



Pre-Packaged Smart Camera Solution with CCD  
Camera, Control Unit & Software for Labeling  
Inspection and Gauging

# iIS-010 Smart Camera



## Key Features

**HIGH PRECISION** accuracy means the iIS-010 will locate the smallest defects in manufacturer parts

**DOUBLE SPEED, REMOTE HEAD VGA SENSOR** connects through a single cable to all camera electronics. Electronics support 60Hz progressive scan frame rate

**INDUSTRIAL & INTELLIGENT INTERFACES** for part type (job code), parts inspection, part decision and light control. Also features standard serial and Ethernet 10/100base-T interfaces for configuration and data reporting

**GRAPHICAL USER INTERFACE** provides intuitive configuration and monitoring accessible via Microsoft Explorer® browser page

**LOCAL & GLOBAL SCALING** factors out perspective and non-linear lens distortion for higher measurement accuracy

**THREE CAMERA HEAD OPTIONS** for specific application requirements. Heads are 20mm square type (iIS010), 17mm type (iIS011) and C-mount (iIS012)

## SPECIFICATIONS

### CAMERA HEADS

Image Sensor	1/3-Type CCD
Total Pixels	692(H) x 504 (V)
Effective Pixels	648 (H) x 494 (V)
Pixel Size	7.4μm x 7.4μm
Sensitivity	400lux@F5.6
Dimensions/Weight	
iIS-010	20mm (W) x 20mm (H) x 25mm (D), (19g)
iIS-011	17mm diameter x 36.2mm (D), (16g)
iIS-012	35mm diameter x 40mm (D), (55g)
Lens Mount	
iIS-010	Special Mount (M10.5 PO.5 female)
iIS-011	Special Mount (M15.5 PO.5 male)
iIS-012	C mount
Camera Cable Length	2m

### CAMERA CONTROL UNIT

Video Output Pixels	640 (H) x 480 (V)
Processing	8bit gray scale
Sensor Trigger Mode	Selectable Internal Timer or External Trigger
Exposure Time	Settable from 1 to 1024 (1 step=60μ sec)
Brightness	3-19 LSB (8bit)
Contrast	±4dB
Processor	266MHz Intel compatible SOC processor
Memory	64MB image acquisition & processing 32MB program & solution (job) storage
IP Address	192.168.0.100 (default)
Subnet Mask	25.255.255.0
DHCP	Disabled (default)
DHCP Server	Not available (default)
Primary WINS Server	000.000.000.000 (settable on the web page)
Interfaces	Ethernet (RJ45) 10/100 BaseT Display (D-SUB 15 Pin, Female) RS-232C (D-SUB 9pin, Male) Parallel I/O (8 inputs, 7 outputs)
Dimensions	150 (W) x 60 (H) x 80 (D) mm
Weight	Approximately 500g

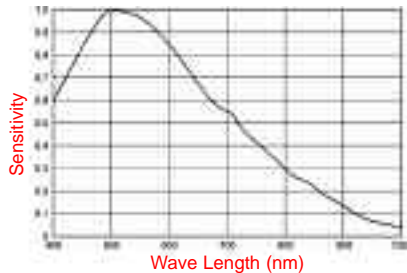
### CLIENT PC SYSTEM REQUIREMENTS

Operating System	Windows® NT, 2000, XP
Browser	Microsoft Internet Explorer® 6.0 or later
History Log Format	CSV.format
PC Type	X86 compatible
Interface	Ethernet, RJ45

### GENERAL

Power Supply	+24V DC ±10%
Power Consumption	10W or less (+24V DC)
Temperature	0° C to +40° C
Humidity	30% to 85%

Relative Spectrum Response  
(Including lens characteristics,  
excluding light source characteristics)

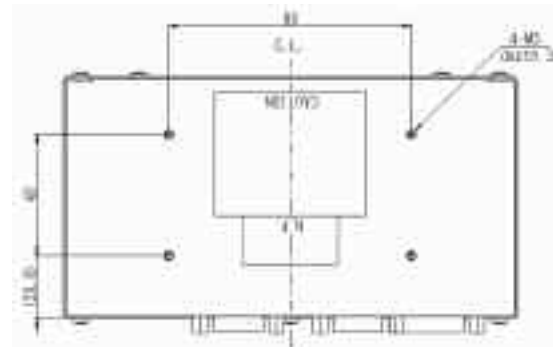
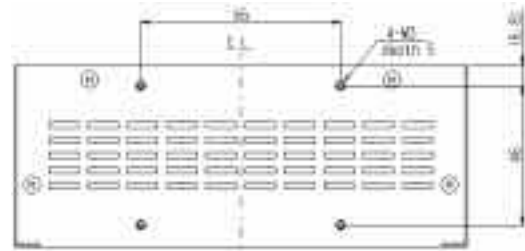
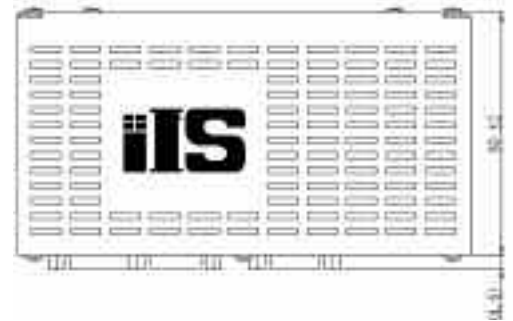
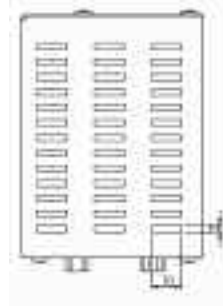
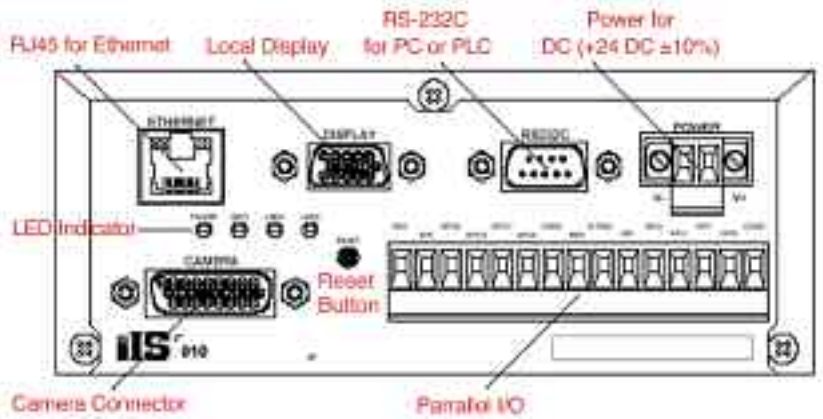


### Gauge Applications

A comprehensive set of gauging tools give you the ability to precisely and accurately measure lines, angles between lines, ellipses and circles (center circularity or out of round nicks major and minor axes), arcs centers and lengths, annuli thread spacing (wave tool), multiple measures of lengths and spacing of parts such as pins on an electrical connector ("rake tools").

### Label Applications

User defined features such as label rotation movement rejection enables you to define your label quality criteria. All settings are quickly defined and changed using a slide bar. Automatic learning of good labels using a proprietary neural net learns labels and variations.



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