



Tordivel AS
Storgata 20, N-0184, Oslo, Norway
www.scorpionvision.com

SCORPION VISION SOFTWARE® 3D TRAINING COURSE OSLO JANUARY 26 - 28, 2010

You may attend one, two or all three days of the course dependant on your knowledge and interest.
See the next page for the course agenda.

NEW VERSION!
Scorpion Vision Software® 8

SCORPION VISION SOFTWARE®

- 3D CAPABILITIES WITHOUT PROGRAMMING!
- GENERIC FOR ALL PURPOSES
- GIGE SUPPORT
- MULTICORE SUPPORT
- TAILOR WITH PYTHON SCRIPTING, WEB INTERFACING, .NET AND ACTIVE-X CONTROLS



VENUE

Tordivel AS
Storgata 20, N-0184 Oslo, Norway
Ph.: +47 2315 8700
Fax.: +47 23 15 8701

TIME

Day 1, 10:00 - 18:00
Day 2, 08:00 - 16:00
Day 3, 08:00 - 16:00

PRICE

500 € per day. Lunches and one social dinner are included.
Accommodation is not included and must be arranged by the participant.
The course fee must be paid prior to the course.

Fly in to the best machine vision training and learn from the experts behind Scorpion Vision Software®. The course is based on the new Scorpion Vision Software® release 8 including Stereo Vision and 3D Robot Vision.

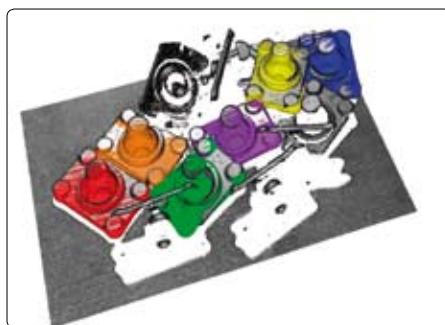
The course starts with a Scorpion basic introduction, continues with advanced 2D vision tasks and brings you further through 3D vision solutions.

EXPEDITIOUS

Scorpion Vision Software® offers a large reduction in the development time and deployment and maintenance cost for machine vision systems. Applications are customised smartly and expeditiously with the flexible user interface. Join us and see how!

POWERFUL AND FLEXIBLE

Enjoy the benefits of an immense and proven toolbox with more than 150 components and tools when creating your innovative machine vision applications. Scorpion Vision Software® is the perfect companion to Smart cameras, area and linescan cameras with USB, Firewire, Cameralink and GigE interfaces as well as 3D image sensors. Choose between a small form factor with a smart camera, a standard PC or the power of an industrial PC with Raid and MultiCore technology.



Parts located in 3D with Scorpion Vision Software®

3D MEASUREMENTS

A key feature in Scorpion Vision Software® is the ability to create and use 3D images. The ability to combine 3D reference systems with any 2D image is unbeatable!

INCLUDED IN THE COURSE FEE

- Scorpion CD with course documentation, examples and more.
- Free participation when buying a Starter Kit upfront the course.
- 75% intensive hands on exercises.
- Lunch and social evening dinner hosted by Tordivel.

Note. All participants need to bring their own PC running Windows with administration rights. We recommend an external mouse.

Helge Jordfald from Tordivel AS will be your lecturer. Phone +47 2315 8700

See next page for the Course Agenda.

INTERNET RESOURCES

Tordivel's Blog
Scorpion Q&A
Scorpion Online Help

REGISTRATION

Registration latest January 19 to:

Tordivel AS
Phone +47 2315 8700
Fax +47 2315 8701
training@tordivel.com
www.scorpionvision.com

Scorpion Vision Software® is a registered trademark of Tordivel AS.



AGENDA

BASIC INTRODUCTION

DAY 1		
10:00 - 11:00	Introduction to Scorpion Vision Software	Presentation
11:00 - 12:00	Installing Scorpion Vision Software with guided tour	Exercise/ Presentation
12:45 - 13:45	Connecting cameras	Exercise
13:45 - 17:45	Getting started exercises – learning how to configure complete vision systems 1. Presence verification system 2. Identification system 3. Gauging system 4. Configuration of product variants and data input pages 5. Communication with external systems	Exercises
17:45 - 18:00	Closing of day 1 and course evaluation	

ADVANCED 2D - BASIC 3D

DAY 2		
08:00 - 09:00	Introduction and Repetition from day 1	Presentation
09:00 - 11:00	Sub-pixel location and reference systems – learning how to configure: 1. LineFinder 2. Reference systems 3. PolygonMatch™	Exercise
11:00 - 12:00	Introduction to Robot Vision	Presentation
12:45 - 14:00	Robot Vision 3 – learning how to configure: 1. TemplateFinder3 2. 3D Camera Calibration 3. 3D External Reference	Exercises
14:00 - 14:30	From 2D to 3D machine vision	Presentation
14:30 - 15:45	Scorpion 3D – how to configure: 1. 3D Stereo vision 2. 3D Model measurements	Presentation / Demo
15:45 - 16:00	Closing of day 2 and course evaluation	

3D INTRODUCTION AND TRAINING

DAY 3		
08:00 - 09:00	Introduction and Repetition from day 2	Presentation
09:00 - 09:30	Laser Trangularation	Presentation / Demo
09:30 - 10:30	3D Calibration	Presentation / Exercise
10:30 - 12:00	3D Stereo Vision including MonoPose3D	Exercise
12:45 - 15:00	Point Cloud measurements	Exercise
15:00 - 15:45	3DMaMa - random bin picking	Presentation / Demo
15:45 - 16:00	Closing and course evaluation	