

NetSight™

TECHNICAL SPECS

Machine Vision System

Overview

Designed specifically for industrial machine vision applications, NetSight is a vision system that combines a powerful processing engine with high-performance hardware and flexible software interfaces. Instead of having to source and combine the components required to do machine vision, ipd, the intelligent products division of Coreco Imaging, has done the work for you.

As an industry-proven general-purpose machine vision application, NetSight provides you with an extensive choice of interfacing and programming options. Whatever your skill level, NetSight's linked and integrated software enables you to quickly perform project evaluations and prototype solutions without having to write a single line of code. Netsight's "point-and-click" interface enables even non-programmers to develop vision applications. For OEMs or integrators designing custom software interfaces, NetSight also provides an extensive library of machine vision and pattern finding tools.

Since a major component of any machine vision system is the frame grabber, NetSight has integrated Coreco Imaging's superior frame grabber technology.

Configurable with self-boot or remote boot capabilities, Netsight can be deployed as a stand alone or network-ready device that can be controlled or observed from a remote location or machine.



Key Features

- Easy integration, no external PC required
- Small footprint, OEM-style enclosure
- Multiple camera support
- Network ready
- Isolated I/O for interfacing PLCs
- Open software environment
- Supports standard C/C++ or VB programming environments
- Runs industry-proven MVTools®, Sherlock, and SMART libraries, including process invariant search, OCR, barcode and 2D Matrix algorithms

Applications

NetSight is used in a wide variety of machine vision applications to provide quality assurance and control in manufacturing. Combined with proven machine vision tools under a point-and-click, no programming interface, NetSight is an ideal choice for end-users and integrators of machine vision in factory automation.

For the advanced vision integrator or OEM, NetSight provides an ideal open platform ready to build powerful solutions using MVTools or other third party software. A truly customizable machine, NetSight is ready and capable of meeting the most demanding application challenges.

Specifications

Acquisition

- 4 composite inputs
- Format: Interlaced and Progressive scan
- Timing: PLL or HD/VD
- Sample rate: 20 MHz
- Control: Normal, partial scan or async reset
- Interface: 15-pin DSUB
- Power: 12V fused

Camera

- Support for most brands

Control

- 48 pin terminal block:
 - 8 isolated inputs & outputs
 - 2 isolated triggers
 - 1 isolated interrupt
 - 5-24V opto range
 - 2 strobes (TTL)
 - 1 TTL input
 - 1 TTL output

Cabling

- Many options available

Certifications

- CE, FCC Class B

CPU

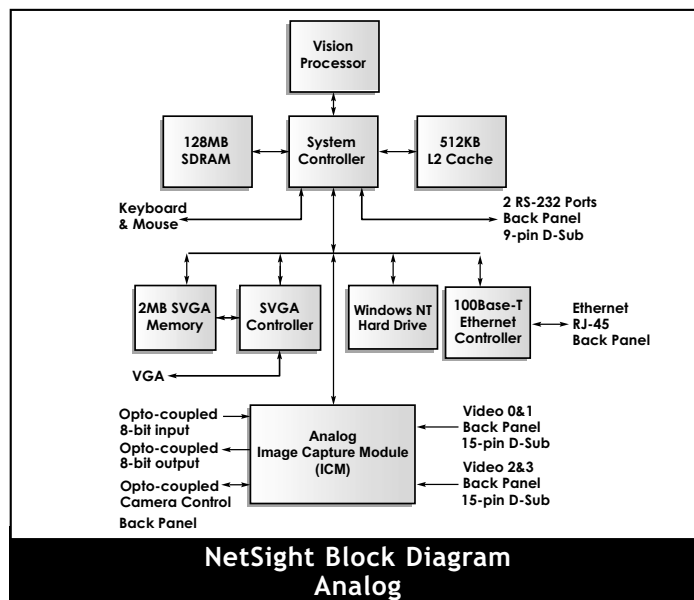
- 1 GHz MMX processor

O/S

- MS Windows

Software

- Sherlock (optional)
 - No programming required
 - General purpose vision application
- MVTools
 - Industry-proven machine vision and Image Processing library
- SMART
 - Adaptive pattern matching algorithms for search, OCR, barcode and 2D Matrix reading



Memory

- 128MB SDRAM for program and acquisition storage
- 6GB internal Hard Drive

Display

- 15 pin DSUB connector
- AGP, up to 1024 x 768

Communication

- Ethernet 10/100 BaseT (RJ45)
- 2 RS-232 Serial ports
- Web server ready

User Input

- Keyboard/Mouse-(User supplied)
- Web browser

Power/Reset

- 120/240V switchable

Mechanical

- Size: 10" x 8.5" x 3.5"
- Weight: 6.5 lbs

Temperature

- Operating: 10 to 50°C
- Storage: -25 to 60°C

Humidity

- 20-80% noncondensing

NetSight Options

- Windows NT with analog or digital image capture (Sherlock optional)
- Other configurations available by special order requests, please contact your ipd Sales Representative.



To learn more about NetSight, see our website at www.goipd.com/products/netsight

ipd Headquarters • 900 Middlesex Turnpike • Building 8 • Billerica, MA • 01821

Email: info@goipd.com • Tel: +1 978.670.2000 • Fax: +1 978.670.2010

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