

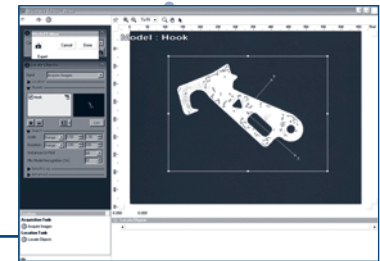
Adept iSight

ADEPT iSIGHT AT-AT-GLANCE



FIREWIRE CAMERA

Adept iSight provides easy-to-use, PC-based, vision-guidance in an out-of-the-box solution for Adept Cobra i600 and Cobra i800 robots. It allows quick development of robust and accurate vision-guided applications thanks to a simple graphical user interface.



ADEPT iSIGHT

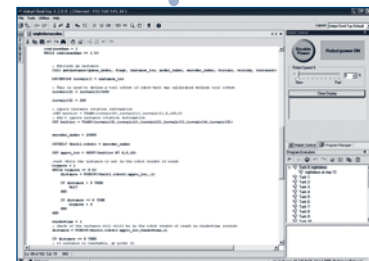
Add vision capabilities that will help you deal with smaller parts and tighter tolerances, achieve higher quality products without the need for complex programming or additional development tools. Adept iSight simplifies deployment in difficult conditions thanks to robust vision algorithms that are tolerant to poor lighting, noise, and occlusions.

**Make the development and use of your
vision-guided applications
simpler, faster and more powerful**

- Increase your application's performance, ease of use, and accuracy
- Reduce complexity, reduce development time
- Lower downtime and increase ROI for end-users
- Leverage industry standards
- Re-use your experience and skills throughout Adept's family of vision products
- Create value in the manufacturing chain with a cost-effective solution



PC RUNNING
ADEPT iSIGHT
AND ADEPT
DESKTOP



ADEPT DESKTOP



ADEPT COBRA
iSERIES

Adept iSight

Features

Fast, Accurate Vision

- Model-based object finding
- Automatic model-teaching and fully editable models
- Portable models: Save and reuse across applications
- Multi-model processing: Simultaneously locate and sort multiple objects
- Advanced disambiguation between very similar objects
- Translation repeatability: 1/40th of a pixel
- Rotation repeatability: 0.01 degree
- Fast parallel processing using MMX and SSE extensions

Vision Guidance and Calibration

Application Development

- Vision application development in a point-and-click environment
- Application information saved to single file that allows import/export between systems
- Adept iSight vision keywords added to the existing functionality and features of MicroV+ operating system and programming language
- Support for various levels of event and results logging; logs can be saved to user-defined files

Calibration

- Accurate calibration of the camera, robot and camera-to-robot workspace
- Wizard-based Robot-to-Vision calibration does not require prior calibration experience by the user
- Calibration corrects for non-centered robot end-effectors
- Supports downward-facing and upward-facing camera positioning

Complete Vision Guided Robot System

- Single package including application toolset, vision software, camera, lens, and accessories
- Delivered, supported and maintained as a single pre-tested product bundle from Adept

Seamlessly working with Adept Cobra i-series robots :

- Self-contained, standalone SCARA robot
(all I/Os and controls built into the robot base)
- Easy-to-install, affordable, high performance robot system
- High precision, high speed, and maximum acceleration combined with smooth motion
- Well suited for mechanical assembly, material handling, packaging, machine tending, screwdriving, and many other operations requiring fast and precise automation

For More Information

Call (763) 682-9548 or (800) 226-6385.

Package Includes

- Adept iSight software
 - Adept iSight vision
(Based on Adept HexSight vision library)
 - MicroV+
- Camera mounting kit
- FireWire camera, 640 x 480 with 16mm lens
- FireWire Cable (10m)
- Tutorial and sample calibration target

Robot Requirements

Adept Cobra i600 or Cobra i800

Hardware Requirements

Intel® Pentium 4 or AMD processor, 2GHz and higher.*

*Recommended

(Note: Adept iSight will work properly with slower CPUs. Vision application performance is directly related to CPU performance. Please consult your Adept applications engineer for more details)

System memory 256MB

IEEE 1394 (FireWire) port

USB port

Minimum resolution 800 x 600

Software Requirements

Windows™ XP SP1 and higher or Windows 2000 SP4

Adept DeskTop 3.1.1.4 and higher

Windows .NET Framework 1.1

(provided with Adept DeskTop)

Support

Benefit from Adept's award winning technical support

Online help, tutorial, application examples



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