

# 1156 Endoscopy Camera

*A single CCD endoscopy camera with HD option*



\*Optical coupler is optional, the camera head has a standard C-mount interface.

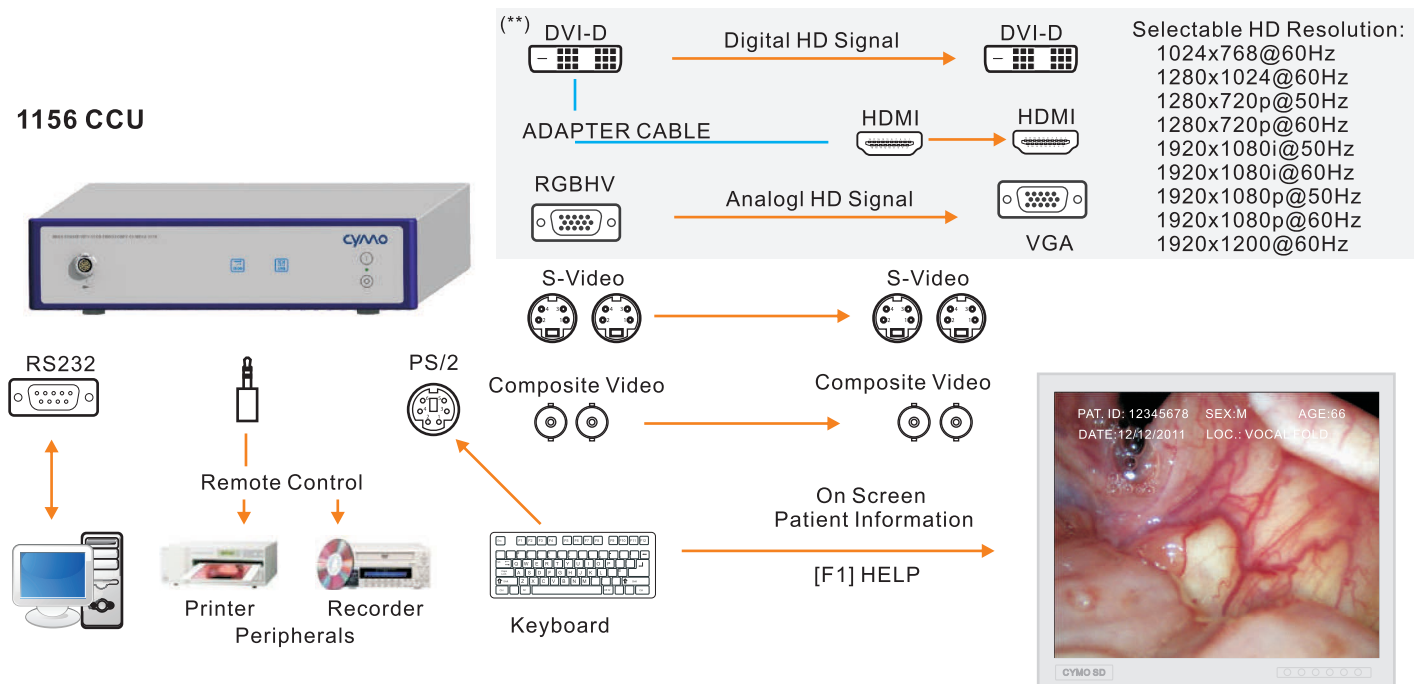
The endoscopy camera 1156 is a low-cost ultra-high sensitive endoscopy camera. With the latest CCD technology, the 1156 camera provides two times higher sensitivity compared to conventional CCD cameras. This substantially reduces the requirements to the light source. The camera incorporates a 10bit digital image processor which offers superior colour rendition and high dynamic range. With high definition digital output option, image quality is improved due to no signal loss on digital connection. The excellent price-benefit ratio makes the 1156 an ideal camera for micro endoscopic surgery and diagnostic endoscopic procedures.

## KEY FEATURES:

- ■ ■ 1/3" CCD high sensitivity image
- ■ ■ Six types of endoscopy settings
- ■ ■ Freeze function
- ■ ■ 2.5 x digital zoom
- ■ ■ Mirror and flip function
- ■ ■ Rotation function
- ■ ■ Digital anti-Moiré function for using with a flexible endoscope
- ■ ■ Illuminated control buttons on the front panel
- ■ ■ Programmable control buttons on the camera head
- ■ ■ High Definition output option, maximal resolution 1920x1200
- ■ ■ Patient information via an external keyboard

# Camera Control Unit (CCU) Outputs:

1156 CCU



\*\*These outputs are optional, not included in the standard configuration.

## TECHNICAL DATA

Video system	PAL / NTSC
Image sensor	1/3" CCD
Scanning system	Interlaced
Output pixels	752 x 582/768 x 494
Resolution	> 500TV Lines
Signal-to-noise ratio	≥ 54dB
White balance	Auto (push button)
Gain	Auto / OFF / Preset
Minimum illumination	0.1 lux
Endoscopic scene files	6
Frame rate	50Hz / 60Hz
Output signal	2 x S-Video 2 x Composite Video
Advanced settings	On Screen Display (OSD) Menu Patient Information (by external keyboard via PS/2 connector) RS232 (on request)
Environment	0°C - +40°C temperature less than 90% relative humidity
Classification	Class I BF

### CAMERA HEAD

Dimensions (Dia x L)	30 × 32 x 74 mm
Weight	80 g
Lens connection	C-mount
Cable length	3 meters
Sterilization	Soakable, IPX7
Control buttons	3

### CONTROL UNIT

Dimensions (W×H×D)	325 × 74 × 365 mm
Weight	5.1 kg
Protection class	IP20
Line voltage	100-240VAC @ 50-60 Hz
Fuse	2 × T 1.0 A E / 250V (IEC 127)
Power tested acc. to	UL2601-1, EN60601-1, IEC601-1-2

### ORDERING DATA

1156.08.01	1156 Camera Control Unit (PAL)
1156.08.02	1156 Camera Head (PAL)
1156.09.01	1156 Camera Control Unit (NTSC)
1156.09.02	1156 Camera Head (NTSC)