



SCORPION VISION SOFTWARE®

SCORPION IMAGE LOGGER

Use Scorpion Image Logger to digitize, tag and store video data from multiple video sources in real-time.

Scorpion Image Logger is an application in the powerful Scorpion Vision Software family. Scorpion is capable of acquiring digital images from a broad range of commercial video cameras, optionally tagging the images with real-time data from external data sources such as GPS receivers and OPC devices, before storage to JPG or BMP disk files.

Successful applications have been created using Scorpion with GPS receivers for tagging real world data to images or documenting lack of defects prior to shipments in automotive traceability environments.

*Standard DirectX interface
Real time Image Display
Database connectivity
Python Script Kernel
Automatic Image Logging*

SCORPION MOBILE CAMERA SYSTEM

The purpose of the system is to collect data for a national road information base.

A camera positioned on the roof of a car captures an image every 20 meter. The images are stored in the computer together with their respective GPS position coordinates.

EQUIPMENT

A normal car is equipped with:

- Portable PC
- Scorpion Vision Software®
- Sony Firewire camera
- Trip counter
- Portable GPS receiver
- Mechanics

The road authorities can later look up the images for information, planning or repairing purposes.



A normal car is used for the image acquisition.



The camera is placed on the roof of the car.



The PC is connected to the GPS and the trip counter



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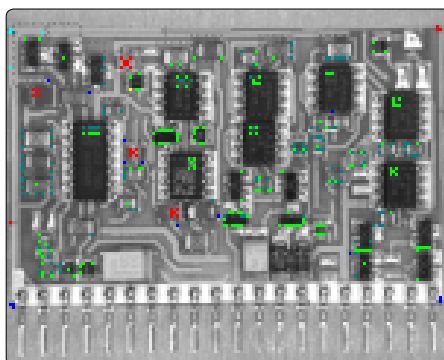
A high quality image is captured every 20 meters. The GPS coordinates are saved with the image.



SCORPION IMAGE LOGGER DETAILS

GRAB

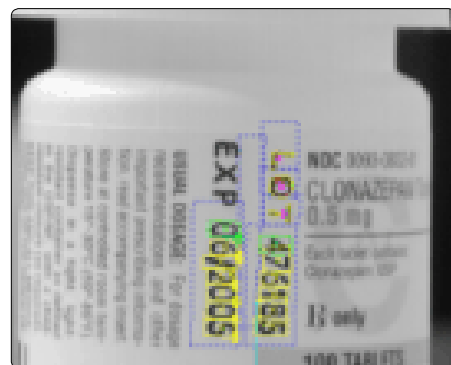
Use Scorpion's field proven interface to 1394 FireWire and USB to capture digital images from a broad range of third party cameras from leading vendors. Up to 16 cameras may be operated simultaneously from one single PC. Scorpion supports hardware triggering where applicable. With Scorpion's elegant ImageView and HistoryList, displaying captured images have never been easier.



TAG

Images may be tagged with user provided data acquired from external sources interfaced to the PC through RS-232, TCP/IP, SQL Databases and OPC. Scorpion embeds the Open Source Python scripting language empowering the user to customize the

application with just a few lines of code. Third party ActiveX plugins may be inserted and scripted upon providing the user with means of adding his own user interface and personal touch to the application.



BAG

Images are stored with user configurable filenames and file tags in BMP or JPG format. Compress images to the bare minimum using the configurable compression settings for JPG images. Browse stored images for offline purposes using the Simulation Mode. Create directories on the fly and monitor disk space usage with our ready to use script modules. Ask us how to add a NAS (Network Accessed Storage) to your system for maximum data reliability and storage capacity.

Firewire cameras from the following vendors are supported:

ADS	OrangeMicro
Allied Vision	PixeLink
Basler Vision	PointGrey
Baumer Optronics	Sony
Hamamatsu	Teli
Imaging Source	Unibrain
JVC	Victor
MicroPix	

TECHNICAL DATA

Operating System

- Windows 2000 / Windows XP
- DirectX 8.1 or higher

Minimum Requirements

- Intel Pentium III 400 MHz
- 128 MB of RAM
- 25 MB free hard drive space

Language Support

- English and Norwegian

Image

- Save format: jpg, 8 and 24 bits windows bitmap
- No restriction on image size

Camera

Up to 16 cameras can be connected to one PC. Images can be captured with a speed up 30 images per second. Generic windows, firewire, usb and usb2 cameras through a generic DirectX interface.

Firewire Cameras: All IIDC compliant firewire cameras through Unibrain's generic drivers.

Note: Image capture speed and camera connections are limited only by the PC configuration.