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CV-S3200/S3300 SERIES

Super Sensitive DSP Color Camera



- *With new super sensitive 1/2" and 1/3" sensor EXview HAD CCD ™*
- *PAL: 752 (h) x 582 (v) pixels. NTSC: 768 (h) x 494 (v) pixels*
- *Improved sensitivity and image performance*
- *Based on latest Digital Signal Processing (DSP)*
- *VBS and Y/C video output*
- *Extended sensitivity with integration for low light applications*
- *Automatic shift from shutter to integration for wider light range*
- *Output for video controlled and direct drive iris*
- *On-screen menu control with push buttons on rear*
- *Horizontal scan reversal (mirror image) and Y/C reversal*
- *Back light compensation with selectable patterns*
- *RS 232C interface/Windows 95/98/NT setup software*

The leading manufacturer of high performance camera solutions

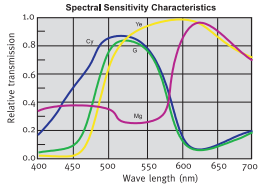
Specifications for CV-S3200/S3300 Series

Specifications	PAL	NTSC
Scanning system	625 lines 25 frames/sec. 2:1 interlaced	525 lines 30 frames/sec. 2:1 interlaced
CCD sensor	Color 1/2" and 1/3" IT EXview HAD CCD™	
Sensing area 1/2" (CV-S3200) 1/3" (CV-S3300)	6.6 (h) x 4.8 (v) mm 4.9 (h) x 3.7 (v) mm	
Effective pixels	752 (h) x 582 (v)	768 (h) x 494 (v)
Cell size 1/2" (CV-S3200) 1/3" (CV-S3300)	8.6 (h) x 8.3 (v) µm 6.5 (h) x 6.25 (v) µm	8.4 (h) x 9.8 (v) µm 6.35 (h) x 7.4 (v) µm
Resolution (horizontal)	>450 TV lines	
Sensitivity on sensor	0.09 Lux (AGC on, 50% video, 2856K) 0.025 Lux (with 4 fields integration)	
S/N ratio	>50 dB (AGC off, Gamma 1.0)	
Video output	1.0 Vpp, 75 Ohm. VBS and Y/C	
Gain mode	Fixed, AGC 12 dB, AGC 24 dB, Manual	
Gain range Fixed AGC 12 dB AGC 24 dB Manual (on-screen menu) Manual (RS 232C)	 0 dB 0 to +12 dB 0 to +24 dB 0 to +24 dB 0 to +35 dB	
Gamma	0.45 – 0.6 – 1	
White balance	3200K, 4600K, 5600K, Auto, Manual	
Iris control	Direct drive or video controlled	
Iris direct drive	±Drive and ±Damp. Level adjust	
Iris video output	1Vpp video and +9V DC	
Back light compensation	Off, Pattern 1, pattern 2, Pattern 3	
Synchronization	Internal X-tal or external lock	
External lock input	1 Vpp. VBS or composite sync.	
Scanning reversal	Off, On (horizontally mirrored)	
Shutter	Off (1/50 PAL, 1/60 NTSC), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 sec., CCD Iris	
Shutter flickerless	1/120 sec.	1/100 sec.
Extended sensitivity (Integration)	Off, Sensitive 1, Sensitive 2, Exposure time 2 or 4 fields	
Camera setup	On-screen menu or RS 232C	
Functions for on-screen menu and RS 232C	Shutter, Integration, Gain, Gamma, Back light, Scan reversal, White balance, Iris level control	
Functions RS 232C only	Y/C reversal	
Operating temperature	-5°C to +45°C	
Humidity	20-80% non-condensing	
Power	12V DC ± 10%. 3W	
Lens mount	CS-mount	
Flange back adjust	± 1 mm	
Dimensions	45 x 55 x 110.2 mm (HxWxD)	
Weight	350 g	

Ordering Information

CV-S3200P 1/2" Super Sensitive DSP Color Camera. PAL
CV-S3300P 1/3" Super Sensitive DSP Color Camera. PAL
CV-S3200N 1/2" Super Sensitive DSP Color Camera. NTSC
CV-S3300N 1/3" Super Sensitive DSP Color Camera. NTSC
Lens plug, Y/C plug and C-mount adapter are included.

Spectral Sensitivity



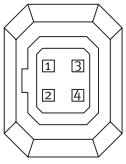
Connection Description

Y/C video out
Female



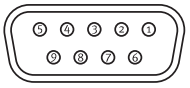
Pin 1 GND
2 GND
3 Y out
4 C out

Lens connector
Female



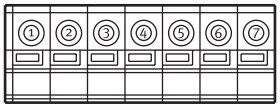
Pin 1 +9 V/-Damp
2 NC/ +Damp
3 Video/+Drive
4 GND/-Drive

DC IN/Sync./RS 232C
Sub-D. Male



Pin 1 GND
2 +12V DC
3 GND
4 Video out
5 Sync. in
6 Y out
7 C out
8 Tx out
9 Rx in

Teminal on CV-S3300
7 pin terminal

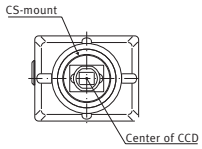


Pin 1 Rx in
2 Tx out
3 GND
4 Sync. in
5 GND
6 +12V DC
7 GND

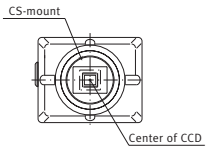
Dimensions

Front view

CV-S3200

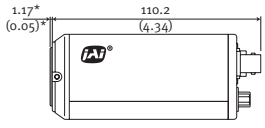


CV-S3300

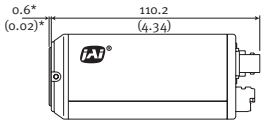


Side view

CV-S3200

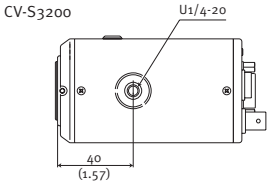


CV-S3300

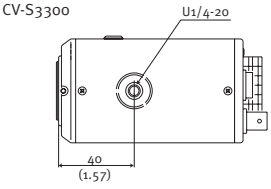


Bottom view

CV-S3200

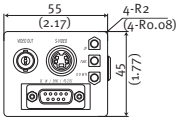


CV-S3300

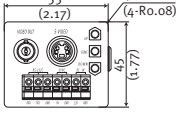


Rear view

CV-S3200



CV-S3300



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