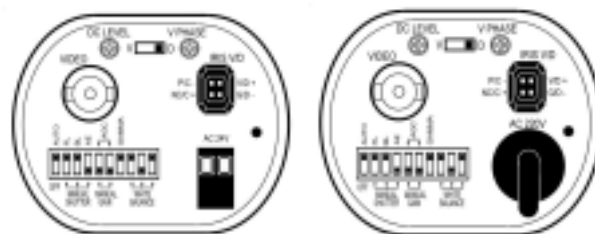


1/3" Super HAD CCD High sensitivity, High resolution  
DSP color camera

# CPT-8050

## SPECIFICATION

Image sensor	Color 1/3" Super HAD CCD
Scanning system	2:1 Interlace scanning
Scanning frequency	NTSC: Hor.15,734Hz x Ver.59.94Hz, 60Hz Line lock PAL: Hor. 15,625Hz x Ver. 50Hz, 50Hz Line lock
Picture elements	NTSC: 811(H) x 508(V), 525 lines 60Hz PAL: 795(H) x 596(V), 625 lines 50Hz
Resolution	CVBS : 480TVL , Y/C : 520TVL
Sensitivity (AGC on)	0.01 Lux at F1.2, 0 Lux under IR illumination
S/N Ratio	>60dB (AGC off, AESC off, Y sig.)
Auto Electronic shutter	1/50(60) ~ 1/100,000 second
Manual elect. shutter	8 speed selection : 1/50(60), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 second
Flicker less	START: 1/100 sec., OFF: low 1/50(60) sec.
Back Light Compensation	256 detection area + enhanced center compenstr.
Auto Gain Control (AGC)	Up to 65 dB = ALC + Sample 32dB + DSP 28dB
Manual Gain Control	8 gain selection 0/6/10/12/18/22/26/28 dB
White Balance adaptation range	<b>Auto White Balance:</b> 2400°K~12000°K <b>Auto Tracking White Balance:</b> 2500°K~ 9500°K <b>Manual WB:</b> 3200°K / 4200°K / 4700°K / 6300°K
Picture aperture	Hor. 2H, Ver. 2V Enhancement
Synchronization	Internal.
Optional synchronization	Linelock, Genlock, HD/VD
Video Output	1.0 Vp-p, 75 BNC, <b>Optional:</b> Y/C output
Gamma	Adjustable 0.45 or 1.0
Visible spectrum	240nm ~ 1,200nm
D.S.P. memory format	16 Bit 256 word
D.S.P. converter ratio	8 Bit (A/D), 10Bit (D/A)
D.S.P. storage device	EEPROM
Lens mounting	C or CS mounting,
Iris compatibility	Video or DC iris , <b>Positioning:</b> AV~PX adjustable
Power voltage	DC 12~30V or AC 24V or AC 85V~AC 265V
Power consumption	3W, < 200mA
Camera mount	1/4" 20unc, Top or bottom mounting
Casing structure	Aluminum alloy, Ivory color
Dimension & weight	DC mode: 62(W) x 52(W) x 60(L) mm, 280 g. AC mode: 62(W) x 52(W) x 110(L) mm, 350 g.
Ambient Temperature	Operating: -15 ~ +60 , Storage: -30 ~ +70
Ambient Humidity	0 to 95% relative, non-condensing.
Geometric distortion	None



### Features & Characteristic:

- \* Built with 1/3" Super HAD CCD.
- \* High sensitivity 0.01 lux, Resolution 480 TVL.
- \* Super dynamic range processing between light & dark area, suitable under IR illumination.
- \* Strong image sensor to prevent light over flow.
- \* Auto gain under dark area to prevent noise.
- \* Built with smart processor chipset capable of Independent gain control between Day & Night.
- \* Multi level shutter & White balance setting.
- \* Flickerless, Back light compensation setting.
- \* Multi task of synchronization, detection windows, picture enhancement, gamma value processing.
- \* Rear panel DSP switches for easy setup.
- \* Compatible to C or CS, DC or Video iris Lens.

### Model # description

NTSC system:	PAL system:	
CPT-8050	CPT-8050P	= DC12
CPT-8050 /AC	CPT-8050P /AC	= AC85 - AC265V
CPT-8050 /DN	CPT-8050P /DN	= Auto B/W switching under low lux
CPT-8050 /IR	CPT-8050P /IR	= with IR pass crystal
CPT-8050 /YC	CPT-8050P /YC	= with Y/C signal output
CPT-8050 /A	CPT-8050P /A	= with Audio microphone

### Optional synchronization

CPT-8050 /L	CPT-8050P /L	= Linelock, AC mode
CPT-8050 /G	CPT-8050P /G	= Genlock, AC mode
CPT-8050 /HV	CPT-8050P /HV	= HD - VD lock, AC mode

### Special application

CPT-8050 /M	CPT-8050P /M	= Microscope application
CPT-8050 /S	CPT-8050P /S	= Color recognition application
CPT-8050 /E	CPT-8050P /E	= Back License Plate recognition
CPT-8050 /E500	CPT-8050P /E500	= Front License Plate recognition

Specification is subject to change without prior notification. Lens shown is optional.