have." And what you should ask then is: "What is the best thing to do? Should we make a new standard or should we work on an older standard and make it better?" That's basically how it normally works. You talk to other people, other camera vendors and other frame grabber vendors, and you
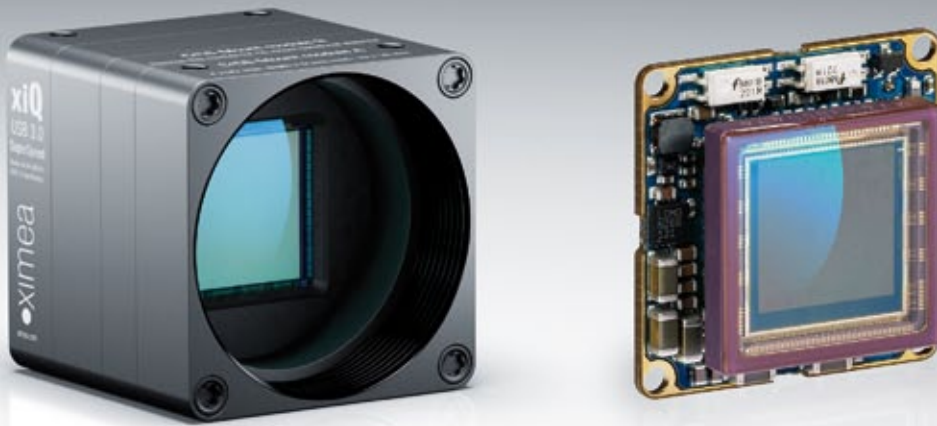
talk with customers and you try to find out: "Okay, if I do this, would it help you?" And you also know that you cannot do this all by yourself. As we have been saying before, as soon as you do something on your own, the customer will probably not accept it, so you have to find supporters. And then, typically, you start up with a small group working on it.

What can be done to make sure a standard is used on a global scale?

F. Dierks: There is the G3, an umbrella organization of the AIA, EMVA and JIIA, and they agreed to kind of market their standards on a global scale. But if you look a bit deeper, things are more complicated. What does it mean to tell people on a global scale to use a certain standard? It actually means that vendors around the globe have to be a part of the standardization, have to adopt the standards in their products and tell their customers to use them. This is a bit of a problem, because the peer group that has been doing the standardization for around the last 10 years is mainly composed of people from Europe, the US and Japan. We have two large meetings every year – typically one in Europe and one in the US. But we have had only two meetings in Japan up to now, so we are kind of Europe and US centric. What we really want to accomplish is to bring more Asian companies on board. The biggest barrier we have found is the language, because for historical reasons we started doing everything in English. And of course somebody who is culturally very far away from English might have a problem taking part in all these discussions. We have to overcome this. I think a key to getting things scaled globally is to get more Asian companies into our peer group.

It seems that the machine vision associations do a lot of the work when it comes to organization and disseminating information about the technical aspects of standardization. How can interested parties participate in standardization activities?

K.-H. Noffz: Usually these associations are open. Sometimes you need a small kernel of people to do the initial work, but these groups are open to all members and to all companies. In general, I think it's important that all interested companies have the chance to partic-

ipate in this work. These groups are driven by the vendors, so they are very close to the needs of the market. The machine vision associations then do the hosting. None of them creates content or defines standards on its own. They provide an organizational interface. There is the G3 agreement between the big trade associations in the US, Europe and Asia, which helps avoid overlapping standards and creates collaboration and consensus among those associations. And there is a "Future Standards Forum," which has a long-term outlook. So I would recommend companies to stay in close contact with the associations.

A lot of people claim that standardization work is for bureaucrats and inevitably leads to mediocrity because it results in a lot of compromises. Is it not fair to say that standards kill innovation and lead to the death of the flexibility and speed needed in our industry?

T. Nepstad: Looking at a standard is more or less like creating a piece of clothing for a specific technology. It could be a well-tailored suit or it could be a tight jacket where you cannot move at all.

If you ask very sophisticated cutting-edge companies that do new things every day, they will see a standard as a tight jacket, because it limits them from doing a lot of things. But the reality is that 70 % of customers – for instance, if we take GigE Vision – just want to take an image, set the exposure and do some very simple handling. I think creating standards that will fulfil the needs of that 70 % of the market is very useful.

With any standard, we should find out whether there is a benefit for the customer. And if there is a clear benefit, then I would say yes, it's great to use standards to cut or limit the possibilities of a specific functionality.

There are some industries using similar technologies to machine vision – just look at camera-based security or surveillance. Is machine vision working together with these industries on standardization issues?

J. Herrmann: Being able to extend your standard to other markets would in fact be a great idea. It would allow you to sell in other markets, as you would already have a product, or more or less a product. For example, a lot of people are inter-

ested in GigE Vision. We know there are some military associations, also in the US and in England, that are interested in using that. We have this with CoaXPress in the US, with the Motion Imagery Standards Board. We are also looking at ways of getting some of our standards into the security and surveillance market, because that would be a great enabler for other sales for us in that market.

The new initiative, the "Future Standards Forum," is actively looking for new possibilities. If we decide upon a certain standard, we will look to see whether it could also be a standard for other markets. So instead of finding out, "By the way, the standard would fit there as well," we would like to plan ahead, without too many overheads. Because, of course, we need the machine vision industry standard – that's the primary goal. But we'll definitely be taking a look at other opportunities and I think that's a benefit for us all.

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A European Approach

EMVA Puts Machine Vision on Future R & D Road Maps

The current situation which some of the European countries are in may lead to less funding for research projects by the national governments. Funding by the European Commission will become more important for innovative technology projects. At the Vision show in Stuttgart Bernhard Schroth talked to Antonio Ventura-Traveset, President of the European Machine Vision Association (EMVA), about how the EMVA can help members to successfully participate in future European research projects.

Antonio Ventura-Traveset

INSPECT: Mr. Ventura-Traveset the EMVA is concentrating on a new topic for the future that is supporting companies and especially SMEs, which are interested to participate in international research projects. What kinds of projects are available and attractive for machine vision companies?

A. Ventura-Traveset: Today the European Commission supports different kinds of projects. Some are more related to basic research – for example regarding new basic technologies for sensors and new optical technologies. The European Commission is now trying to move this more to the market. For this reason three years ago the European Commission created a new programme called "Factories of the Future" (FoF). The type of projects they are funding at the moment with FoF are more regarding the application of technology into new industrial areas and also the dissemination of these technologies in some sectors. They are especially interested in traditional manufacturing sectors, like automotive metal working, so this gives our own industrial sector the opportunity to participate in the kind of projects that we are used to work on. Since in any new project vision companies do a little bit of this kind of research – that means looking for the best architecture of the system, the best set up – this is something that fits very well into the "Factories of the Future" project.

What is the EMVA doing in this programme?

A. Ventura-Traveset: The European Commission and the Manufuture tech-

nology platform promoted an association called the "European Factories of the Future Research Association" (EFFRA). The main European engineering companies as well automotive industry and some automation and robot manufacturers are members of this association. Research institutes are also represented. I am representing the machine vision industry in EFFRA.

So with the help of this association the European Commission is evaluating what the hot topics and priorities are, and is also defining what is called a road map in manufacturing technologies. The first thing we are doing at the EMVA is trying to contribute to the content of the European Commission road map in order to explicitly have machine vision as a topic on it.

Is it comparable to the Framework Programme of the European Commission?

A. Ventura-Traveset: In fact „Factories of the Future" is based on the existing tool of the Seventh Framework Programme (FP7). Today we have two different programmes in FP7. The „Information and Communication Technologies Programme", called ICT. The other is NMP, which covers manufacturing technologies. You can find FoF topics in both ICT and NMP.

Currently we have a call for proposals, then there will be an evaluation process, and if you are successful with your proposal, you will have a negotiation. That means it can take a year between the presentation of the proposal and the

day when the contract is signed with the European Commission. But that is not acceptable and it is something we are discussing with the European Commission. The EMVA is especially interested in simplifying the process. However, the first thing we are doing is trying to influence the programmes. With this in mind the EMVA established a research and development working group, and one of the goals of this group is to define a road map for machine vision.

This working group started last year, and we are organising new meetings to attract more people. We also have some representatives from universities, institutes and companies in this group. Which is very important because we need to guide the European Commission by saying: "This is what we think the priorities are for our sector and what we think the priorities are for research and development projects."

What we also want is to help the EMVA standardisation groups with public funding to advance the development of standards. In fact, standardisation is one of the hot topics of today. For example, in the last call for the NMP and the ICT programmes, there are at least six topics where standardisation is a main aspect.

What is EMVA doing for the members, the companies.

A. Ventura-Traveset: First of all we provide information about the different programmes we have in Europe. We not only have the Framework Programme. We have other things like agreements be-

tween regions in Europe that finance regional projects. An example of this is an organisation called ITEA for software intensive systems. ITEA cooperates with regional governments and evaluates the projects. Once you have the ITEA stamp, saying that this is an interesting project, the country finances the part of the project for partners in that country.

Does the funding always come from the government?

A. Ventura-Traveset: In that case yes. In some cases it can be a mixture. For example, we have some initiatives in the aerospace industry where an aerospace association is co-financing, but normally funding comes from the regional governments or countries or from the European Commission. Another programme is Eurostars. It works the same way. But the funding of these projects comes from the different countries, not from the European Commission. That means the information you need to be aware of, with regards to the opportunities you have, is really complex. And this is really difficult for our members.

Every month, we send our members a report with information about these different opportunities. So our members do not need to go to the source obviously. Once you identify a programme that is interesting, then you go into detail.

Do the EMVA members have to act on their own, or can they go back to the EMVA and ask for consultancy?

A. Ventura-Traveset: We at the EMVA do not provide direct consultancy. If the company asks we can provide the names of consultancy companies that can help. We are something like a bridge between our companies and other industries and sectors. For example, if a company is looking for a partner in a specific application field, then we can build this bridge. We have contacts to other associations and then we can prepare a so called "expression of interest." And we can say: "We have this company that is looking for partners," and send this expression of interest to different associations. This works the opposite way as well. For example we can have a robotics company that is looking for a partner in a specific area of machine vision, and they can contact us. Then we can send this information to our members and say: "Okay, we have this company looking for

a partner who can do that, that and that, and these are the skills they are looking for." This is interesting because looking for research partners can be very complex for small companies.

What is the current status from your point of view? What position are you in regarding this idea of supporting research work and projects?

A. Ventura-Traveset: Today we are facing a challenge. First, we need to understand that most of the funding for research and development in Europe in the future will come from the European Commission. National governments are having some problems financing this. So as a community of companies, we need to understand that our natural partner in research and development will be the European Commission. And we are now reaching some important deadlines, because the European Commission is defining the new Framework Programme. The current one – FP7 – is ending this year.

2013 will be a preparation year, and they are defining what is called "Horizon 2020." At the moment the European Commission is asking the industry to tell them what is important.

What is the role of EMVA at this point?

A. Ventura-Traveset: It is very important that the machine vision sector will be present during this preparatory phase. We have to make sure that the European Commission understands that machine vision is a key enabling technology.

One of the goals of the European Commission is to help transform the manufacturing industry in Europe from a traditional industry to a much more knowledge-based one. That means we need manufacturing plants that are more flexible and more adaptable to the changing situation of the market, and that provide the necessary product quality, while at the same time being able to customise the products – that means mass customisation. And ultimately there are some technologies that are key technologies for that, and one of those is machine vision. Only very few technologies are able to provide this transformation from physical manufacturing to knowledge-based manufacturing the way that machine vision can. This is something we are explaining to the European Commission.

We are not only trying to influence the contents of the new Framework

Programme, but also the way this programme will be implemented. Because many member companies of the EMVA say: "Okay, these projects are very interesting, but we are a small company so just the paperwork involved in such a project is too much for us."

Do the companies fear that it costs them more money than they get back from the research project if it's funded?

A. Ventura-Traveset: Yes. But we have to understand that in this year, the European Commission will spend twice the money on manufacturing-related projects than it had the previous year, and the previous year it spent twice as much as the year before.

So there's a trend and we are talking about a lot of money. We are a knowledge-driven industry and it is very important for us to make it easier for our member companies to both generate knowledge – and this is research and development – and also to disseminate this knowledge – this is education. And with this, training, education and dissemination we want to help EMVA companies.

Just one final question: How do the EMVA members honour this initiative to go into these research projects?

A. Ventura-Traveset: This is difficult to answer. But in my opinion – and this is also the view today of the EMVA – we need a leading group in this community. We know that not all companies are interested, but if there are 20 to 25 % of companies that say "yes," we need to help the companies that are really following the path of innovation.

Mr. Ventura-Traveset, thank you very much for this interview.

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Management
Frank Grube, CEO

Foundation
1989

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Foodstuffs/Beverages, Mechanical Engineering/Line Building, Medical Technology, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Staff
101–250

Products
Cameras, Interfaces/Cables/Peripherals, Optics

Applications
Character Recognition, Digitalization, Inspection Piece Parts, Inspection Webbed Material, Part Identification, Robot Vision 2D, Robot Vision 3D

Associations
AIA, EMVA, JIIA, VDMA

Regions served
Asia, Europe, Latin America, North America, national

About Allied Vision Technologies

Founded in 1989, Allied Vision Technologies GmbH of Germany designs, produces and sells cameras and components for image processing in various applications including industrial inspection, medical imaging, scientific experimentation, security, traffic monitoring, logistics and multimedia entertainment.

A Camera for Every Application

With innovative products, superior manufacturing quality and a service-driven organization, Allied Vision Technologies is well established as a premier provider of digital camera solutions for machine vision worldwide. Its product portfolio offers one of the widest choices of high-performance cameras in the market. Black-and-white, color, high resolution, high speed or infrared: for every application there is the right AVT camera.

Thanks to the AVT modular concept, a wide range of modifications are available such as angled heads or alternative cable outlets. For even more specific applications, AVT has developed an expertise in tailor-made camera solution development.

High Quality Made in Germany… and Canada

AVT cameras are manufactured according to the highest quality standards in the company's own production facilities located in Germany and Canada. Highly skilled staff and on-going investment in the state-of-the-art facilities guarantee the best possible product quality. Every single camera leaving Allied Vision Technologies' production undergoes a thorough test including operation under high temperature conditions.

First-Class Service, Worldwide

Allied Vision Technologies is represented in more than 30 countries worldwide by a network of distribution partners selected to offer a high level of service and support locally. The company has its own sales and support offices in Germany (Stadtroda), the USA (Newburyport, MA), Canada (Burnaby, BC), Singapore and China.

///ALLIED
Vision Technologies

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J

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Rüdiger Förster, Sales and Marketing
Rainer Klug, Operations
Severino Bruno, Finance

Foundation
1952

Staff
> 2000

Products
Cameras, Frame Grabber, Lighting
Equipment, Network Components,
Optics, Software, Vision Sensors

Applications
Character Recognition, Medical Im-
aging, Metrology 2D, Part Identifica-
tion, Particle Analysis, Robot Vision

2D, Solar Cell Inspection, Surface In-
spection, Symbol Recognition, Others

Industries served
Automotive and Suppliers, Electron-
ics/Semiconductors, Energy/Water/So-
lar Technology, Foodstuffs/Beverages,
Glass/Ceramics, Mechanical Engineer-
ing/Line Building, Medical Technol-
ogy, Metal, Packaging, Paper/Wood,
Pharmaceuticals/Cosmetics/Chemicals,
Plastics, Precision Engineering/Optics/
Machine Vision, Traffic/Logistics, Other

Associations
EMVA, AIA, VDMA

Regions served
Asia, Europe, Latin America, North
America

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Passion for Sensors

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www.baumer.com

About Baumer

Baumer is one of the lead-
ing international manufac-
turers of innovative and high-
quality sensors and systems
in factory and process auto-
mation. With about 2,000 em-
ployees worldwide and 250
employees (including some
100 engineers) in the area
of industrial image process-
ing, Baumer belongs to the
leading companies in the vi-
sion industry. Our customers
benefit from internationally
comprehensive consultation
and reliable service.

Digital Imaging

Baumer offers a wide range
of industrial digital cameras
and customized OEM cam-
era modules, specifically de-
signed for demanding im-
age processing applications.
The portfolio includes matrix
cameras, with various color
and monochrome sensors.
Resolutions are available
from VGA up to 8 megapixel.
The digital cameras support
state of the art interfaces,
like Gigabit Ethernet, Dual
GigE, CameraLink and Fire-
Wire. High frame rates, ex-
ceptional image quality and
ease of integration – that's
what Baumer cameras stand

for. Their robust, industrial
design is the basis for long-
term stability and precise
image analysis.

Smart Vision

Baumer VeriSens vision sen-
sors close the gap between
traditional photoelectric sen-
sors and complex image pro-
cessing systems. The user is
provided with comprehen-
sive functions which support
numerous inspection tasks
in automated production,
like control of part complete-
ness, control of part pres-
ence, or control of part lo-
cation and identification.
VeriSens vision sensors
come with an industrial IP
67 metal housing and an in-
tuitive software for param-
eterization. High process
reliability is achieved with
Baumer's FEX image pro-
cessor.

Sensor Solutions

Top performance in auto-
mation with leading sen-
sor technology is our justi-
fied credo. The maximum
performance, optimum reli-
ability, the highest stand-
ards of safety in the mini-
mum space at a fair price
– these are the demands of
the international markets
on sensor technology for
automation. Our products
count, measure, sort and
monitor. They identify size,
position, colour, shape, de-
fects, individual objects and
much more. Your require-
ments are our challenge,
which we have fulfilled mil-
lions of times throughout
the world and daily fulfil to
the satisfaction of manifold
users.

About IDS Imaging Development Systems

Innovation in Industrial Imaging – Made in Germany

High quality USB 2.0, USB 3.0 and GigE cameras, a sophisticated and proven software and first-class support – that is IDS Imaging Development Systems GmbH.

Based in Obersulm, Germany, IDS today employs over 120 staff and is internationally represented by subsidiaries in the USA, Japan and France and through a network of distributors worldwide. About half of IDS' employees are engineers in hardware and software development as well as application engineering. Assisted by an expert sales team, they provide our customers with comprehensive service and support both before and after sales.

The success of this approach is demonstrated by the over 200,000 frame grabbers and more than 250,000 industrial USB and GigE uEye cameras that are in use worldwide today. Our customers include OEMs, system integrators and manufacturers in the industrial, security, scientific and medical industries.

Shift into Top Speed with USB 3.0 Cameras from IDS

Fast, powerful with high performance CMOS sensors and next generation USB 3.0 interface – the USB3 uEye CP camera series from IDS is a step ahead in industrial imaging and ready for today's and tomorrow's market requirements.

IDS has been the leader in industrial USB cameras for a decade. All expertise has been incorporated into the next generation uEye cameras with USB 3.0. Experience you can rely on. The USB 3 uEye CP camera already thoroughly fulfills all of todays and future requirements of the machine vision market with data transfer rates of up to 400 MByte/s and first-class high speed CMOS sensors from innovative manufacturers like e2v, CMOSIS and Aptina.

Custom-Made – Your uEye Cameras!

IDS offers over 100 different camera models; however sometimes specific applications require specific cameras. Our experienced engineers also specialize in the customization of existing and the design of brand-new models – cameras which are tailor-made for your requirements.

The uEye Software Package: It's so Easy!

IDS' well-known and sophisticated software package offers driver versions for Windows and Linux as well as software interfaces, eg. Halcon. The IDS Camera Manager is the central administration tool for all IDS uEye cameras. In addition, uEye Cockpit offers comfortable camera installation and operation. Without changing a single line of programming code, the uEye software package enables users to easily install the cameras as well as to determine the most ideal parameters for each image. As an added benefit one driver and one API (application programming interface) are enough to integrate and simultaneously operate USB 2.0, USB 3.0 and GigE cameras. This high level of interoperability and interchangeability of interfaces and hence customer benefit is only offered by IDS.

Firmware and driver updates are uploaded when initializing the cameras. There is no need to send the cameras back for updates!

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Torsten Wiesinger, CEO

Foundation
1997

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Products
Cameras with USB 2.0, USB 3.0, GigE interface, Consulting, Frame Grabber, Interfaces/Cables/Peripherals, Optics, R&D, Software

Applications
Automotive, Character Recognition, Digitalization, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Medical engineering, Metrology 2D, Metrology 3D, Part Identification, Particle Analysis, Pharmaceutical applications, Robot Vision 2D, Robot Vision 3D, Symbol Recognition, 3D Scanning, Traffic Monitoring (ITS)

Industries served
Automotive and Suppliers , Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Associations
AIA, JIIA, VDMA

Regions served
Asia, Europe, Latin America, North America, national

Companies represented
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Management
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Chairman and Managing Director

Michael Marhofer,
Chairman and Managing Director

Foundation
1969

Staff
> 5000 worldwide

Turnover 2012
Over € 610 million

Products
Accessories, Industrial Imaging, Iden-
tification Systems, Position Sensors,
Sensors for Motion Control

Applications
Character Recognition, Part Identifi-
cation, Robot Vision 2D, Solar Cell In-
spection, Surface Inspection, Symbol
Recognition

Industries served
Automotive and Suppliers, Energy/
Water/Solar Technology, Foodstuffs/
Beverages, Glass/Ceramics, Mechani-
cal Engineering/Line Building, Medical
Technology, Metal, Packaging, Paper/
Wood, Pharmaceuticals/Cosmetics/
Chemicals, Plastics, Precision Engi-
neering/Optics/Machine Vision, Traffic/
Logistics

Regions served
In more than 70 countries

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About ifm electronic

ifm electronic – Close to You!

As a leading manufacturer in the automation industry, ifm electronic gmbh continuously optimises technical processes in almost all industries.

More than 5,000 employ-ees in over 70 countries de-velop and market solutions for about 100,000 customers in machine construction and other industries.

Since 1969 the headquar-ters of the family-run me-dium-sized group has been located in Essen and devel-opment and production in the Lake Constance region. With more than 88 % of the product portfolio produced there. About 450 employees in research and development as well as close cooperation with research institutes, uni-versities and young compa-nies ensure the constantly high quality and innovative strength of the entire range of products. Consequently, in 2012 ifm achieved a turnover of € 610 million.

One of ifm's strong points is the extraordinarily broad product portfolio that does not only include standard solutions but also caters for special requirements from individual industries. In the field of identification systems

for production control and industrial imaging, ifm offers both individual units and en-tire systems for use in assem-bly, production and quality control. ifm sensors perform tasks in industrial automa-tion, e.g. distance detection, material flow control using RFID, three-dimensional de-tection of volumes or levels or object recognition and in-spection.

Thoroughly Checks Your Production – efector dualis Type O2V

efector dualis type O2V is a real highlight in object in-spection. Its strength: check-ing variable features such as size, position, shape, pres-ence or completeness of ob-jects and scenes. Whereas common vision sensors check objects on the basis of defined contours (like the object rec-ognition sensor O2D) the new O2V pixel counter compares on the basis of variable fea-tures. The stand-alone unit with integrated illumination and evaluation in a robust and industrially compatible IP 67 housing also provides a particularly user-friendly pa-rameter setting.

About Point Grey Research, Inc.

Point Grey is a world-leading designer and manufacturer of innovative, high-performance digital cameras for industrial, life science, and traffic applications. We offer a unique and comprehensive portfolio of USB 3.0, GigE, FireWire, USB 2.0 and Camera Link products known for their outstanding quality, ease of use, and unbeatable price-performance.

Innovation

At Point Grey, "innovation" is more than a tagline; it's a way of life. The synergies of a broad range of hardware, software and mechanical engineering skills under one roof allows Point Grey to successfully bring many innovative and ground-breaking products to market. This drive for innovation has led to many industry firsts, including the world's first and smallest 1394b digital camera, the world's smallest GigE camera, and the world's first USB 3.0 camera.

Product Excellence

All design, prototyping, manufacturing, testing, and packaging is done out of a state-of-the-art facility in Vancouver, Canada. These facilities include dedicated SMT lines, AOI and X-ray machines, industrial clean room, and automated test stations. The "Seal of Quality" label on each camera cannot be printed until the camera has been 100% inspected and tested. This rigorous quality testing, together with hassle-free product warranties, ensures that customers can rely on Point Grey cameras for their demanding vision applications.

Customer Care

To ensure our customers achieve maximum value from their camera systems, Point Grey offers world-class support on installation, configuration, customization and trouble shooting. Our Customer Support program includes quick response email and phone support, online user manuals, online knowledge base articles and regular firmware updates.

End-to-End Imaging

A critical component of any vision system is the speed and reliability of the imaging pipeline, from light hitting the image sensor to data reaching the host system. Point Grey Research has taken ownership of the entire pipeline, and over the last 15 years has created a diverse portfolio of digital cameras, peripheral components, and software.

- Designed and manufactored in Canada
- Global distribution network
- 165 staff worlwide
- ISO 9001:2008 registered company

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Joerg Clement
Business Development Manager –
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Foundation

1997

Staff

165

Products

Cameras

Applications

Character Recognition, Digitalization, High Speed Analysis, Inspection Piece Parts, Material Testing, Metrology 3D, Part Identification, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served

Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Associations

AIA, EMVA, JIIA, Other

Regions served

Asia, Europe, Latin America, North America

Management

Stefan Kaufmann
Executive Managing Director

Frank Drewalowski
Arni Ekholm
Yasuo Takeuchi
Nick Williams

Prof. Dr. Dr. Ernst-Günter Afting
President Board of directors:

Foundation

1963

Staff

> 5000

Products

Cameras, Lighting Equipment, Microscopes, Optical Instruments, Optics, Software, Topography

Applications

Digitalization, Inspection Piece Parts, Material Testing, Metrology 2D, Metrology 3D, Particle Analysis

Industries served

Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging

Associations

EUSPEN

Regions served

EMEA

OLYMPUS

Your Vision, Our Future

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About Olympus Europa Holding

Quality, Experience and Innovation

From Conventional Microscopy to Advanced Opto-Digital Imaging Solutions

With advances in digital photography and image processing, analysis and archiving, the scope of applications in industrial microscopy has broadened significantly. Olympus, a respected provider of microscope systems for over 80 years, offers a wide range of microscopes, accessories and software for surface observation and the quantitative analysis of microstructures. Alongside the new DSX series of opto-digital microscopes and the Lext 3D confocal metrology system, Olympus provides a variety of microscope systems for standard inspection tasks to provide an extensive product portfolio for applications in materials science.

The DSX Range – Expert Results with Minimal Training

Each member of the DSX series is intuitively controlled using a software interface. This eliminates binocular work and maximises operating simplicity, allowing every user to generate expert results with minimal experience.
The DSX100 is optimised for the inspection and analysis of industrial products and materials. Its sturdy, free-angle design negates any need to move the sample, recalibrate or adjust focus when changing the viewing angle.

The high-end, fully-automated DSX500 and DSX500i offer advanced options such as 3D analysis, without compromising ease-of-use. The DSX500i is the first industrial inverted microscope, opening up the benefits of advanced light microscopy to a wider range of analytical tasks.

The Lext OLS4000 – Advanced Surface Analysis

The examination of surface topology is a vital requirement across industry sectors with an ever-increasing demand for accuracy. The Lext OLS4000 confocal microscope provides high resolution surface analysis with superior slope detection and, since its launch, has become a valuable industry reference system in the metrology market.

Stream 1.8 – Documentation and Analysis Technology

The enhanced Olympus Stream 1.8 software provides new and improved features to help users fully optimise their workflows. Users will benefit from the advanced automation of a multiple stage location engine, extended data management and new measurement options such as Particle Distribution, Porosity, Throwing Power and Phase Analysis, providing an additional depth to the standard quantitative analysis functions.
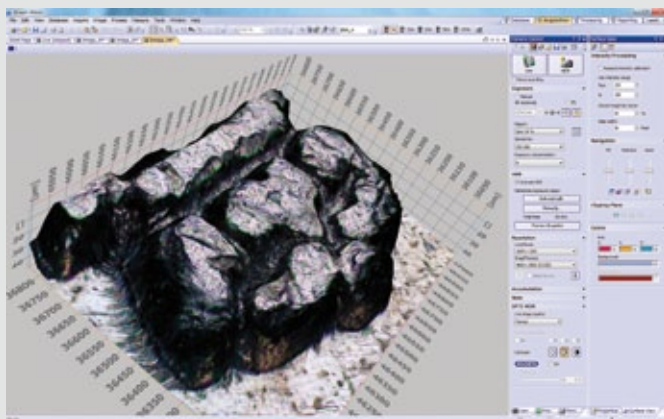
About Basler

Basler is a global provider of premium digital cameras for industrial and video surveillance applications, medical devices, and traffic systems. Our product portfolio offers customers the vision industry's widest selection of industrial and network cameras. Today it includes some 300 models – and it's still growing. Our expertise includes multiple sensor technologies and covers all important standards and promising emerging interfaces: Gigabit Ethernet, FireWire, Camera Link and USB 3.0. Product designs offer easy integration, compact size, excellent image quality, and a very strong price/performance ratio.

Founded in 1988, Basler has the experience, insight and manpower to lead the industry. The company employs around 300 people at its headquarters in Ahrensburg, Germany, as well as at international subsidiaries and offices in the U.S., Singapore, Taiwan, and Korea.

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Herfried Beckdorf, Head of European Sales

Foundation
1988

Staff
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Products
Cameras

Applications
Character Recognition, Digitalization, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Metrology 3D, Part Identifikation, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Symbol Recognition, Others

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/SolarTechnology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics , Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Platforms supported
Windows, Linux

Associations
AIA, VDMA

Regions served
Africa, Asia, Australia, Central Europe, China, EMEA, Europe, Japan, Latin America, North America

About CTR

CTR is an industry-oriented R&D centre. We help companies to optimise existing procedures and develop new solutions in the field of automated process and quality control by applying the latest technological advances of sensor systems. This leads to greater reliability, smaller designs and thus higher profitability in production. Our expertise covers the complete R&D chain – feasibility studies, conception, tests, prototyping and individual system/product solutions. CTR has been awarded over 50 patents and is also certified according to ISO 9001/2000.
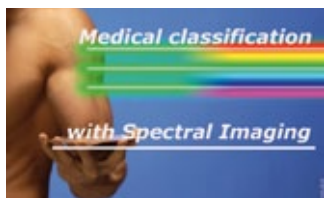
Competence

Optical sensors (x-Ray-UV–VIS–NIR–MIR-IR-THz), spectral imaging, spectroscopy, image processing, high speed raman, laser technology, terahertz spectroscopy, fluorescence spectroscopy, chemometry, statistical classification, software development, handling/automation technologies, optical simulation/design, microsystems, SAW sensor systems.

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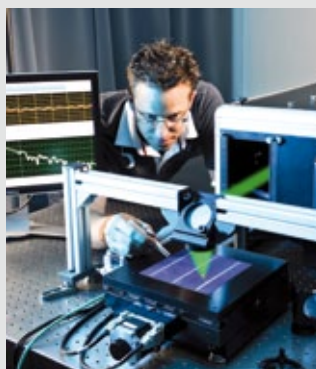
Foundation
1997

Staff
11-50

Applications
Character Recognition, High Speed Analysis, Industrial Inspection, Part Identification, Particle Analysis, Machine Vision, Cell Imaging, Industrial Sorting, Robot Vision 2D/3D, Thermography, Optical Simulation

Industries served
Life Sciences, Medical, Biomedical Science, Pharmaceuticals/Cosmetics/Chemicals, Foodstuffs/Beverages, Plastic/Paper/Wood Industry, Textile/Leather Industry …
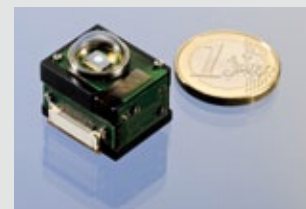
Associations
Other

Regions served
Central Europe, Europe, North America, national

About Framos

Since 30 years, Framos GmbH serves customers in the field of industrial image processing. We offer a comprehensive range of sensors, cameras and image processing components as well as development support services and complete solutions for image processing applications.

Our 30 years of experience add up to 30 years of participation in the evolution of a revolutionary new technology. The spirit of innovation and development of our early days has remained at the heart of our company and defines our three areas of business:

- Imaging Products – Components for image processing
- Engineering Support – Development support for cameras, modules and software
- Imaging Solutions – Customized image processing solutions

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See our ad on page 51

M

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info@framos.it

Framos France, France
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info@framos.fr

Management
Dr. Andreas Franz, CEO
Dr. Ronald Müller, Head of Product Marketing

Staff
11–50

Products
Cables, Cameras, Camera modules, Framegrabber, GigE converter, Image Sensors, Interfaces, Lenses, Lighting, Software & Tools

Applications
Character Recognition, High Speed Analysis, Inspection Piece Parts, Metrology 2D, Metrology 3D, Part Identification, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served
Automotive and Suppliers, Energy/Water/Solar Technology, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Associations
EMVA, VDMA, AIA, HybridSens, SwissT.net, Sensors Bavaria

Companies represented
Sony, Aptina, Pleora Technologies, Lumenera, Toshiba Teli, Smartek Vision, Visiosens, Sunex, Fujinon, Schott Moritex, Schneider Kreuznach, AlysiumTech, Pentax Ricoh, PhotonFocus, Videology, Tamron, Boulder Imaging, Pacific Corporation, Trimble, Euresys, SVS Vistek, Vision+Control, Falcon, Effilux, Norpix, VisionTools

About Fujifilm in Europe

In 2011 a merger of Fujinon (Europe) GmbH into Fujifilm Europe GmbH was carried out. Before the merger Fujinon (Europe) GmbH operated mainly in two market segments: Endoscopy Systems and Optical Devices. Over many years Fujinon had been one of the foremost pioneers in the development of optical technology. Based on continuous research, long experience and leading edge technology, Fujinon branded products provide quality of the highest standard in the world for Broadcast and Cine lenses, Binoculars, lenses for CCTV and

Machine Vision applications as well as special custom made optical products e.g. in mobile phones and automobiles. At the time of merger the Optical Devices business was established as a new European Business Domain within the Fujifilm Europe organization.

CCTV and Machine Vision Lenses

The extensive product range of Fujinon CCTV and Machine Vision lenses features the appropriate solution for almost every application.

Products
Optics

Applications
Character Recognition, High Speed Analysis, Inspection Piece Parts, Metrology 2D, Metrology 3D, Part Identification, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served
Automotive and Suppliers, Energy/Water/Solar Technology, Medical Technology, Packaging, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Regions served
Africa, Central Europe, EMEA, Europe

FUJiFILM

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Fax: +49 211 5089 8900
cctv@fujifilm.eu
www.fujifilm.eu/fujinon

See our ad on page 31

D

About the JAI Group

JAI is a global manufacturer of digital cameras for machine vision, traffic imaging, global security, medical imaging and scientific research.

Besides a broad range of leading-edge 1-CCD and 1-CMOS interlaced/progressive area scan cameras, JAI is a leading provider of multi-imager cameras incorporating advanced prism-block technology, including 3-CCD RGB area scan cameras, 2-CCD multi-spectral/HDR cameras plus a complete family of 3-CMOS/4-CCD/4-CMOS line scan cameras. JAI's product program includes cameras for visible, UV and NIR imaging with GigE Vision, Camera Link, USB 3.0 and CoaXPress interfaces.

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See the possibilities

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JAI Ltd. Japan
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camerasales.apac@jai.com

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Masao Watabe,
President of JAI Ltd. Japan
Flemming W. Maunsbach,
Group VP of Finance
Wesley Okeke, Sales Director USA
Michael S. Lund, Sales Director EMEA

Foundation
1963

Staff
101–250

Products
Cameras, Interfaces/Cables/Peripherals, Software, Other

Applications
Character Recognition, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Part Identification, Particle Analysis, Robot Vision 2D, Symbol Recognition

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Associations
AIA, EMVA, JIIA

Regions served
Africa, Asia, Australia, Central Europe, China, EMEA, Europe, Japan, Latin America, North America, national

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About Kappa optronics

Expert for Customer Series

The well-established German camera manufacturer focuses on customer-specific industrial camera solutions.

Kappa's Strong Point: Rugged Cameras

Kappa develops and manufactures rugged cameras for extreme environments.

De Novo Development

Due to its innovation capacity and profound experience Kappa is an expert partner for challenging visualization projects.

Kappa Zelos Camera Family, 5 MP up to VGA, Camera Link and GigE Vision

The Kappa Camera Line

Kappa's relatively small but distinct line of high-performance cameras also serves as a platform for economic customer-specific adaptations.

kappa K

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See our ad on page **45**   GÖ

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Management
Jürgen Haese, CEO
Karl-Heinz Bornemann, Director of Sales and Marketing
Christian Koziol, Kappa USA, Director of Sales
Andrea Tourné, Kappa France, Market Manager France

Foundation
1978

Staff
51–100

Products
Cameras, Consulting, R&D, Software, Other

Applications
Digitalization, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Part Identifikation, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Others

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Associations
AIA, EMVA, VDMA, Other

Regions served
Asia, Central Europe, China, EMEA, Europe, North America, national

About LMI Technologies Inc.

LMI Technologies Inc. (LMI) is a global leader in 3D sensor measurement technology for industrial measurement and control applications. LMI focuses on constantly evolving the user experience to deliver 3D solutions which enable end users to leverage the benefits of 3D technology for quality control, optimization, and automation in today's factories. LMI's solutions support the 3D measurement needs of many of the world's largest companies supplying equipment into industries such as aluminum casting, rubber and tire manufacturing, wood processing, automotive assembly, and roadway inspection.
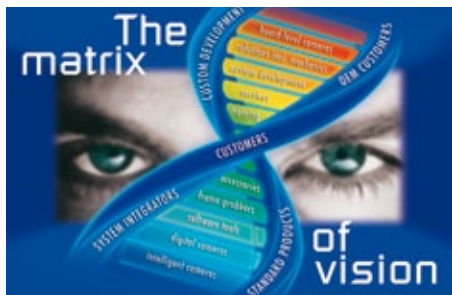
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www.lmi3d.com

See our ad on page **13**
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Tel.: +31 45 8507000
Fax: +31 45 5742500

info@lmi3d.com
www.lmi3d.com

Management
Terry Arden, CEO

Foundation
1998

Staff
51–100

Products
Vision Sensors/Smart Cameras/Embedded Systems

Applications
Character Recognition, Digitalization, Error Proofing & Gauging, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Metrology 2D, Metrology 3D, Part Identification, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Foodstuffs/Beverages, Glass/Ceramics, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision

Associations
AIA, EMVA, VDMA

Regions served
Africa, Americas, Asia and Pacific, Europe, Middle East, Russia

Companies represented
LMI Technologies

About Matrix Vision GmbH

In addition to frame grabbers, Matrix Vision offers a large spectrum of digital cameras - from USB, GigE with Power over Ethernet to intelligent cameras. A wide range of USB 3.0 cameras with CMOS sensors up to 14 megapixels will be offered with the USB3 Vision Standard. The mvImpact software provides optimal support for the hardware in applications such as measurement and OCR/OCV, as well as pattern, barcode, data matrix, object and colour recognition. With mvImpact Acquire, there is a common programming interface for digital cameras on the market.

3D cameras for static and moving objects are one of the main focuses of our current development with an impressive accuracy of up to 1 µm.

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www.matrix-vision.com

See our ad on page **49**
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info-italy@matrix-vision.com

Management
Erhard Meier,
General Manager Business
Uwe Furtner, General Manager Technic
Dietmar Unser, Sales Manager
Marcus Bleise,
International Sales Manager

Foundation
1986

Staff
51-100

Products
Digital Cameras, USB 3.0 Cameras, 3D Cameras, Frame Grabber, Lighting Equipment, Optics, Processors, R&D, Smart Cameras/Embedded Systems, Software, Vision Sensors

Applications
Digitalization, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Metrology 3D, Part Identification, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Symbol Recognition, Thermography, Others

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Associations
AIA, Symop, VDMA, Other

Regions served
Africa, Asia, Australia, Central Europe, China, EMEA, Europe, Japan, Latin America, North America, national

About Micro-Epsilon

Micro-Epsilon is a medium-sized family-run company which plays a leading role in measurement technology. For more than 40 years we have continuously offered reliable, high performance, unique solutions particularly when high precision measurement or inspection is required. Our product range covers sensors for the measurement of distance and displacement, sensors for IR temperature measurement and color detection, as well as systems for dimensional measurement and defect detection.

Innovative products that provide the very highest levels of precision are created through intensive research and development processes, unique know-how and a broad network of collaborative operations.

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See our ad on page **3**

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Foundation
1968

Staff
> 500

Products
Vision Sensors/Smart Cameras/Embedded Systems, Other

Applications
Character Recogniton, Inspection Piece Parts, Metrology 3D, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics

Associations
VDMA

Regions served
Asia, China, Europe, North America, South/Central America, national

About Opto

Opto is a leading developer and manufacturer of high-precision optomechanical inspection modules and devices, with facilities in Germany, the UK and France. Since its inception in 1980, Opto has been a provider of optical inspection and digital imaging engines to some of the world's most technologically advanced industrial and bioindustrial applications – including high-throughput cellular imaging, laser eye surgery, stent inspection, laser fault injection, and many more.

With this deep heritage in industrialised embedded microscopy and imaging, and comprehensive international manufacturing capabilities, Opto is able to deliver technically perfect optomechanical inspection solutions in serial production to the most demanding applications in machine integrated vision and inspection.

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Management
Markus Riedi, CEO
Klaus Flügel, CTO
Martin Price, Int. Sales and Business Development
Patrick Trannois, French Sales
Michael Niemeyer, German Sales

Foundation
1980

Staff
11-50

Products
Consulting, Interfaces/Cables/Peripherals, Marketing, Microscopes, Optical Instruments, Optics, R&D, Software, Turn-key Systems, Vision Sensors

Applications
High Speed Analysis, Inspection Piece Parts, Material Testing, Metrology 2D, Particle Analysis

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Precision Engineering/Optics/Machine Vision

Associations
AIA, EMVA, VDMA

Regions served
Asia, Australia, China, EMEA, Europe, Japan, Latin America, North America

About Stemmer Imaging

Stemmer Imaging is Europe's largest imaging technology and service provider with subsidiaries in Germany, United Kingdom, France, Switzerland and The Netherlands. Our customers have access to a wide variety of imaging products and solutions from the world's leading manufacturers who provide cutting edge vision technology across all product segments, including Stemmer Imaging´s independent, modular programming library for imaging applications, Common Vision Blox (www.commonvisionblox.com).

This broad range of components and solutions, our experience of more than 35 years in imaging and a comprehensive support by a staff of more than 180 employees allows us to offer you everything you need to solve your imaging task.

Stemmer Imaging – Imaging is our passion!

STEMMER (R)
IMAGING

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Fax: +49 89 80902 116
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See our ad on page **39**   (M)

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Foundation
1987

Staff
101–250

Products
Cameras, Consulting, Frame Grabber, Interfaces/Cables/Peripherals, Lighting Equipment, Optics, Processors, R&D, Smart Cameras/Embedded Systems, Software, Vision Sensors

Applications
Character Recognition, Digitalization, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Metrology 3D, Part Identification, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Symbol Recognition, Thermography, Others

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Associations
AIA, EMVA, UKIVA, VDMA

Regions served
Asia, Europe, North America, national

About SVS-Vistek

Digital High-Performance Cameras and Comprehensive Machine Vision Expertise

SVS-Vistek is one of Germany's most innovative manufacturers of industrial cameras, a reliable supplier of components for machine vision purposes, and a specialist for highly integrated imaging systems and solutions. Founded in 1987 SVS-Vistek has more than 20 years of comprehensive expertise in the machine vision market. Since 1999 the company has been developing and manufacturing its own cameras. To this day 100% of SVS-Vistek's cameras are designed and manufactured near Munich in Seefeld, Germany. The company's cameras are produced under strict quality control, assembled in clean rooms on-site and tested with state-of-the-art testing technology.

Knowledge Transfer

The three core competences of SVS-Vistek are:
- Camera development and production,
- Distribution and integration of imaging components,
- Imaging system solutions development.

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(M)

Management
Dipl.-Phys. Walter Denk, CEO
Dipl.-Ing. Ulf Weißer, CEO
Dipl.-Ing (FH) Andreas Schaarschmidt, CEO

Foundation
1987

Staff
40

Products
Cameras, Frame Grabber, Lighting Equipment, Optics, Software

Applications
Digitalization, Inspection Piece Parts, Inspection Web Material, Material Testing, Part Identification, Robot Vision 2D, Robot Vision 3D, Symbol Recognition

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Mechanical Engineering/Line Building, Medical Technology, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Traffic/Logistics

Associations
AIA, EMVA, VDMA, Bayern Photonics

Regions served
Asia and Pacific Rim, Europe, North America, South/Central America, national, ROW

About Teledyne Dalsa

Teledyne Dalsa is an international technology leader in the design, development, and manufacture of digital imaging products and solutions. In addition, Teledyne Dalsa specializes in the engineering and fabrication of semiconductor components and services. The company currently employs approximately 1,000 people world-wide with sales offices across North America, Europe and Asia which support an international distribution network serving more than 40 countries. Today, Teledyne Dalsa image sensors, cameras, frame grabbers and software are used in thousands of automated inspection systems around the world and across multiple industries.
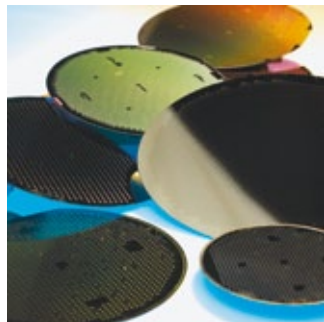
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Management
Brian Doody, CEO

Foundation
1980

Staff
501–1000

Products
Cameras, Factory Floor Automation Solutions, Frame Grabber, Processors, Software, Vision Sensors/Smart Cameras/Embedded Systems, X-ray Equipment

Applications
Character Recognition, Digitalization, High Speed Analysis, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Metrology 3D, Part Identification, Particle Analysis, Robot Vision 2D, Robot Vision 3D, Symbol Recognition, Thermography, Others

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Platforms supported
Windows/Linux/DSP,ARM/FPGA/x86/32 & 64 bit

Associations
AIA, EMVA, JIIA

Regions served
Asia, China, Europe, Latin America, North America, national

About Volpi

Volpi develops and produces fiber optic and optoelectronic systems and equipment. The two Volpi plants are situated in the center of the major European and American economic zones. In its target markets Life Science (Diagnostics, Bio-Pharma), Medical Technology, Machine Vision and Industrial Endoscopy Volpi is the strategic partner for sophisticated OEM components, high-quality standard products and private label solution.

Core Competencies: Optics, Fiber Optics, Optoelectronics, Light Emitters, High-Power LED, Thermal Management, Engineering, Contract Manufacturing

Products & Services: OEM custom illumination systems, LED illumination systems, fiber optics lighting components, LED light sources, lightlines, coaxial illumination systems, infrared illumination, lightguides, industrial endoscopes, non destructive testing (NDT), light modules, subsystems, micro endoscopes, fiber bundle endoscopes, private label products.

Volpi – Light is vision.

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Thomas Trachsler,
Director Sales & Marketing
Thomas Baumann, CFO
Dr. Scott Kittelberger, COO Volpi USA
Reinhard Jenny, CTO
Jan Hauser, Head of R&D

Foundation
1953

Staff
51-100

Products
Lighting Equipment,
Optical Instruments

Applications
Character Recognition, Inspection Piece Parts, Inspection Webbed Material, Material Testing, Metrology 2D, Part Identifikation, Particle Analysis, Symbol Recognition

Industries served
Automotive and Suppliers, Electronics/Semiconductors, Energy/Water/Solar Technology, Foodstuffs/Beverages, Glass/Ceramics, Mechanical Engineering/Line Building, Medical Technology, Metal, Packaging, Paper/Wood, Pharmaceuticals/Cosmetics/Chemicals, Plastics, Precision Engineering/Optics/Machine Vision, Traffic/Logistics, Other

Associations
AIA, EMVA, Other

Regions served
Central Europe, Europe, North America

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Fax: +41 4473 243 44
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www.volpi.ch

ZH

About Ximea

Ximea design and produce leading-edge, high-performance cameras as well as highly optimized camera and imaging solutions for volume OEM applications.

Camera designs are based on powerful, flexible camera technology platforms that include an application programming interface (API) for more than 30 of the most common Vision libraries as well as compliance with industry standards like USB3 Vision. xiAPI support Windows, Linux and OS X operating systems.

Customers can further adapt Ximea cameras by selecting specialized optics and data interfaces, while OEM customers can leverage Ximea's Custom Engineering services. This is how Ximea differentiates from the competition.

To ensure that Ximea offers the highest quality cameras at the best price, Ximea owns and operates its own engineering and production facilities in Bratislava, Slovakia. This allows us to design your solution with only the best components and to guarantee our customers the optimal compromise between performance and cost with short lead times.

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Fax: +421 2 205 104 27

Management
Dr. Vasant Desai
Max Larin

Foundation
2010 / 1992

Staff
11–50

Products

Cameras, Embedded PC-cameras, OEM Cameras, Subminiature Cameras, X-Ray

Applications
Astronomy, Character Recognition, Digitalization, Metrology 2D and 3D, Microscopy, Part Identification, Particle Analysis, Robot Vision 2D and 3D, Symbol Recognition, Others

Industries served
Automotive and Suppliers, Defense, Electronics/Semiconductors, Machine Vision, Medical Technology, Packaging, Paper/Wood, Plastics, Traffic/Logistics, Other

Associations
AIA, EMVA, VDMA, Other

Regions served
worldwide

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OS

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• Schwerin
• Hamburg HH

Bremerhaven •
• Emden
HB • Bremen

B • Berlin
Potsdam

Hanover
OS • Osnabrück
H • BS • Braunschweig
• Magdeburg MD
GT • Gütersloh

Oberhausen
Duisburg • OB • Dortmund DO
DU • Göttingen • Halle
Duesseldorf GÖ
• Leipzig
D • Dresden DD
Cologne • K • MR • Marburg EF • Erfurt • Chemnitz
Aachen • Bonn J • Jena C
AA • BN • GI • Gießen
Koblenz SHL • Suhl
KO • WI • F • Frankfurt WÜ • Würzburg
Wiesbaden • MZ • Darmstadt
Mainz DA
N • Nuremberg
MA
Saarbruecken • Mannheim R • Regensburg
KA • HN • Heilbronn
Karlsruhe Passau
PF • Pforzheim PA
S • Stuttgart L • Linz
OG • Offenburg GP • Göppingen Vienna
TÜ • Tübingen A • Augsburg V
M • Munich • Baden
FR • Freiburg
KN • Ravensburg • Salzburg
Konstanz RV • Kufstein
Zurich SG • G • Graz
Basel ZH • St. Gallen FK • Feldkirch
Neuchâtel BE • Lucerne Vaduz • Innsbruck
Bern KL • Klagenfurt
Schwyz VI •
VD • Lausanne Davos Lienz • • Villach
Geneva Zermatt Locarno

• Como

Producer, Solution Provider

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KN

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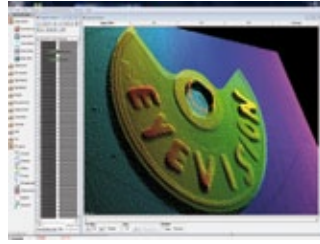
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HRO

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ZH

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HH

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GI

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F

Research Facility

The department of optical technologies and machine vision ("Optotechnik und Bildverarbeitung") is part of the faculty of mathematics and natural sciences at Darmstadt University of Applied Sciences ("Hochschule Darmstadt"). The joint experience of 12 professors from various fields of optics, laser technology, image processing and optical metrology provides the background for profound work on cutting-edge research projects and an outstanding commitment to a modern study program, integrating optical technologies and machine vision.

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B

Producer, Solution Provider

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PA

Integrator

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HH

Integrator, Solution Provider

ICW [industrie-elektronik] · Engelschalkstr. 32, 86316 Friedberg, Germany,
Tel.: +49 821 6099526, Fax: +49 821 6099531, anfrage@icw-news.de, www.icw-news.de

A

Producer

Lumimax LED lighting is specially designed and developed for use in industrial measurement and checking techniques. Our focus is on excellent quality, performance and functionality. A young team of highly qualified engineers, technicians and skilled tradesmen continually strive to find innovative solutions to be able to offer the optimal lighting for every image processing application. More than 60 basic light types for Machine Vision are available in approximately 4000 versions — as static or as flash lights in different dimensions and colours. Additional components such as diffusers, fresnel lenses and polarisation filters also belong to our range. Should you not be able to find the right component for your application, we will develop industrial LED lighting systems for Machine Vision especially suited to your requirements.

LUMIMAX®

iiM AG
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98527 Suhl
Germany
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info@iimag.de
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SHL

Producer

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F

Integrator

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KN

Integrator

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DO

Solution Provider

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A

Producer

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GÖ

Producer

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S

Solution Provider

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M

Integrator, Solution Provider

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KN

Producer

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N

Distributor, Producer, Solution Provider

IS – Imaging Solutions GmbH · Arbachtalstrasse 6, 72800 Eningen, Germany,
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TÜ

Solution Provider

The Isra group develops, produces and markets intelligent systems for industrial image processing using application-specific modular standard software solutions for surface inspection, robot guidance and quality control. Isra has focused on the automotive, general industries and food & packaging markets and offers surface inspection solutions for the glass, display glass, solar industry, plastics, films, nonwovens, print, printed electronics, paper, specialty paper and metal markets.

Isra Vision AG · Industriestr. 14, 64297 Darmstadt, Germany,
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DA

Integrator

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FR

Producer

JAI is a global manufacturer of digital cameras for machine vision, traffic imaging, global security, medical imaging and scientific research. Besides a broad range of leading-edge 1-CCD and 1-CMOS interlaced/progressive area scan cameras, JAI is a leading provider of multi-imager cameras including 3-CCD RGB area scan cameras, 2-CCD multi-spectral/HDR cameras plus a complete family of 3-CMOS/4-CCD/4-CMOS line scan cameras.

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DA

Integrator, Machine Builder/OEM, Solution Provider

Jenoptik Optical Systems GmbH · Goeschwitzer Strasse 25, 07745 Jena, Germany,
Tel.: +49 3641 65 3083, digitalimaging.os@jenoptik.com, www.jenoptik.com/digitalimaging
J

Producer

Jenoptik Polymer Systems GmbH · Am Sandberg 2, 07819 Triptis, Germany,
Tel.: +49 36482 45 0, Fax: +49 36482 45 111, sales-oes.os@jenoptik.com, www.jenoptik.com/oes
J

Producer

Jos. Schneider Optische Werke GmbH develops, manufactures and distributes optical and mechanical precision components, filters and assemblies for Machine Vision and other image processing applications. These premium optics solutions help system integrators and machine builders improve their image processing systems. Product portfolio: C-Mount lenses, Macro lenses, Zoom lenses, Telecentric lenses, Motorized lenses, VIS- SWIR- NIR- MIR-lenses, Industrial Filters, Illumination, Measurement equipment

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KO

Producer

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DD

Integrator, Solution Provider

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DU

Producer

Leistungselektronik Jena GmbH (LEJ), this is more than 25 years of continuous research, product development and production in the field of electronic power supplies for gas discharge lamps, lamp housings and complete light sources also based on high power LED's. Additionally a selection of Xenon flashers in different versions is part of the product range. The products are used in industrial applications as microscopy, machine vision, research and education, analytical products and solar simulation. For optimum profit of our customers all devices could be tailored to adapt to their systems.

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Tel.: +49 3641 3530 0
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www.lej.de   **J**

Producer

Mikrotron GmbH develops, produces, and markets digital high-speed cameras, image processing components, and high-speed recording systems for industry, research and development worldwide. As a specialist for industrial image processing, Mikrotron also markets industrial cameras of leading manufacturers, as well as image processing software in Germany.

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Producer

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Distributor, Producer

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Producer

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Producer

Leuze electronic · In der Braike 1, 73277 Owen/Teck, Germany,
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Integrator, Research Facility, Solution Provider

Math & Tech Engineering GmbH · Robert-Bosch-Str. 6/1, 72654 Neckartenzlingen, Germany,
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Distributor

MaxxVision is one of the leading value added distributors in the field of industrial machine vision in Germany. With a wide array of products in cameras, 360° view optics, telecentric lenses, illuminations, FPGA processing systems and customized solutions we serve all needs and requirements in machine vision. Our ISO certified company delivers the components for all kind of machine vision solutions. The products are applied in sophisticated applications like automatic identification, industrial production, quality control, logistics, electronic control, science, video surveillance etc.

MaxxVision GmbH · Sigmaringer Str.121, 70567 Stuttgart, Germany,
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Distributor

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Distributor, Producer, Solution Provider

Micro-Epsilon Eltrotec GmbH · Heinkelstr. 2, 73066 Uhlingen, Germany,
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Producer

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Producer

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Tel.: +49 2137 102 0, Fax: +49 2137 102 301, info@mitutoyo.de, www.mitutoyo.de   **D**

Producer

Moeller-Wedel Optical GmbH · Rosengarten 10, 22880 Wedel, Germany,
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Producer

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Producer

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Integrator, Producer, Solution Provider

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Producer

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Solution Provider

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Distributor, Producer

NET GmbH is a manufacturer of high quality CCD and CMOS cameras for imaging solutions. The product line includes industrial and OEM board level cameras for a wide variety of applications in the industrial and medical field. The extensive range of vision cameras contains different interfaces like FOculus (IEEE1394), GimaGO (GigE), as well as iCube (USB 2.0). NET offers an extensive range of board level cameras and camera heads as well as customized solutions. Lenses, illumination and cable assemblies are offered as well.

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Producer, Solution Provider

NeuroCheck GmbH · Neckarstr. 76/1, 71686 Remseck, Germany,
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Machine Builder/OEM

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Producer

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F

Solution Provider

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PF

Integrator

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HN

Producer

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RV

Producer

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M

Machine Builder/OEM

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KA

Producer

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B

Producer

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OG

Producer

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Tel.: +49 3641 67150, Fax: +49 3641 671515, info@otto-jena.de, www.otto-jena.de

J

High quality electronic and electromechanical components, automation solutions only experience can provide and that "extra" service and support are what characterize Panasonic Electric Works Europe AG. Our emphasis on service is underlined by over 100 employees at our technology centers

Producer, Solution Provider

in Holzkirchen, Karlsruhe (founded 2008) and Gera as well as numerous sales offices around Germany.

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M

Producer

Panasonic Corporation is one of the World's largest manufacturers of consumer electronics. Panasonic Systems Communications Company (PSCEU) as a group member of the Panasonic Co. uses this expertise in digital AV systems. Its Industrial and Medical Vision department offers a comprehensive range of micro cameras and block module cameras which achieve purest color reproduction, impressive accuracy and extremely high resolution suitable for applications including medical, industrial, live science and broadcast.
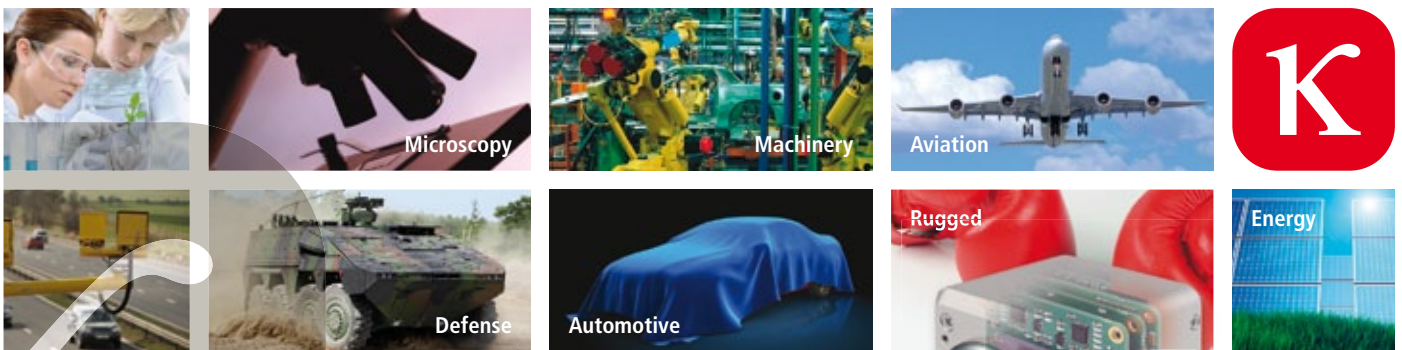
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info.medicalvision@eu.panasonic.com
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HH

Machine Builder/OEM

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Producer

In 1987, PCO AG was founded with the objective to develop and to produce specialized fast and sensitive video camera systems, mainly for scientific applications. Meanwhile the product range of PCO cameras covers digital camera systems with high dynamic range, high resolution, high speed and low noise, which are sold in the scientific and industrial market all over the world. PCO is one of the leading manufacturers of scientific cameras. The wide range of specialized camera systems is the result of technical challenge and product specific know-how.

PCO AG · Donaupark 11, 93309 Kelheim, Germany, Tel.: +49 9441 2005 0, Fax: +49 9441 2005 20, info@pco.de, www.pco.de **R**

Producer

Pentax Ricoh of Japan is proud of the respect it's products have gained over 60 years of high quality manufacturing. All Pentax CCTV lenses are developed with a focus on quality and performance and designed for a long service-free life. This is achieved by using modern technology in conjunction with precision manufacturing. In 2012 for the first time Ricoh is introducing FA Cameras. These cameras are extremely compact, robust and suitable for almost all applications in the field of industrial image processing.

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Fax: +49 40 561 92 334
bondzio.jens@prde.pentax.de
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Solution Provider

Pharmacontrol Electronic GmbH · Gernsheimer Str. 2, 64673 Zwingenberg, Germany, Tel.: +49 6251 8545 0, Fax: +49 6251 8545 111, info@pharmacontrol.de, info@pharmacontrol.de **DA**

Producer

Photonfocus AG is a leading developer and manufacturer of high performance CMOS image sensor and camera technologies for the machine vision industry. Based on leading-edge, proprietary sensor designs, our products feature extremely high frame rates, high dynamic and extensive programmability for use in many industrial vision applications. Additional Photonfocus offers customized sensor and camera solutions and provides design-in support in vision system design.

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Producer, Solution Provider

Phytec Messtechnik GmbH · Robert-Koch-Str. 39, 55129 Mainz, Germany, Tel.: +49 6131 9221 0, Fax: +49 6131 9221 33, info@phytec.de, www.phytec.de **MZ**

Integrator, Solution Provider

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Consultant, Distributor, Producer, Solution Provider

Plasmo Industrietechnik GmbH · Dresdner Str. 81-85, 1200 Vienna, Austria, Tel.: +43 1 236 2607 0, Fax: +43 1 236 2607 99, sales@plasmo.eu, www.plasmo.eu **V**

Producer

POG Präzisionsoptik Gera · Gewerbepark Keplerstr. 35, 07549 Gera, Germany, Tel.: +49 365 77393 0, Fax: +49 365 77393 29, info@pog.eu, www.pog.eu **J**

Producer

Point Grey is a world-leading designer and manufacturer of innovative, high-performance digital cameras for industrial, life science, and traffic applications. We offer a unique and comprehensive portfolio of USB 3.0, GigE, FireWire, USB 2.0 and Camera Link products known for their outstanding quality, ease of use, and unbeatable price-performance. Founded in 1997, Point Grey is based out of Richmond, Canada where the synergies of a broad range of hardware, software and mechanical engineering skills under one roof has allowed Point Grey to successfully bring many innovative and ground-breaking products to market. This drive for innovation has led to many industry firsts, including the world's first and smallest 1394b digital camera, the smallest GigE camera, and the first USB 3.0 machine vision camera.

POINT GREY

Point Grey Research GmbH
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Germany
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Fax: +49 7141 488817 99
eu-sales@ptgrey.com
www.ptgrey.com **S**

Distributor

With more than 15 years experience in the machine vision market, Polytec has grown to be one of the major suppliers for components and instruments in German-speaking Europe. Today Polytec offers the full range of machine vision hardware and provides application and feasibility studies to solve complex illumination and image acquisition problems. Beyond that Polytec produces and sells worldwide a broad range of industrial LED lighting components and stroboscopes.

Polytec GmbH · Polytec-Platz 1-7, 76337 Waldbronn, Germany, Tel.: +49 7243 604 180, Fax: +49 7243 699 44, bv@polytec.de, www.polytec.de **KA**

Producer

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Producer, Research Facility, Solution Provider

Profactor GmbH · Am Stadtgut A2, 4407 Steyr, Austria, Tel.: +43 7252 885 0, Fax: +43 7252 885 101, maria.fuehrlinger@profactor.at, www.profactor.at **L**

Producer, Solution Provider

Proxitronic Industries AG · Robert-Bosch-Str. 32b, 64625 Bensheim, Germany, Tel.: +49 6251 1703 0, Fax: +49 6251 1703 90, imaging@proxitronic.com, www.proxitronic.com **DA**

Producer

Qioptiq designs and manufactures photonic products and solutions that serve a wide range of markets and applications in the areas of industrial manufacturing, medical and life sciences, research and development, defense and aerospace. The company is known for its high-quality standard components, products and instruments, its custom modules and assemblies, its leading-edge innovation, its precision manufacturing and its responsive global resourcing.

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Solution Provider

Quiss provides a wide selection of innovative systems for various inspection tasks in the fields of adhesive and sealant application, position detection and robot guidance as well as in the manufacture of metal packaging. Quiss systems detect and prevent manufacturing errors with utmost reliability, indicate weak points and help achieve continuous improvement in the production process. We are proud to serve our customers now for two decades in the area of industrial image processing.

Quiss GmbH · Lilienthalstr. 5, 82178 Puchheim, Germany,
Tel.: +49 89 894 590, Fax: +49 89 894 111, info@quiss.com, www.quiss.com **(M)**

Distributor

Rauscher GmbH is a leading distributor for all imaging components, including software, area- and linescan cameras, frame grabbers, image-processing boards, smart cameras, embedded systems, optics, lighting and accessories.Rauscher GmbH combines distribution with high engineering competence. This enables all customers to efficiently develop and market their vision system.

Rauscher GmbH · Johann-G.-Gutenberg-Str. 20, 82140 Olching, Germany,
Tel.: +49 8142 448 41 0, Fax: +49 8142 448 41 90, info@rauscher.de, www.rauscher.de **(M)**

Integrator, Machine Builder/OEM, Solution Provider

RBC robotics · Werner von Siemens Str. 3, 65520 Bad Camberg, Germany,
Tel.: +49 6434 4733, info@rbc-robotics.de, www.rbc-robotics.de **(WI)**

Producer

Rheintacho Messtechnik GmbH · Waltershofener Strasse 1, 79111 Freiburg, Germany,
Tel.: +49 761 4513 0, Fax: +49 761 445274, info@rheintacho.de, www.rheintacho.com **(FR)**

Integrator

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Distributor

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Solution Provider

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Distributor

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Producer

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Distributor, Integrator, Solution Provider

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Producer

Schott AG Lighting and Imaging · Otto-Schott-Strasse 2, 55127 Mainz, Germany,
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Machine Builder/OEM, Solution Provider

Seidenader Vision GmbH has been developing and selling customized vision solutions, inspection systems and vision processors for all fields of industrial in-process quality inspection for more than 20 years. The code reading and code verification solutions of Seidenader Vision provide a reliable basis for traceability of pharmaceutical products.

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Producer

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Producer

Sensor to Image GmbH · Lechtorstr. 20, 86956 Schongau, Germany, Tel.: +49 8861 2369 0,
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Integrator, Solution Provider

Seritec GmbH · Gottlieb-Keim-Str. 60, 95448 Bayreuth, Germany,
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Machine Builder/OEM

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Producer

Shape Drive GmbH · Bindingstr. 11, 82131 Stockdorf, Germany,
Tel.: +49 89 45461246, info@shape-drive.com, www.shape-drive.com **(M)**

Producer

Sharp Microelectronics Europe · Sonninstr. 3, 20097 Hamburg, Germany,
Tel.: +49 40 2376 0, Fax: +49 40 2376 2510, info.sme@sharp.eu, www.sharpsme.com **(HH)**

Producer

Sick is one of the world leading suppliers of Industrial Sensors and Safety solutions. Sick provides industrial vision cameras for factory and logistics automation. The product line includes Vision Sensors, Smart Cameras, Code readers, Accessories and Cameras for high speed 3D Machine Vision. Target customers are Machine Builders, System Integrators and End Users.

Sick AG · Erwin-Sick-Str. 1, 79183 Waldkirch, Germany,
Tel.: +49 7681 202 0, Fax: +49 7681 202 3863, bildverarbeitung@sick.de, www.sick.com

FR

Producer

Distinct coding of products or parts of products is a key requirement of modern production processes. With our stationary and handheld code reading systems we offer just the right products for reading and verification of 1-D and 2-D codes, such as bar codes and data matrix codes, as well as optical character recognition (OCR). This allows tracking and tracing of production batches along the entire production process and beyond. Application-specific machine vision tasks can be optimally solved with our vision sensors.

Siemens AG · Gleiwitzer Str. 555, 90475 Nürnberg, Germany,
Tel.: +49 911 895 0, Fax: +49 911 895 2132, info.rfid@siemens.com, www.siemens.de/ident

N

Solution Provider

Signum Computer GmbH · Rüdesheimer Str. 21, 80686 München, Germany,
Tel.: +49 89 5470550, Fax: +49 89 574583, sales@signum-vision.de, www.signum-vision.de

M

Producer

Silicon Software is one of the international technology leaders with innovative product lines for industrial applications in machine vision and service provider for customized adaptations. The company produces off-the-shelf products as well as customized OEM solutions. Base products are the series of intelligent image acquisition and processing boards, supporting PCI, PCI Express with Camera Link, PoCL, PoCL lite, GigE Vision as well as CoaXPress and Camera Link HS. The programmability of the on-board vision processor allows to realize a broad range of real-time applications.

Silicon Software GmbH · Steubenstraße 46, 68163 Mannheim, Germany, Tel.: +49 621 7895070, Fax: +49 621 789507 10, info@silicon-software.de, www.silicon-software.com

MA

Producer

Sill Optics GmbH & Co. KG · Johann-Höllfritsch-Str. 13, 90530 Wendelstein, Germany,
Tel.: +49 9129 9023 0, Fax: +49 9129 9023 23, info@silloptics.de, www.silloptics.de

N

Solution Provider

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Tel.: +49 9201 91 742 0, Fax: +49 9201 91 742 80, info@simon-ibv.de, www.simavis.de

N

Producer, Solution Provider

Slomotec, Dr. Frank Gabler · Grimmelshausenstr. 14, 63628 Bad Soden-Salmünster, Germany,
Tel.: +49 6056 9836 674, Fax: +49 6056 2097 529, info@slomotec.de, www.slomotec.de

F

Producer, Solution Provider

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M

Integrator, Solution Provider

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S

Producer

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H

Producer

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M

Machine Builder/OEM

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GP

Integrator

Stöhrmann Systemtechnik · Im Erlenwäldele 21, 77955 Ettenheim, Germany,
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OG

Producer

Stratec Control Systems · Ankerstraße 73, 75203 Königsbach-Stein, Germany,
Tel.: +49 7232 4006 0, Fax: +49 7232 4006 25, info@bbull.com, www.bbull.com

PF

Producer

STZ Qualitaetssicherung & Bildverarbeitung · Werner-von-Siemens-Str. 12, 98693 Ilmenau, , Germany, Tel.: +49 3677 208066, Fax: +49 3677 208067, stz@stz-ilmenau.de, www.stz-ilmenau.de

SHL

Producer

SynView GmbH · Hessenring 83, 61348 Bad Homburg, Germany,
Tel.: +49 6172 38800 0, Fax: +49 6172 38800 10, info@synview.com, www.synview.com

F

Producer

Tamron is a global optical manufacturer that develops superior products to a variety of industrial fields for many years. Our Factory Automation/Machine Vision fixed focal length lenses incorporate advanced technologies in compact design to deliver high quality even in close focus distances, providing solutions in a wide range of applications. We newly developed four models of fixed focal length lenses compatible with 2/3" 6-Mega-Pixel machine vision cameras to accommodate our customer's request.

TAMRON
New eyes for industry

Tamron Europe GmbH
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K

Producer

Teledyne Dalsa is an international technology leader in the design, development, and manufacture of digital imaging products and solutions. In addition, Teledyne Dalsa specializes in the engineering and fabrication of semiconductor components and services. The company employs approximately 1,000 people world-wide with sales offices across North America as well as in Europe and Asia supporting an international distribution network. Today, Teledyne Dalsa image sensors, cameras, frame grabbers and software are used in thousands of automated inspection systems around the world and across multiple industries.

TELEDYNE DALSA
Everywhere**you**look

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M

Solution Provider

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KO

Producer

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HB

Producer, Solution Provider

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(N)

Producer

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(A)

Producer

TriDiCam GmbH · Finkenstr. 61, 47057 Duisburg, Germany,
Tel.: +49 204 3783 2937, jochen.noell@tridicam.de, www.TriDiCam.de

(DU)

Producer, Solution Provider

unique vision is a spin-off of ibea (limited liability company) and is a system manu-facturer. unique vision likes to continue the tradition of compact instruments of ibea, develops and brings these systems to per-fection as in hardware and software. The goal is a smart system with every neces-sary element, modular and high-duty with a high ease of use without any limitations.
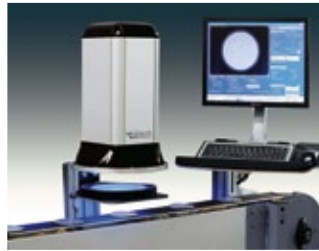
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(HH)

Producer

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Producer

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(C)

Distributor

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(KN)

Machine Builder/OEM, Solution Provider

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(TÜ)

Producer

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(SHL)

Consultant, Other

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(EF)

Producer

Vision Components is a leading developer of machine vision technology, focusing on the manufacture and distribution of intelligent cameras for industrial use. With strategic partnerships with many key integrators and software providers, Vision Components offers a complete line of advanced industrial smart cameras for an array of applications. Product line includes single board OEM, miniature and standard Smart Cameras.

Vision Components GmbH · Ottostr. 2, 76275 Ettlingen, Germany, Tel.: +49 7243 2167 0, Fax: +49 7243 2167 11, sales@vision-components.com, www.vision-components.com **(KA)**

Producer

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Producer

Vision Research designs and manufactures high-speed digital imaging systems used in applications including defense, automotive, engineering, science, medical research, industrial manufacturing, sports, and digital cinematography for television and movie production. Marketed under the Phantom brand, Vision Research digital high-speed cameras add a new dimension to the sense of sight, allowing users to see details of an event when it's too fast to see, and too important not to.

ViSiON RESEARCH

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Solution Provider

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Consultant

Vision Ventures is an independent, internationally operating boutique M&A advisory that focuses on SMEs active in machine vision and optical technologies. Our services cover strategy consulting, identification and improvement of value drivers — especially in preparation of company transactions -, market-based enterprise valuation and the end-to-end management of sell-side and buy-side M&A. For investors we also provide expert opinions on enterprise value, business plan and market environment.

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Producer

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Integrator, Solution Provider

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Distributor

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Producer, Solution Provider

Since 1984 machine vision specialist Vitronic in Wiesbaden, Germany aims to contribute to the success of its customers. From qualitative surface inspections to three-dimensional weld seam inspections and 3D Robot Vision, Vitronic assists in optimizing production processes. All inspection solutions are individually tailored to the customers' needs. Hardware and software naturally originate from one source, the highest service quality is ensured. Vitronic is active in various industries, among them automotive, medical and pharmaceuticals, packaging and photovoltaics. Due to its pioneering efforts and permanent investments in research and development, Vitronic is one of the leading machine vision companies worldwide.

VITRONIC
machine vision people

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Distributor, Integrator, Producer, Solution Provider

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Solution Provider

VMT Vision Machine Technic Bildverarbeitungssysteme GmbH · Mallaustr. 50-56, 68219 Mannheim, Germany, Tel.: +49 621 84250 0, info@vmt-gmbh.com, www.vmt-gmbh.com **(MA)**

Producer

VRmagic offers a wide range of components for industrial image processing. The product portfolio extends from intelligent cameras with Linux operating system through multi-sensor cameras with up to four synchronized remote sensors to USB cameras with small dimensions. The portfolio includes cameras with various CCD and CMOS sensors with rolling or global shutter, and with resolutions from VGA to 4.2 megapixels. The range of products is completed by analog-digital converters and 3D area sensors.

VRmagic

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Germany
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Fax: +49 621 400 416 99
info.imaging@vrmagic.com
www.vrmagic-imaging.com **(MA)**

Integrator, Solution Provider

Weber Systemtechnik · Hans-Sachs-Str. 10, 35576 Wetzlar, Germany, Tel.: +49 6441 37804 0, info@wesys.de, www.wesys.de **(GI)**

Distributor, Integrator, Solution Provider

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Producer

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KN

Machine Builder/OEM, Solution Provider

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WÜ

Producer

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GI

Solution Provider

Wickon Hightech GmbH · Grieboer Dorfstraße 16B, 06886 Luth. Wittenberg, , Germany,
Tel.: +49 2131 20 199 0, vertrieb@wickon.com, www.wickon.com

MD

Solution Provider

Wolf Systeme AG · Südweg 3, 75245 Neulingen, Germany,
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PF

Producer

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ON

Machine Builder/OEM

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H

Integrator, Solution Provider

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AA

Producer

Z-Laser Optoelektronik GmbH · Merzhauser Str. 134, 79100 Freiburg, Germany,
Tel.: +49 761 2964444, Fax: +49 761 2964445, info@z-laser.de, www.z-laser.com

FR

Producer

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◌ **MADEIRA**

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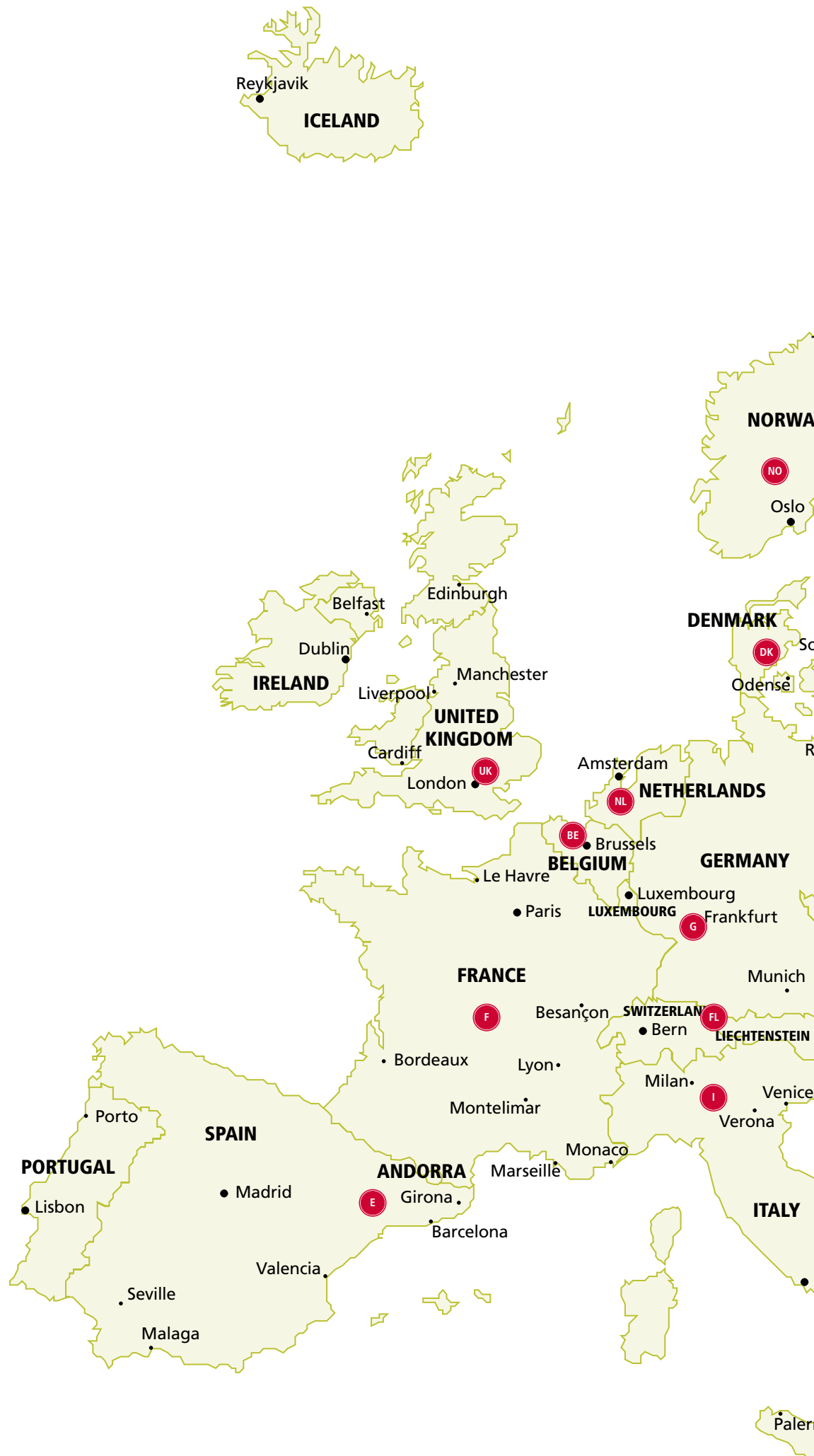
Producer

Active Silicon specialises in the design, manufacture and supply of digital imaging products and custom vision systems. Frame grabbers include the Phoenix, LFG and Snapper boards in PCI Express, COM Express, PCI, PMC, cPCI and PCI/104-Express form factors with support for Windows, DOS, Mac, OS X, Linux, QNX and VxWorks platforms. These provide acquisition solutions for a wide range of applications supporting analogue, CoaXPress, LVDS, HD-SDI and Camera Link (including PoCL) cameras.

Active Silicon Ltd · Pinewood Mews, Bond Close, SL0 0NA Iver, United Kingdom, Tel.: +44 1753 650600, Fax: +44 1753 651661, info@activesilicon.com, www.activesilicon.com — **UK**

Producer

Adimec designs and manufactures high-performance industrial cameras for equipment manufacturers worldwide with demanding machine vision, medical, or military applications whose goal is to be a product leader in their market. The Netherlands-based Holding company has business offices in Europe, the United States, Japan, and Singapore. Adimec cameras use high quality CCD and CMOS sensor technologies and support a range of interfaces such as CameraLink, GigE, CoaXPress, LVDS, HD-SDI, DVI or custom.

Adimec · Luchthavenweg 91, 5657 EA Eindhoven, Netherlands, Tel.: +31 40 2353900, SalesEU@adimec.com, www.adimec.com — **NL**

Solution Provider

Alliance Vision · 7 avenue du Meyrol, 26270 Montelimar, France, Tel.: +33 4 75 53 14 00, Fax: +33 4 75 53 14 04, infos@alliancevision.com, www.alliancevision.com — **F**

Producer

AnaFocus is specialized in the design and production of custom high-speed, high-performance CMOS camera systems on-chip (camera SoC) and vision systems on-chip (VSoC) for industrial, surveillance, scientific, and medical applications.Additionally, AnaFocus develops and commercializes a catalogue of standard products consisting of high-performance CMOS single-chip solutions for imaging and vision.

AnaFocus · Avda. Isaac Newton, 4, 7th floor, attic, 41092 Seville, Spain, Tel.: +34 954 081273, Fax: +34 954 081242, rafael.romay@anafocus.com, www.anafocus.com — **E**

Producer

Andor Technology · 7 Millenium Way, BT12 7AL Belfast, United Kingdom, Tel.: +800 9027 0899, marketing@andor.com, www.andor.com — **UK**

Distributor, Solution Provider

Applied Scintillation Technologies · 8 Roydonbury Industrial Estate, CM19 5BZ Harlow, United Kingdom, Tel.: +44 1279 641234, sales@appscintech.com, www.appscintech.com — **UK**

Producer, Solution Provider

Aqsense develops and commercializes 3D point cloud acquisition and processing libraries that allow high speed in-line 100% production inspection for the Machine Vision Industry. Our customers are Machine Builders and System Integration companies focused on production and quality systems for a wide range of sectors like medical, automotive, food, dental, industrial or electronics.Our standard product is SAL3D, the 3D Shape Analysis Library, which is a comprehensive set of tools for acquiring and processing Clouds Of Points from different standard sources such as laser triangulation, stereo vision and time of flight among others.Based on our experience, Aqsense provides customized applications and engineering solutions which are supported with training and seminars. Feasibility studies for 3D integration include the evaluation of cameras, lasers and hardware configuration.Aqsense's industry offering puts special emphasis on how SAL3D offers an easy support to approach 3D applications. The combination of SAL3D with existing 2D libraries can help finding solutions not doable in 2D only.

Aqsense S.L.
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Spain
Tel.: +34 972 183 215
Fax: +34 972 487 487
info@aqsense.com
www.aqsense.com/ — **E**

Distributor

Baumer has established itself as the leading company for vision technologies. Its wide range of digital cameras, vision sensors and further image processing products with cutting edge technologies provides highest quality for industrial, scientific and medical applications. Next to vision products Baumer is known as the premier innovator for precision sensors, motion control, identification solutions, gluing systems and process instrumentation for the automation market.

Baumer
Passion for Sensors

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Fax: +39 0 245706211
sales.it@baumer.com
www.baumer.com — **I**

Producer

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Producer

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The world's highest standard of LED Lighting Technology. Let our expertise work for you.

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CCS Lighting Solution is the world's highest standard of LED lighting technology. Let our expertise work for you! CCS provides high-added-value LED lighting that makes optimum use of our unique control, focus and heat dissipation technology. Lighting from CCS is widely used in machine vision, microscopy and Bio-medical. The key to success in these markets lies in the lighting technology. CCS proposes the most suitable solutions from a rich standard and a vast custom product lineup.

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1600 Sint-Pieters-Leeuw
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Fax: +32 2 333 00 81
info@ccseu.com
www.ccs-grp.com — **BE**

Producer

Image sensor design and production.

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Producer

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Distributor

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Distributor, Producer, Solution Provider

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Solution Provider

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Producer

e2v is designer and manufacturer of high tech electronic components and subsystems including semiconductors, sensors and electronic tubes.e2v supplies high performance CCD and CMOS imaging sensors and cameras for a broad range of demanding applications, operating across the electro-magnetic spectrum from X-rays, through ultraviolet and visible light to infrared.Delivered to standard or highly customized designs, our sensors serve space, astronomy, dental, scientific, medical and industrial markets.

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Integrator

We are well known in Turkey as a Hi-Tech vision system designer with robot integration.

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Producer

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Association

The EMVA has more than 114 members representing 20 nations. Its aim is to promote the development and use of machine vision technology and to support the interests of its members – machine vision companies, research institutions and national machine vision associations. EMVA focuses on standardization, statistics, the annual EMVA Business Conference and other networking events, public relations and marketing.

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Producer

Euresys is a major player in the field of machine vision, developing and marketing high-performance products and services for image acquisition and vision-oriented analysis. For industrial machine vision applications, Euresys offers a wide series of frame grabbers for digital and analog image acquisition. Established in 1989, Euresys has built on a strong experience in machine vision and video surveillance, offering dedicated and efficient solutions for OEMs.

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Solution Provider · SLO

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Machine Builder/OEM · F

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Producer · DK

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Integrator, Solution Provider · E

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Solution Provider · DK

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Producer · UK

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Producer · F

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Producer · F

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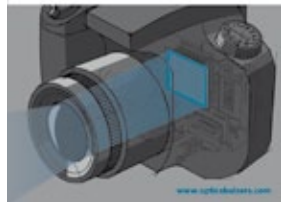
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FL

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Integrator, Solution Provider

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FI

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SLO

Distributor

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FI

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NL

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UK

Machine Builder/OEM

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Producer

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NO

Producer

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DK

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BE

Integrator, Solution Provider

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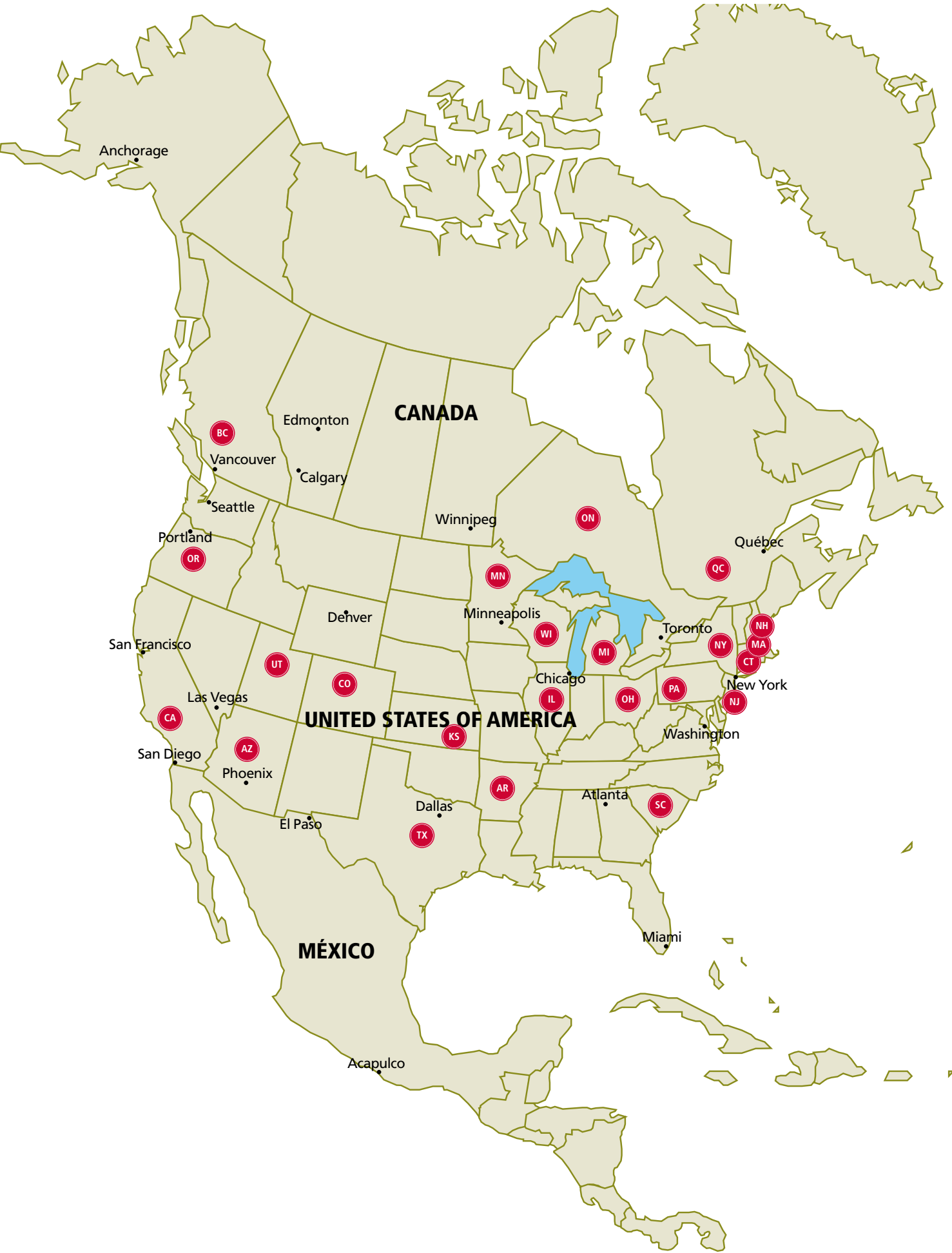
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`QC`

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`IL`

Integrator, Solution Provider

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`CA`

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MN

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CA

Producer

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MA

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AZ

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ON

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QC

Producer

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PA

Consultant

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MI

Producer

Midwest Optical Systems, Inc. · 322 N. Woodwork Lane, 60067 Palatine, IL, United States of America, Tel.: +1 847 359 3550, Fax: +1 847 359 3567, midwest@midopt.com, www.midopt.com

IL

Distributor, Integrator, Solution Provider

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Producer, Solution Provider

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Producer

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America, Tel.: +1 408 986 9988, information@newnex.com, www.newnex.com **CA**

Integrator, Machine Builder/OEM, Solution Provider

Norman N. Axelrod Associates · 445 East 86th Street, 10028 New York, NY, United States of
America, Tel.: +1 212 741 6302, naxelrod@axelrodassociates.com, www.axelrodassociates.com **NY**

Producer

StreamPix 5 is a high speed digital video recording software for single or multiple cameras. Includes support for a wide selection of GigE Vision, USB2, Analog, Firewire and Camera link cameras and frame grabbers using original vendor API's. Supports time stamping, synchronization between multiple cameras, bayer conversion, IrigB and data acquisition. Compatible with various compression codecs. Acquire at up to 500 fps x 1,280 x 1,024 x 8 bits to disk from single or dual cameras. NorPix also provides turnkey systems including software, hardware, triggering and Irigb timing.

NORPIX DIGITAL video Recording Software

Norpix, Inc.
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H3KIG6 Montreal, QC
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Tel.: +1 514 846 0009
Fax: +1 514 846 0117
sales@norpix.com
www.norpix.com **QC**

Other

An Innovative solutions provider, Northwire Technical Cable leads the industry in fast turnaround, with delivery of technical and retractile cable and cable assemblies from design to ship in as few as five days with no minimum order length or quantity requirements. Stock cable is shipped the same day.

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Northwire Technical Cable · 110 Prospect Way, 54020 Osceola, WI, United States of America,
Tel.: +1 715 294 2121, Fax: +1 715 294 3727, cableinfo@northwire.com, www.northwire.com **WI**

Producer

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Solution Provider

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Producer

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Integrator

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Producer

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Tel.: +1 613 247 1211, sales@pixelink.com, www.pixelink.com **ON**

Producer

Pleora Technologies specializes in the transmission of real-time video over Gigabit Ethernet (GigE) networks and is the co-founder of the GigE Vision standard. Our end-to-end networked video connectivity solutions help industrial camera manufacturers and vision system integrators avoid costly R&D expenses and get to market quicker, while ensuring the highest levels of imaging performance.

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Producer

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Producer

PPT Vision · 6301 Old Shakopee Road, 55438 Bloomington, MN, United States of America,
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Solution Provider

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Producer

ProPhotonix designs and manufactures machine-vision structured light laser modules, LED linescan illuminators, chip-on-board LED ring, spot, area and line lights, a wide range of laser modules, including fiber-coupled, for industrial, medical, security, defense and transportation industries. We also distribute laser diodes manufactured by industry leaders including Sony, Oclaro/Opnext, Ondax and QSI. In addition, ProPhotonix creates custom OEM lighting solutions for scientific and industrial applications, including packaging, industrial inspection and alignment, high-speed scanning and sorting, patient positioning, targeting, and 3-D imaging.

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www.prophotonix.com **NH**

Producer

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of America, Tel.: +1 408 736 6000, sales@rad-icon.com, www.rad-icon.com **CA**

Producer

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Tel.: +1 609 642 1377, Fax: +1 609 964 1928, voigt@SensorDesk.com, www.SensorDesk.com **NJ**

Machine Builder/OEM

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Integrator

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Producer

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Producer

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America, Tel.: +1 231 722 1199, bobby@smartvisionlights.com, www.smartvisionlights.com **MI**

Producer

Spectrum Illumination is the leading supplier of high output LED lighting for the Machine Vision Market. Spectrum Illumination was the first company to bring high output LED's to the market and we are still the only company with a full product line utilizing that technology. Spectrum Illumination has over 100,000 standard products with all different variations. Most standard products are available to ship within days of receiving a purchase order.

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MI

Solution Provider

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QC

Producer

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CA

Producer

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NY

Consultant, Distributor, Integrator

Systematic Vision · PO Box 490, 01721 Ashland, MA, United States of America, Tel.: +1 508 5321116, info@systematicvision.com, www.systematicvision.com

MA

Producer

Tekstar Optical Inc. · 270 Kohr Rd., 11754-1237 Kings Park, NY, United States of America, Tel.: +1 631 663 3558, Fax: +1 631 269 5368, info@tekstaroptical.com, www.tekstaroptical.com

NY

Machine Builder/OEM

Advanced video imaging technology and high resolution cameras such as Toshiba's 3CCD color cameras and their remote head camera family has earned Toshiba America's Imaging Systems Division the distinctive reputation for offering the most advanced imaging solutions to the industrial and scientific communities.
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CA

Solution Provider

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CA

Distributor, Integrator

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OH

Integrator, Solution Provider

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MA

Producer

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NJ

Consultant

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BC

Distributor

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KS

Machine Builder/OEM

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Adept Electronic Solutions specialises in the supply and support of machine vision (imaging) systems and components throughout Australia and New Zealand. Adept provides all components required for computer vision and automated inspection. Adept has the broadest range of cameras, optics and lighting from the world's leading manufacturers. Our customers receive timely local support from knowledgeable vision engineers at Adept.

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AUS

Producer

Alditech · Institutskaya, 142290 Pushchino, Russia,
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RUS

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Baumer has established itself as the leading company for vision technologies. Its wide range of digital cameras, vision sensors and further image processing products with cutting edge technologies provides highest quality for industrial, scientific and medical applications. Next to vision products Baumer is known as the premier innovator for precision sensors, motion control, identification solutions, gluing systems and process instrumentation for the automation market.

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CN

Distributor, Solution Provider

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RC

Producer, Solution Provider

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IL

Producer

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J

Producer

JAI is a global manufacturer of digital cameras for machine vision, traffic imaging, global security, medical imaging and scientific research. Besides a broad range of leading-edge 1-CCD and 1-CMOS interlaced/progressive area scan cameras, JAI is a leading provider of multi-imager cameras including 3-CCD RGB area scan cameras, 2-CCD multi-spectral/HDR cameras plus a complete family of 3-CMOS/4-CCD/4-CMOS line scan cameras.

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J

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Association

Japan Industrial Imaging Association · 2-10-15, Nakameguro, Yamate Ave. K Bldg., 153-0061 Meguro, Tokyo, Japan, Tel.: +81 3 3716 3933, Fax: +81 3 3716 3933, info@jiia.org, www.jiia.org   **J**

Producer

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Machine Builder/OEM

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Producer

NED (Nippon Electro-Sensory Devices Ltd) · Shinagawa-ku, Ohi 1-45-2 Gibraltar Ohi Bldg, 4f, 140-0014 Tokyo, Japan, Tel.: +81 3 5718 3181, sven@ned-sensor.com, www.ned-sensor.co.jp/en   **J**

Integrator

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Machine Builder/OEM

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Producer

Shenzhen Kuangshi Communication Technology · 6/F, No.1 Building, Zhongyuntai Industry Park, Tangtou Shiyan, 51818 Shenzhen, China, zteyhb@gmail.com, www.ksfiberoptic.com   **CN**

Toshiba Teli Corporation develops and manufactures CMOS and CCD cameras for machine vision, industrial automation, inspection, measurement, robotics, 3D, pick and place, AOI & medical imaging. The product assortment includes Gigabit, Firewire, PoCL, Cameralink, Linescan, analog, RS170 (EIA), CCIR, near infra-red, remote head cameras, mini-cube and HD CMOS cameras using CCD and CMOS sensors up to 12 megapixel. Toshiba Teli Corporation also manufactures OEM cameras and HD LCD Monitors for the medical industry. Please visit our website to request more information or a demonstration of our products including our new GigE (POE) and USB 3.0 camera called "Bee" and 6.5 Mega CMOS camera running a full 85 FPS. Our products are subject to total in-house manufacturing from the procurement and supply of components to assembly, wiring and inspection.

Producer

We build on established technology with state-of-the-art innovations that support constant efforts to maintain the very highest quality levels in our products.

teli

Toshiba Teli Corporation
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Integrator

View-Factor · Av Circunvalacion, - Cochabamba, Bolivia, Tel.: +591 4 445 4595, Fax: agalindo@view-factor.com, www.view-factor.com   **BOL**

Quad-port GigE Vision Frame Grabber

AdlinkK's GIE64+ , a quad-port GigE Vision frame grabber, features PoE (Power over Ethernet), IEEE 1588 Precision Time Protocol and smart PoE application programming interface. The GIE64+ supports PCI Express x4 lane, four independent Gigabit Ethernet ports, and GigE Vision camera compliance. With multi-channel synchronization, PoE interface, IEEE 1588 PTP and Smart PoE support, the GIE64+ cuts cabling requirements by as much as 60%, significantly reducing maintenance burdens and boosting ease of use.

The GIE64+supports IEEE 1588, providing a software trigger mode for multi-camera synchronized captures.

The GIE64+ utilizes a lone Ethernet cable for power supply, data transfer, and synchronization. In a 4-channel image system, only four cables are required, representing a clear reduction in TCO (total cost of ownership). In addition, the GIE64+ supports a smart PoE application programming interface, enabling easy power status programming and auto detection of compatibility with both PoE and non-PoE devices.

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emea@adlinktech.com
www.adlinktech.eu

See our profile on page 36

Vision Sensor 02V

The new vision sensor O2V of ifm electronic for packaging, production and quality control checks objects for presence, size, position or completeness. Instead of a defined contour the user determines relative features used by the sensor to assess an object or a scene. Within adjustable tolerances the sensor determines characteristics such as the area of an object (number of pixels), the inner and outer object size of an irregular object geometry, roundness or compactness or the number of available holes.

Numerous evaluation parameters enable a wide range of applications. 32 scenes with up to 24 different models can be saved in the unit. All parameters can be set conveniently via the menu-guided parameter setting software.

The O2V can be used as a stand-alone system: camera, illumination and evaluation are integrated into a compact metal housing with the protecting rating IP 67. The temperature range of –10...60°C enables a wide range of applications. The Ethernet process in-

terface is used for image transmission and connection to the controller.

ifm electronic gmbh
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www.ifm.com

See our profile on page 24

3D Pro Laser and 3D Pro Laser Mini

Structured Light Lasers for Machine Vision

The 3D Pro Laser and 3D Pro Laser Mini have been specifically designed for the machine vision market. They combine a compact cylindrical form factor for easy mounting with a customer-specific fixed focus for precision alignment. Due to their industry-standard mechanical dimensions (19 mm and 10 mm,) they can be utilized either for new functions or as drop-in replacements for existing applications requiring structured light lasers. 3D PRO lasers generate an extremely uniform laser line that is ideally suited for 3D applications, high-speed automated inspection and other.

Key Features:
• Compact, cylindrical form factor for easy mounting
• Preset or adjustable focus options
• Excellent uniformity
• Line widths of 15 µm at 120 mm
• Available options include: wavelengths, power levels, fan angles, intensity control and strobe

Key Applications:
• 3D Machine Vision
• Dimensional scanning
• High precision alignment, pointing, positioning
• Automated inspection

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Fax: +1 603 8988 851
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See our profile on page 62

New High Sensitivity CMOS Line Scan Cameras

TVI's new camera series is based on new 2048 pixel CMOS sensor with large pixels (20 µm x 20 µm) and high line rate.

New cameras represent the latest camera technology on the market. High sensitivity and high line rate together with the web browser based, easy-to-use user interface and many other advanced features make the cameras to be really today's leading edge technology.

New cameras are prism based 3CMOS and 4CMOS colour line scan cameras; and monochrome CMOS camera. These new series cameras will be available with both CoaXPress and Camera Link interface. Monochrome camera will be available also with GigE interface.

All new cameras have maximum line rate of 80 klines/s and dynamics range up to 14 bits. All camera models have the Ethernet port for monitoring, test image grabbing and remote firmware updating.

These new cameras are the ideal components for food sorting, print inspection and other web inspection appli-

cations, just a few to mention. These cameras are also first members of JAI's Sweep and Sweep+ camera series as TVI Vision became a part of JAI Group in April 2012.

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Tel.: +358 207 579 518
Fax: +358 207 579 519
info@tvivision.com
www.tvivision.com

See our profile on page 58

New LED Light Source for Machine Vision

The new LED light source intraLED 3 from Volpi has a light intensity of over 500 lumens (measured on a 1-meter light guide with an active diameter of 13.5 mm). Activation is done either manually via the integrated RS-232 interface (optional USB) or via the multiport with digital and analog input. The intraLED 3 is available in two variants and is thus compatible with light guides from Volpi and Schott-Fostec. Given these specifications, most applications with 100 watt or 150 watt halogen light sources can now be implemented with an intraLED 3. Replacement of conventional halogen light sources offers the user numerous advantages: the long service life of 50,000 hours, the maintenance-free design and the substantially lower power consumption noticeably reduce total operating costs. The compact enclosure allows use on a small surface and the threaded rails (M4) present on four sides facilitate smooth system integration.

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Fax: +41 4473 243 44
mail@volpi.ch
www.volpi.ch

See our profile on page 34

Easy – New Intelligent Camera Platform

The new intelligent camera platform D3 by VRmagic was designed with usability, flexibility, and performance in mind. The D3 features a 1 GHz ARM Cortex-A8 Core with floating point unit running Linux and a 700 MHz C674x DSP with FPU, which is available for performance-demanding algorithms. 2 GB DDR3-800 RAM are available as memory. A Gigabit Ethernet interface provides fast and efficient transmission of image data. The extended software portfolio ranges from image processing libraries such as Halcon and open source software like OpenCV to a Mono compatible .NET interface. The embedded system supports a multitude of interfaces, which offers you a high level of flexibility. Besides a standard platform with a fix set of interfaces such as Ethernet, USB, and GPIOs, customers can select a combination of interfaces that perfectly matches their requirements.

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68165 Mannheim
Germany
Tel.: +49 621 400 416 20
Fax: +49 621 400 416 99
info.imaging@vrmagic.com
www.vrmagic-imaging.com

See our profile on page 50

Smallest SWIR Line-Scan Cameras

Machine vision inspection using Xenics' uncooled Lynx cameras provides you high resolution information about quality assurance measurements. The SWIR cameras match perfectly the absorption spectra of low level photon emissions and provide increased subsurface penetration depth images.

The Lynx cameras are a flexible solution with industry-standard GigE Vision, Power over Ethernet or Camera-Link interface, and at a later stage CoaXPress. Furthermore you can change integration times from 1 µs to several minutes. You will reach optimal image quality choosing from various configurations in High Sensitivity mode (HS) or High Dynamic Range Mode (HDR) and multiple gain settings. The cameras are offered in multiple line resolutions: 512, 1024 or unique 2048 which substitutes for costly multiplecamera solutions.

Xenics headquarters
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3001 Leuven
Belgium
Tel.: +32 16 38 99 00
sales@xenics.com
www.xenics.com

See our profile on page 58

Fastest USB3 Vision and Embedded PC-Cameras

USB3 Vision camera series xiQ: With this line of extraordinary small, lightweight, fast, efficient and highly integrated cameras, Ximea offers a unique value and performance proposition for the industrial market place.

PC-cameras Currera: The IP67 compatible PC based intelligent camera Currera-R comprises a complete PC and an industrial camera in a small housing. The Currera-G offers up to 90 GFlops through the innovative use of an APU (dual-core CPU and GPU).

USB2.0 camera series xiMu: Ximea's smallest camera with a size of only 15x15x9 mm offers big performance in tight spaces.

Scientific and High performance cameras for the most demanding applications requiring ultimate image quality acquisition. With resolutions up to 16 Mpix, cooled and uncooled models, and signal fidelity of 14+bits, xiCe and xiRay cameras generate best-in-class images.

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See our profile on page 34

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www.DigitalWestimaging.com

e2v
www.e2v.com

Eastman Kodak
www.kodak.com/go/imagers

ebs Automatisierte Thermographie und Systemtechnik
www.irpod.net

Edmund Optics
www.edmundoptics.de

EHD imaging GmbH
www.ehd.de

Eltec Elektronik
www.eltec.com

Entner Electronics
www.entner-electronics.com

Epix
www.epixinc.com

Erhard + Leimer
www.erhardt-leimer.com

Eureca Messtechnik
www.eureca.de

Euresys
www.euresys.com

eVision Systems
www.aivion.de

Fabrimex Systems
www.fabrimex-systems.ch

Fairchild Imaging
www.fairchildimaging.com

Fastec Imaging
www.fastecimaging.com

FiberVision
www.fibervision.de

FJW Optical Systems
www.findrscope.com

Flir Systems GmbH
www.flir.com

Fluke
www.fluke.de

Fort
www.fort-fr.com

Framos
www.framos.eu

ensors

Fraunhofer IMS
www.ims.fraunhofer.de

FSI Technologies
www.fsinet.com

Fuzhou Feihua Optoelectronic Technology
www.fzfh.com

G4 Technology
www.g4.com.tw

Gevicam
www.gevicam.com

Goodrich/SUI
www.sensorsinc.com

Goratec
www.goratec.de

gsvitec
www.gsvitec.com

Hamamatsu Photonics
www.hamamatsu.com

Helion
www.helionvision.com

Heliotis
www.heliotis.ch

HGV Vosseler
www.hgv.de

High Speed Vision
www.hsvision.de

Hitachi Kokusai Electric Europe GmbH
www.Hitachi-keu.com

Horn Imaging
www.horn-imaging.de

Ico Data
www.icodata.de

IDS
www.ids-imaging.com

ifm electronic
www.ifm.com

Ikegami
www.ikegami.de

Illunis
www.illunis.com

Image House
www.imagehouse.dk

Image S
www.imagessrl.com

Imaging Solutions Group
www.isgchips.com

Imi Technology
www.imi-tech.com

Impac Infrared
www.impacinfrared.com

Imperx
www.imperx.com

IMS Chips
www.ims-chips.de

Industrial Vision Systems
www.industrialvision.co.uk

Infaimon
www.infaimon.com

InfraTec
www.infratec.de

Insensiv
www.insensiv.de

IOS
www.ios-web.de

Ircam
www.ircam.de

IS Imaging Solutions
www.imaging-solutions.de

ISVI Corp
www.isvi-corp.com

JAI
www.jai.com

Japan F.A. Systems Corporation
www.jfas.co.jp

JenCam
www.jencam.de

Jenoptik Laser, Optik, Systeme
www.jenoptik-los.de

Kamera Werke Dresden
www.kwdo.de

Kamiera
www.kamiera.com

Kappa opto-electronics
www.kappa.de

Karlheinz Hinze Optoengineer-ing
www.hinze-opto.de

KeeKoon Electronics
www.keekoon.com

Klughammer
www.klughammer.de

Kvant
www.kvant.sk

Lambda Photometrics
www.lambdaphoto.co.uk

Lambert Instruments
www.lambert-instruments.com

Leitner Industrial Endoscopy
www.leitner-efer.de

Leutron Vision
www.leutron.com

Leuze Electronic
www.leuze.com

LMI Technologies
www.lmitechnologies.com

Lord Ingenierie
www.lord-ing.com

LOT Oriel
www.lot-oriel.com

Lumenera
www.lumenera.com

Luster LightVision Tech
www.lusterinc.com

MAK Bildtechnik
www.mak-bildtechnik.de

Matrix Vision
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Menzel Vision and Robotics
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Mesa Imaging
www.mesa-imaging.ch

MG Optical Solutions
www.mgopticalsolutions.com

Micro-Epsilon Eltrotec
www.eltrotec.com

Microsystems
www.microsystems.it

Mikromak Service
www.mikromak.com

Mikrotron
www.mikrotron.de

msiVision
www.msivision.com

NAC
www.nacinc.de

Narragansett Imaging
www.nimaging.com

National Instruments
www.ni.com

NED
www.ned-sensor.co.jp

NET
www.net-gmbh.com

NeuPro Solutions
www.neupro-solutions.com

New Imaging Technologies
www.new-imaging-technologies.com

NTI
www.nti-measure.com

OBE Ohnmacht & Baumgärtner
www.trevista.net

Odem Technologies
www.odem.co.il

Olympus
www.olympus-europa.com

Omron
www.industrial.omron.de

Opto Fidelity
www.optofidelity.com

Opto Sonderbedarf
www.opto.de

Optrima
www.optrima.com

Optris
www.optris.de

Optronis
www.optronis.com

Orbis
www.orbis.eu

Panasonic Electric Works
www.panasonic-electric-works.de

Parameter
www.parameter.se

PCO
www.pco.de

Pentacon
www.pentacon.de

Pentax Ricoh Imaging Deutschland
www.pentax-security.com

PerkinElmer Optoelectronics
www.perkinelmer.com

Philips
www.apptech.philips.com/vision

Photonfocus
www.photonfocus.com

Photron
www.photron.com

Phytec Messtechnik
www.phytec.de

pi4_robotics
www.pi4.de

Pieper
www.pieper-video.de

PixeLink
www.pixelink.com

PMDTec
www.pmdtec.com

Point Grey Research
www.ptgrey.com

Polytec
www.polytec.com

Polytec
www.polytec.de

Premier Electronics
www.premierelect.co.uk

Princeton Instruments
www.princetoninstruments.com

Prosilica
www.prosilica.com

Proxitronic
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Qualimatest
www.qmt.ch

Quest Innovations
www.quest-innovations.com

Rad-icon Imaging
www.rad-icon.com

Rauscher
www.rauscher.de

Redlake
www.redlake.com

RH Engineering
www.rhengineering.de

Roper Scientific
www.roperscientific.de

Rubroeder
www.rubroeder.de

Salvador Imaging
www.salvadorimaging.com

Schael-Optik
www.schael-optik-ltd.com

Schäfter + Kirchhoff
www.sukhamburg.de

Schmachtl
www.schmachtl.at

SDT - Dr. Seitner
www.sdt-seitner.com

Second2None
www.visiondragon.com

Secube
www.secube.co.kr

Sedeco Vision Components
www.sedeco.nl

Seiwa Optical
www.seiwaopt.co.jp

Sensor to Image
www.sensor-to-image.de

Sensors Unlimited, Inc.
www.sensorsinc.com

Sentech
www.sentech.co.jp

sglux
www.sglux.com

Sharp Microelectronics
www.sharpsme.com

SKS Vision Systems
www.visionsystems.fi

Slomotec
www.slomotec.de

Smartek
www.smartek.hr

Smartray
www.smartray.de

Softhard Technology
www.softhard.com

Soliton Technologies
www.solitontech.com

Sony
www.pro.sony.eu/vision

Stemmer Imaging
www.stemmer-imaging.com

STZ Qualitätssicherung und Bildverarbeitung
www.stz-ilmenau.de

Sugitoh
www.sugitoh.jp

SVS Vistek
www.svs-vistek.com

SVSI
www.southernvisionsystems.com

Symco
www.symco.co.jp

Systematic Vision
www.systematicvision.com

Tattile
www.tattile.com

Tekno Optik
www.teknooptik.se

Tekstar Optical
www.tekstaroptical.com

Teledyne Dalsa
www.teledynedalsa.com

The Imaging Source
www.theimagingnsource.com

Thermosensorik
www.thermosensorik.de

Tichawa Vision
www.tichawa.de

Toshiba
www.toshiba.ch

Toshiba Teli
www.toshiba-teli.co.jp

TriDiCam GmbH
www.TriDiCam.de

TVI Vision
www.tvivision.com

Unibrain
www.unibrain.com

VDS Vosskühler
www.vdsvossk.de

Vega Technology Group
www.vegatcgroup.com

Vialux
www.vialux.de

Vicon Motion Systems
www.vicon.com

Videology Imaging Solutions
www.videologyinc.com

Videor Technical
www.videor.com

ViDiSys
www.vidisys.de

visicontrol
www.visicontrol.com

Visiolaser
www.vannier-photelec.fr/visiolaser

Vision & Control
www.vision-control.com

Vision Components
www.vision-components.com

Vision Research
www.visionresearch.com

Vision Tools
www.vision-tools.com

Visionlink srl
www.visionlink.it

Visiosens
www.visiosens.de

Vistas
www.vistas-gmbh.de

Vistek
www.vistekas.com

Vitronic
www.vitronic.com

ViZaar
www.vizaar.de

VKT
www.vkt.de

VRmagic
www.vrmagic.com

Weiss Imaging and Solutions
www.weiss-imaging.de

Werner Nophut
www.dsam.de

Xenics
www.xenics.com

Ximea GmbH
www.ximea.com

Zertrox
www.zertrox.de

Consulting, Marketing, Education, Other Serv

A.I.D.A. IMVG
www.associazionevisione-imvg.it

AIA Automated Imaging Association
www.machinevisiononline.org

AIDO
www.aido.es

Alfavision
www.alfavision.de

AMC
www.amc-hofmann.com

Arvoo Imaging Products
www.arvoo.com

AS Thermographie
www.as-thermografie.de

Asentics
www.asentics.de

Austrian Research Centers
www.smart-systems.at

Awaiba
www.awaiba.com

Carl Zeiss 3D Metrology Services
www.zeiss3d.de

CMES - Chinese Mechanical Engineering Society
www.cmes.org

Cmos Vision
www.cmosvision.com

CMOSIS
www.cmosis.com

Cognex
www.cognex.com

Collischon Optik-Design
www.mikro-optik.de

CSEM
www.csem.ch

CTMV
www.ctmv.de

Datapixel
www.datapixel.com

de Man Industrie-Automation
www.deman.de

Delta Digital Video
www.delta.dk

Digital West Imaging
www.DigitalWestimaging.com

Duwe 3D
www.duwe-3d.de

EMVA European Machine Vision Association
www.emva.org

Entner Electronics
www.entner-electronics.com

Erhard + Leimer
www.erhardt-leimer.com

Farbmessung Schröder
www.farbmessung.com

FiberVision
www.fibervision.de

Framos
www.framos.eu

Fraunhofer Allianz Vision
www.vision.fraunhofer.de

Fritz Pauker Ingenieure
www.pauker-ingenieure.de

G4 Technology
www.g4.com.tw

GBS
www.gbs-ilmenau.de

GFaI
www.gfai.de

GIT Verlag
www.gitverlag.com

Graphikon
www.graphikon.de

HGV Vosseler
www.hgv.de

IAI Imaging Association of India
www.iaionline.org

IDS
www.ids-imaging.com

Imaging Lab
www.imaginglab.it

Impuls
www.impuls-imaging.com

INB Vision
www.inb-vision.com

Infaimon
www.infaimon.com

InRay Solutions
www.inrays.com

Irida Labs
www.iridalabs.gr

IS Imaging Solutions
www.imaging-solutions.de

IVAN
www.feda.nl

JIIA Japan Industrial Imaging Association
www.jiia.org

Joanneum Research
www.joanneum.at

Kappa opto-electronics
www.kappa.de

Landesmesse Stuttgart
www.vision-fair.de

&
ices

Lincoln Laser Company
www.lincolnlaser.com

Messe München
www.messe-muenchen.de

Michigan Metrology
www.michmet.com

msiVision
www.msivision.com

Neurocheck
www.neurocheck.com

Norman N. Axelrod Associates
www.axelrodassociates.com

NTI
www.nti-measure.com

OBE Ohnmacht & Baumgärtner
www.trevista.net

Omron
www.industrial.omron.de

Optical Research Associates
www.opticalres.com

Opto Fidelity
www.optofidelity.com

Opto Sonderbedarf
www.opto.de

P.E. Schall
www.schall-messen.de

Phytec Messtechnik
www.phytec.de

pi4_robotics
www.pi4.de

Polytec
www.polytec.com

Rubroeder
www.rubroeder.de

Sensor to Image
www.sensor-to-image.de

SmartSurv
www.smartsurv.de

Solving3D
www.solving3d.de

SPG Data 3D
www.spgdata3d.com

Stemmer Imaging
www.stemmer-imaging.com

STZ Qualitätssicherung und Bildverarbeitung
www.stz-ilmenau.de

Supercomputing Systems
www.scs-vision.ch

SVS Vistek
www.svs-vistek.com

Symop
www.symop.com

Systematic Vision
www.systematicvision.com

UKIVA
www.ukiva.org

University of Applied Scienes
www.fbmn.h-da.de

Univision
www.univision.it

Van de Loosdrecht Machine Vision
www.vdlmv.nl

VDMA Industrielle Bildverarbeitung
www.vdma.org/vision

Vega Technology Group
www.vegatcgroup.com

Vision & Control
www.vision-control.com

Vision Academy
www.vision-academy.org

Vision Club of Finland
www.automaatioseura.fi

Vision Machines
www.vision-machines.com

Vision N
www.vision-n.de

Vision Tools
www.vision-tools.com

Visionlink
www.visionlink.it

Vision Ventures
www.vision-ventures.eu

Vistek
www.vistekas.com

Vitronic
www.vitronic.com

VMT
www.vmt-gmbh.com

wenglor sensoric
www.wenglor.com

Zertrox
www.zertrox.de

Lighting & Illum Sys

ABW
www.abw-3d.de

Acal BFi Germany
www.bfioptilas.com

Advanced Illumiation
www.advancedillumination.com

Alrad Imaging
www.alrad.co.uk

Allison Park Group
www.apgvision.com

Balluf
www.balluf.de

Baumer
www.baumer.com

Bock Optronics
www.bockoptronics.ca

Büchner Lichtsysteme
www.buechner-lichtsysteme.de

Cavitar
www.cavitar.com

CCS Europe
www.ccs-grp.com

Ceres Vision
www.ceresvision.de

Chromasens
www.chromasens.de

Cognex
www.cognex.com

Coherent
www.coherent.com

Computer BV
www.computerbv.de

Data Vision
www.datvision.com

DCM Sistemes
www.dcmsistemes.com

Dedo Weigert
www.dedoweigertfilm.de

Digital West Imaging
www.DigitalWestimaging.com

Edmund Optics
www.edmundoptics.de

Effilux
www.effilux.fr

Erhard + Leimer
www.erhardt-leimer.com

Fabrimex Systems
www.fabrimex-systems.ch

Falcon LED Lighting
www.falcon-lighting.de

Faseroptik Henning
www.faseroptik-henning.de

Fiberoptics Technology
www.fiberoptix.com

FiberVision
www.fibervision.de

Finger
www.finger-kg.de

Framos
www.framos.eu

Frankfurt Laser Company
www.frlaser.com

FSI Technologies
www.fsinet.com

G4 Technology
www.g4.com.tw

Gardasoft Vision
www.gardasoft.com

Global Laser
www.global-lasertech.co.jp

GPP Chemnitz
www.gppc.de

Hamamatsu Photonics
www.hamamatsu.com

Hema
www.hema.de

HGV Vosseler
www.hgv.de

Karlheinz Hinze Optoengineering
www.hinze-opto.de

Helmut Hund GmbH
www.hund.de

IB/E Optics
www.ibe-optics.com

ifm electronic
www.ifm.com

iiM
www.iimag.de

ILEE
www.ilee.ch

Image House
www.imagehouse.dk

Image S
www.imagessrl.com

IS Imaging Solutions
www.imaging-solutions.de

Omron
www.industrial.omron.de

Infaimon
www.infaimon.com

Insensiv
www.insensiv.de

ISVI Corp
www.isvi-corp.com

Jenoptik Laser, Optik, Systeme
www.jenoptik-los.de

Japan F.A. Systems Corporation
www.jfas.co.jp

Keyence
www.keyence.de

Klastech GmbH
www.klastech.com

Klughammer
www.klughammer.de

Kvant
www.kvant.sk

Lambda Photometrics
www.lambdaphoto.co.uk

Laser 2000
www.laser2000.de

Laser Components
www.lasercomponents.com

LAT elektronik AB
www.latab.se

LDD Trading Associates, LLC
www.LDDLIGHT.com

Leitner Industrial Endoscopy
www.leitner-efer.de

LEJ Leistungselektronik Jena
www.lej.de

Leutron Vision
www.leutron.com

LMI Technologies
www.lmitechnologies.com

LOT Oriel
www.lot-oriel.com

Luster LightVision Tech
www.lusterinc.com

Matrix Vision
www.matrix-vision.de

MaxxVision
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Menzel Vision and Robotics
www.menzelab.com

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Metaphase Technologies
www.metaphase-tech.com

MG Optical Solutions
www.mgopticalsolutions.com

Microscan
www.microscan.com

Microsystems
www.microsystems.it

Collischon Optik-Design
www.mikro-optik.de

MikroVision
www.mikrovision.de

Moritex
www.moritex.com

msiVision
www.msivision.com

MTD
www.mtd-light.com

Myutron
www.myutron.com

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Orbis
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PerkinElmer Optoelectronics
www.perkinelmer.com

Phaer
www.phaer.be

Phlox
www.phlox-gc.com

Phytec Messtechnik
www.phytec.de

pi4_robotics
www.pi4.de

Planistar Lichttechnik
www.planistar.de

POG Präzisionsoptik Gera
www.pog.eu

Polytec
www.polytec.com

Power Technology, Inc.
www.powertechnology.com

Profactor
www.profactor.at

Qualimatest
www.qmt.ch

Rauscher
www.rauscher.de

Rheintacho Messtechnik
www.rheintacho.com

RH Engineering
www.rhengineering.de

Special Application Products
www.sapltd.co.uk

Schael-Optik
www.schael-optik-ltd.com

Schmachtl
www.schmachtl.at

Jos. Schneider Optische Werke
www.schneiderindustrialoptics.com

Schott AG Lighting and Imaging
www.schott.com

Sedeco Vision Components
www.sedeco.nl

Seiwa Optical
www.seiwaopt.co.jp

Sharp Microelectronics
www.sharpsme.com

Sill Optics
www.silloptics.de

Smart Vision Lights
www.smartvisionlights.com

Soliton Technologies
www.solitontech.com

Spectrum Illumination
www.spectrumillumination.com

Stemmer Imaging
www.stemmer-imaging.com

StockerYale
www.stockeryale.com

STZ Qualitätssicherung und Bildverarbeitung
www.stz-ilmenau.de

Schäfter + Kirchhoff
www.sukhamburg.de

SVS Vistek
www.svs-vistek.com

Symco
www.symco.co.jp

tecin
www.tecin.de

Tekno Optik
www.teknooptik.se

Tema
www.temavisio.com

The Imaging Source
www.theimagingnsource.com

OBE Ohnmacht & Baumgärtner
www.trevista.net

Univision
www.univision.it

Visiolaser
www.vannier-photelec.fr/visiolaser

V Cubed
www.vcubed.co.uk

Vialux
www.vialux.de

visicontrol
www.visicontrol.com

Vision & Control
www.vision-control.com

Second2None
www.visiondragon.com

Vision Light Tech
www.visionlighttech.com

Visionlink
www.visionlink.it

Visionlink srl
www.visionlink.it

Vision Tools
www.vision-tools.com

Visitool
www.visitool.de

Vistas
www.vistas-gmbh.de

Vistek
www.vistekas.com

Volpi
www.volpi.ch

Herbert Waldmann
www.waldmann.com

Weiss Imaging and Solutions
www.weiss-imaging.de

wenglor sensoric
www.wenglor.com

Zertrox
www.zertrox.de

Frame Grabber

Active Silicon
www.activesilicon.com

Adlink
www.adlinktech.eu

Alacron
www.alacron.com

Alrad Imaging
www.alrad.co.uk

Arvoo Imaging Products
www.arvoo.com

Baumer
www.baumer.com

Beijing Microview
www.microview.com.cn

BitFlow
www.bitflow.com

Bock Optronics
www.bockoptronics.ca

China Daheng Group
www.daheng-image.com

Cognex
www.cognex.com

Computer BV
www.computerbv.de

Cosyco
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Cyberoptics Semiconductor
www.imagenation.com

Data Vision
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EDT
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EHD imaging GmbH
www.ehd.de

Ellips
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Eltec Elektronik
www.eltec.com

Epix
www.epixinc.com

Fabrimex Systems
www.fabrimex-systems.ch

Fast
www.fast-corp.co.jp

Framos
www.framos.eu

G4 Technology
www.g4.com.tw

Gidel
www.gidel.com

HaSoTec
www.hasotec.com

HGV Vosseler
www.hgv.de

IDS
www.ids-imaging.com

Image House
www.imagehouse.dk

Image S
www.imagessrl.com

Imaging Solutions Group
www.isgchips.com

Imperx
www.imperx.com

Infaimon
www.infaimon.com

IS Imaging Solutions
www.imaging-solutions.de

Isra Vision
www.isravision.com

Japan F.A. Systems Corporation
www.jfas.co.jp

**Karlheinz Hinze
Optoengineering**
www.hinze-opto.de

Kvant
www.kvant.sk

Lambda Photometrics
www.lambdaphoto.co.uk

Leutron Vision
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Menzel Vision and Robotics
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Microsystems
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National Instruments
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Odem Technologies
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Orbis
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Parameter
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Phytec Messtechnik
www.phytec.de

pi4_robotics
www.pi4.de

Polytec
www.polytec.com

Premier Electronics
www.premierelect.co.uk

Qualimatest
www.qmt.ch

Rauscher
www.rauscher.de

Schael-Optik
www.schael-optik-ltd.com

Schmachtl
www.schmachtl.at

Second2None
www.visiondragon.com

Seldes
www.seldes.com

Sensor to Image
www.sensor-to-image.de

Silicon Software
www.silicon-software.de

Stemmer Imaging
www.stemmer-imaging.com

**STZ Qualitätssicherung und
Bildverarbeitung**
www.stz-ilmenau.de

**Sundance Multiprocessor
Technology**
www.sundance.com

SVS Vistek
www.svs-vistek.com

Symco
www.symco.co.jp

Systematic Vision
www.systematicvision.com

Teledyne Dalsa
www.teledynedalsa.com

The Imaging Source
www.theimagingnsource.com

Videology Imaging Solutions
www.videologyinc.com

ViDiSys
www.vidisys.de

Vision Tools
www.vision-tools.com

Visionlink srl
www.visionlink.it

Vistek
www.vistekas.com

Weiss Imaging and Solutions
www.weiss-imaging.de

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www.weiss-imaging.de

Microscopes, Endoscopes & Equipment

Alrad Imaging
www.alrad.co.uk

AMS Technologies
www.ams.de

Andor Technology
www.andor.com

Mikroskoptechnik Rathenow
www.askania.de

Asylum Research
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Atomic Force
www.atomicforce.de

Awaiba
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Bock Optronics
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www.breitmeier.de

Deben UK
www.deben.co.uk

Dr. Heinrich Schneider Messtechnik
www.dr-schneider.de

Edmund Optics
www.edmundoptics.de

EHD Imaging
www.ehd.de

Fei Company
www.fei.com

Fort SA
www.fort-fr.com

FRT Fries Research & Technology
www.frt-gmbh.com

G4 Technology
www.g4.com.tw

GE Inspection Technology
www.geinspectiontechnologies.com

Heliotis AG
www.heliotis.ch

Karlheinz Hinze Optoengineering
www.hinze-opto.de

Hipp Endoskop Service
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www.horn-imaging.de

Helmut Hund GmbH
www.hund.de

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www.visioneng.de

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FiberVision
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www.finger-kg.de

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www.fisba.ch

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FRT Fries Research & Technology
www.frt-gmbh.com

Fujinon
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Goyo Optical
www.goyooptical.com

Karlheinz Hinze Optoengineering
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www.holoeye.com

Helmut Hund GmbH
www.hund.de

IB/E Optics
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IDS
www.ids-imaging.com

iiM
www.iimag.de

Image House
www.imagehouse.dk

Image S
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IS Imaging Solutions
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IMT
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Omron
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Jenoptik Laser, Optik, Systeme
www.jenoptik-los.de

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www.jfas.co.jp

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Symco
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www.evk.biz

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www.farbmessung.com

Faro
www.faro.com

FJW Optical Systems
www.findrscope.com

Flir Systems
www.flirthermography.de

Fraunhofer IFF
www.mpt.iff.fraunhofer.de

Fritz Pauker Ingenieure
www.pauker-ingenieure.de

FRT Fries Research & Technology
www.frt-gmbh.com

G4 Technology
www.g4.com.tw

GE Sensing & Inspection Technologies GmbH
www.gesensinginspection.com

GF Messtechnik
www.gfmesstechnik.de

GOM
www.gom.com

Goodrich/SUI
www.sensorsinc.com

Goratec
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Hamamatsu Photonics
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Hexagon Metrology
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HGV Vosseler
www.hgv.de

Hipp Endoskop Service
www.hipp-endoskopservice.com

Hommel Etamic
www.hommel-etamic.de

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www.ibe-optics.com

Ico Data
www.icodata.de

iiM
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ILEE
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Imetric
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Intacton
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Konica Minolta
www.konicaminolta.eu

Kreon Technologies
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Lambda Photometrics
www.lambdaphoto.co.uk

LamTech
www.lamtech.de

Land Instruments
www.landinst.com

LAP
www.lap-laser.com

Laser 2000
www.laser2000.de

Laser Components
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Laser Quantum
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LayTec GmbH
www.laytec.de

LDV Systeme
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www.leica-geosystems.com/metrology

Leitner Industrial Endoscopy
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Limess
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LOT Oriel
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Mahr
www.mahr.de

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www.meta-mvs.co.uk

Metris
www.metris.com

MG Optical Solutions
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Michigan Metrology
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Components Express
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www.dsignt.de

de Man Industrie-Automation
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Eltec Elektronik
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Epix
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Ernst & Engbring GmbH & Co. KG
www.eue-kabel.de

eVision Systems
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igus
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Mad City Labs, Inc.
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Supercomputing Systems
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Teledyne Dalsa
www.teledynedalsa.com

The Imaging Source
www.theimagingnsource.com

Thinklogical
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www.erhardt-leimer.com

Euresys
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EVT Eye Vision Techology
www.evt-web.com

Fabrimex Systems
www.fabrimex-systems.ch

Fast
www.fast-corp.co.jp

FDS Research
www.fdsresearch.si

FiberVision
www.fibervision.de

Flir Systems
www.flirthermography.de

Framos
www.framos.eu

FSI Technologies
www.fsinet.com

G4 Technology
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GBS
www.gbs-ilmenau.de

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www.giib.de

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IB/E Optics
www.ibe-optics.com

IDS
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iiM
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Image House
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Image S
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IS Imaging Solutions
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Isra Vision
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IVS
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Japan F.A. Systems Corporation
www.jfas.co.jp

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www.lusterinc.com

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www.mathtech.eu

Matrix Vision
www.matrix-vision.de

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www.ni.com

neogramm GmbH & Co. KG
www.neogramm.de

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Norpix
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OBE Ohnmacht & Baumgärtner
www.trevista.net

Odem Technologies
www.odem.co.il

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Omron
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SAC
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Second2None
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www.sedeco.nl

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www.SensorDesk.com

Silicon Software
www.silicon-software.de

Simon IBV
www.simon-ibv.de

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SPG Data 3D
www.spgdata3d.com

Stemmer Imaging
www.stemmer-imaging.com

STZ Qualitätssicherung und Bildverarbeitung
www.stz-ilmenau.de

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www.scs-vision.ch

SVS Vistek
www.svs-vistek.com

Symco
www.symco.co.jp

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www.teknooptik.se

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Thermosensorik
www.thermosensorik.de

Tordivel
www.scorpionvision.com

TriVision
www.trivision.dk

TYZX, Inc.
www.tyzx.com

unique vision
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Univision
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www.vdlmv.nl

Vega Technology Group
www.vegatcgroup.com

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Vision N
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www.weiss-imaging.de

Wenzel
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www.xrite.com

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www.zertrox.de

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Acal BFi Germany
www.bfioptilas.com

Active Silicon
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www.adaptive-vision.com

AIT Göhner
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Ximea GmbH
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Act Smartware
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AGR International
www.agrintl.com

AIT Göhner GmbH
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Applied Vision
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attentra
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Austrian Research Centers
www.smart-systems.at

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Automation W+R
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AVT Advanced Vision Technology
www.avt-inc.com

Balluf
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Basler Vision Technologies
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www.bowesystec.com

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www.zeiss.de

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China Daheng Group
www.daheng-image.com

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de Man Industrie-Automation
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Digital West Imaging
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www.drschenk.com

dr. schwab Inspection Technology GmbH
www.schwabinspection.com

Dunkley International
www.dunkleymachinevision.com

nkey
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Dutch Vision Systems
www.dvs-vision.de

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Epix
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www.epson.de/robots

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EyeC-UK Limited
www.eyec-ukandireland.co.uk

Fast
www.fast-corp.co.jp

Faude Automatisierungstechnik
www.faude.de

**FAW Freudenberg Anlagen-
und Werkzeugtechnik**
www.faw-freudenberg.de

FDS Research
www.fdsresearch.si

FiberVision
www.fibervision.de

Finger
www.finger-kg.de

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isys Industrielle Bildverarbeitung GmbH & Co. KG
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IVS
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www.jupvision.de

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www.jasvisio.com

JLI Vision
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www.joanneum.at

K + P Krempien + Petersen
www.kup-image.de

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