

Image Sensor and Camera Technology 7-8-9 December 2015 in Yokohama

Aphesa organizes an image sensor and camera technology training tour between October 2015 and November 2016. The training sessions are organized as three days per location and split over several courses, it is possible to subscribe for a single course, multiple courses or the full session.

The courses are introductory to mid-level, with some advanced topics, and are designed for engineers who are new to the field of imaging or non-engineering personnel who needs a more in-depth understanding of the technology or engineers familiar with some elements of machine vision but not the whole picture. It is also a good refresher course for experienced engineers and a good introductory course for sales, marketing and support personnel. Each course is accompanied by a question and answer session and an open discussion session. There are PDF notes for each course.

The courses in Yokohama are organized at the AIC Vision office between Monday December 7th and Wednesday 9th, the week after the ITE show at the Pacifico.

The course sessions or a customized course session can be organized in company for a special price and an unlimited number of attendees.

All courses are in English. Japanese translation will be provided when necessary, for example for questions.

Venue

The recommended hotel is Intercontinental Minatomirai Hotel, Yokohama, Japan but there are many other hotels in the area.

On-site restaurant and many restaurants within walking distance, underground parking available, several attractions, Pacifico and the Minatomirai subway station (tokyu toyoku and minatormirai lines) within walking distance.



The training will be located at 2-17-19, HF Shin-Yokohama Bldg. 4F, Shin-Yokohama, Kouhoku-ku, Yokohama 222-0033 Japan (222-0033 神奈川県横浜市港北区新横浜 2-17-19 HF 新横浜ビルディング 4F) at the AIC Vision office. It is located 8 minutes walking distance from Shin-Yokohama station. The Shin-Yokohama station can be reached from the hotel using the JR Yokohama line or the municipal blue line. The total distance from Minatomirai area to the AIC office is approximately 20 to 30 minutes.

Course schedule

- Monday, December 7th :
 - 8:30 AM to 9:00 AM : welcome drink and registration
 - 9:00 AM to 9:10 AM : Aphesa presentation – code : APHE
 - 9:10 AM to 12:45AM : Introduction to imaging (light, light spectrum, light sources, scene, behavior of light, basic radiometry and photometry, lighting techniques, polarization, filters, optical basics, MTF, camera basics, color issues, multispectral and hyperspectral imaging, camera interfaces, photography and imaging terms, lens standards, camera interface standards) – course code : IMAG, including a short coffee break
 - 1:45PM to 5:30PM Introduction to CMOS image sensors (photodiodes, pixels, arrays, readout circuits, ADC circuits, architectures, spatial and temporal noise sources and noise compensation, color filters, microlenses, dark current, defect pixels, ageing, temperature effects, image sensor design flow, image sensor production process), including a short coffee break – course code : CMOS
- Tuesday, December 8th :
 - 9:00AM to 10:00AM : Summary of APHE, IMAG and CMOS courses for attendees of day 2 sessions only – course code : SUMM
 - 10:00AM to 10:15AM : coffee break
 - 10:15AM to 12:15AM : Introduction to software based (multiple exposure) high dynamic range imaging, including algorithms and artifacts, specific CMOS image sensors for HDR imaging, including control methods, pixel designs and artifacts – course code : HDRI
 - 1:15PM to 2:15PM : Introduction to 3D imaging – course code : 3DIM
 - 2:15PM to 3:45PM : Introduction to the EMVA1288 standard – course code : EMVA
 - 3:45PM to 4:00PM : coffee break
 - 4:00PM to 4:30PM : Introduction to high speed and real time imaging – course code : HSRT
 - 4:30PM to 5:00PM : Special considerations related to mobile imaging – course code : MOBI
- Wednesday, December 9th :
 - 9:00AM to 12:30AM : Introduction to image processing, including a short coffee break – course code : PROC
 - Additional topics or private consulting sessions per specific request in the afternoon, available for open discussions.

Prices

Course code	Price, before November 10th	Price, after November 10th
APHE	Free	Free
IMAG	275 euro	295 euro
CMOS	275 euro	295 euro
SUMM	70 euro (free for attendees of day 1)	80 euro (free for attendees of day 1)
HDRI	170 euro	195 euro
3DIM	75 euro	85 euro
EMVA	100 euro	125 euro
HSRT	45 euro	55 euro
MOBI	45 euro	55 euro
PROC	255 euro	295 euro

Special price for the full session : 1050 (before Nov 10th) or 1200 euro (after Nov 10th).

Reductions are offered for attendance to multiple courses (-10% on the total price for more than two course) or multiple members of a company attending the same courses (-10% for the second member, -30% for any additional member), or previous attendees (-10%).

All prices are before VAT tax. VAT is not applicable to non-belgian companies.

Cancellation policy : 50 euro if more than four weeks before the courses, 50% if less than four weeks before the courses, 100% after November 30th.

Payment terms : 30 days net, invoiced at the time of booking.

The full course session of three days will not run or will be reorganized over only one or two days if more than two sessions do not have the required minimum number of attendees. The minimum number of attendees in Yokohama is 8 and the maximum is limited to 20.

Contact us for advantageous room prices.

Registration

Contact info@aphesa.com or one of our authorized distributors if you intend to attend one or more training sessions, mentioning the course code and the number of attendees from the same company. Aphesa will then provide a quotation for the desired training package. The final decision to organize or cancel courses will be made two weeks before the scheduled training date. Contacting us for a quotation or for more information does not engage yourself to buy a course.

About Aphesa

Founded in 2008, Aphesa provides consulting and development services in the field of imaging. Our company has designed multiple customer specific cameras for use in industrial, medical and oil&gas applications and has provided consulting services for the design of many other image sensors, cameras and systems. Our experience includes GigE-Vision, USB, CameraLink cameras and line scan or area scan sensors in color or monochrome. Our experience also includes high temperature designs, multispectral imaging, high dynamic range imaging, high-speed imaging, embedded image processing and many other topics. Aphesa is also specialized in image sensor and camera testing and has developed EMVA1288 compliant test equipments as well as other specific test equipments for laboratory or production use; the EMVA1288 measurements are also offered as a service.

More information about Aphesa : <http://www.aphesa.com>
Contact us : info@aphesa.com

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Attendees from outside of Japan can also book the training from their local distributor. Visit our website for distributor's contact information.

Future training sessions

Aphesa plans other training sessions in Asia, North America, Belgium and Germany in the next 12 months. Contact us for more information.

