

## VISION WORKSHOPS Q1/2015

NET offers free training courses on a regular basis for professionals in industrial vision who want to increase their knowledge base and to improve hands-on skills. Engineers, project managers and programmers profit from NET's experience in supporting hundreds of applications with solution-driven concepts and products.

Our tutors give valuable advice how to cope with real challenges in vision, so all participants are capable to approach common and special issues raised by „their“ application. All interested participants are invited to contact our sales team to discuss their application.

Tutorials for dedicated application demand: demonstrations, hands-on trainings + exercises

### LEARN FROM OUR VISION EXPERTS

#### IMAGE PROCESSING FOR VISION EXPERTS ½ DAY

Advanced understanding of the methods of image processing, the influencing factors on the resulting image and of the technical aspects to set-up an image processing system.

- process of image processing
- the influencing factors on the image result
- requirements of an image processing system
- setting up an image processing system properly
- trends: is your application prepared for the future?

#### VISION STANDARDS & TECHNOLOGIES ½ DAY

Extensive overview of the commonly applied technologies regarding camera hardware and software for decision makers in industrial vision.

- the big picture – putting together the technology puzzle
- optical measurement technologies
- camera technology: digitalization, data processing, interfaces
- application architectures
- software development kit/API

#### CHOOSING OPTICS FOR THE APPLICATION ½ DAY

Knowledge about the variables of optical measurement technology and the selection criteria for the customer applications.

- what optics detect
- monitor and measure: How to get optical information?
- key criteria of choosing the right lens and illumination
- creative, goal-orientated solution approaches
- standard/custom lenses – when necessary, when reasonable

### JOIN OUR FREE TRAINING COURSES

#### APPLICATION CLASSES

2H TUTORIALS FOR DEDICATED APPLICATION DEMAND

- **USB3 Vision** for multi-camera inspection systems
- **line scan approaches** – smart, single and multi-line
- **smart vision workshop** – camera real-time image processing for custom applications

Please contact our sales team for further information.

#### THE OPEN CAMERA CONCEPT OF GigEPRO – CUSTOM IMAGE PRE-PROCESSING ALGORITHMS 1 DAY

FPGA programmers learn about the concept of GigEPRO and how to apply the custom module of GigEPRO to create and implement their custom algorithm.

- implementation/synthesis
- interfaces to custom module
- register access, naming
- documentation
- creation of examples
- default setting of camera

#### POWERFUL APPLICATIONS WITHOUT PROGRAMMING 1 DAY

Newcomers in application creation are capable of creating their custom application and HMI with ready-to-use filters. Featured product: Adaptive Vision Studio.

- introduction to Adaptive Vision Studio
- image acquisition
- algorithm design with ready-for-use filters
- creation of custom HMI
- running of applications on a PC with camera/smart camera
- tips & tricks

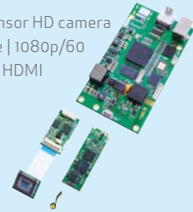
### 3iCube iCube

USB3.0 | USB3 Vision · USB2.0  
up to 10 MP  
color · mono · NIR



### HDselect

multi-sensor HD camera  
real-time | 1080p/60  
USB3.0 | HDMI



### CORSIGHT

all-in-one smart camera  
matrix/line scan  
Windows™ or Linux



### GimaGO easy

GigE Vision  
PoE  
low budget



### GigEPRO

GigE Vision  
real-time algorithms  
open camera concept



### CLISBee-S

up to 16K line  
125 kHz scan rate  
3-CMOS technology



Transfer of applied knowledge with real application cases and solution approaches

### PLACE OF VISION WORKSHOPS Q1/2015:

NET New Electronic Technology GmbH,  
Lerchenberg 7, D-86923 Finning/Germany

Please choose the workshops you are interested in attending, fill out the entire form and return it **by mail to NET GmbH**. We will answer your request immediately. Please note that the number of participants is **limited**.

online  
registration:  
[www.net-gmbh.com/  
registration](http://www.net-gmbh.com/registration)

## REGISTRATION

### I REGISTER FOR THE FOLLOWING WORKSHOPS:

- Image Processing for Vision Experts. March 9, 14.00-18.00h
- Choosing Optics for the Application. March 10, 9.30-13.30h
- Vision Standards & Technologies. March 10, 14.00-18.00h
- Smart Vision Workshop. March 11, 11.30-13.30h
- Line Scan Approaches. March 11, 14.00-16.00h
- USB3 Vision for Multi-Camera-Systems. March 11, 16.30-18.30h
- Powerful Applications without Programming\*. March 12, 9.30-18.00h
- The Open Camera Concept of GigEPRO\*. March 13, 9.30-18.00h

\*hardware requirements for participants: laptop with USB3.0/GigE Vision interface;  
additional hardware necessary for FPGA programming with GigEPRO.

### #1 MY DATA (MAIN CONTACT):

surname, first name
organization
street
city/zip-code
country
phone
email

### FURTHER PARTICIPANTS (OPTIONAL):

#2, surname/first name
#3, surname/first name

I understand that my registration is non-binding for NET and it does not base any claims against NET to conduct workshops and to compensate for accommodation and arrival. All data is treated as confidential by NET. I hereby declare that I agree to my data being stored and analysed electronically by NET GmbH, and to receive marketing information and promotions from NET in future. At all times I can unsubscribe from NET communications.

binding signature, company stamp	place, date
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## COMPETENCE IN VISION

More than 15 years of experience, know-how & innovation

NET has at least one suitable camera type for almost any application – some of which were even developed specifically to this purpose. Customers benefit from our in-depth application knowledge in industrial vision and medical imaging.

The product portfolio of NET includes a complete offering for an image processing system. We deliver solutions that make a difference to our customers' applications by delivering competence in vision technology.

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Changes, errors and omissions excepted. 1/2015



PLEASE FIND MORE INFORMATION  
ABOUT NET ON [WWW.NET-GMBH.COM](http://WWW.NET-GMBH.COM)