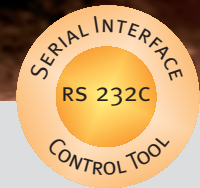




# **CV-S3200/S3300 SERIES**

## **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**

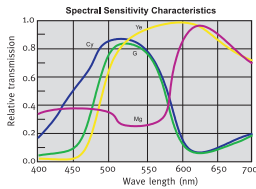
# Specifications for CV-S3200/S3300 Series

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™	
<b>Sensing area</b> 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)
<b>Cell size</b> 1/2" (CV-S3200) 1/3" (CV-S3300)	8.6 (h) x 8.3 (v) μm    8.4 (h) x 9.8 (v) μm 6.5 (h) x 6.25(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	
<b>Gain range</b> 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

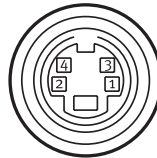
CV-S3200P 1/2" Super Sensitive DSP Color Camera. PAL  
 CV-S3300P 1/3" Super Sensitive DSP Color Camera. PAL  
 CV-S3200N 1/2" Super Sensitive DSP Color Camera. NTSC  
 CV-S3300N 1/3" Super Sensitive DSP Color Camera. NTSC  
 Lens plug, Y/C plug and C-mount adapter are included.

## Spectral Sensitivity



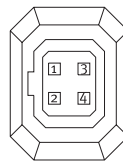
## Connection Description

### Y/C video out Female



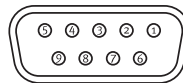
- Pin 1 GND
- 2 GND
- 3 Y out
- 4 C out

### Lens connector Female



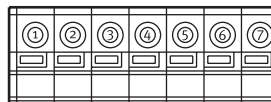
- Pin 1 +9V/-Damp
- 2 NC/+Damp
- 3 Video/+Drive
- 4 GND/-Drive

### 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

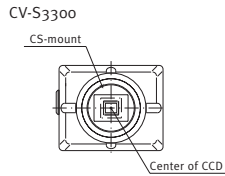
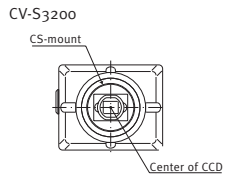
### Terminal on CV-S3300 7 pin terminal



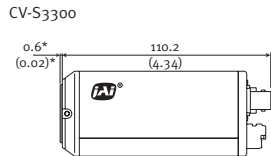
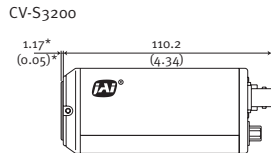
- Pin 1 Rx in
- 2 Tx out
- 3 GND
- 4 Sync. in
- 5 GND
- 6 +12V DC
- 7 GND

## Dimensions

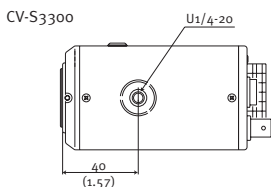
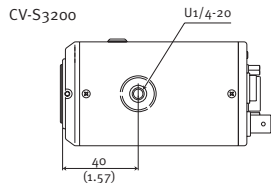
### Front view



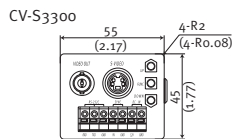
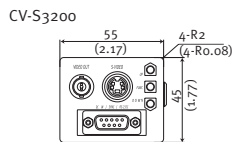
### Side view



### Bottom view



### Rear view



**JAI A-S, Denmark**  
 Phone +45 4457 8888  
 Fax +45 4491 3252  
 www.jai.com

**JAI Corporation, Japan**  
 Phone +81 45 933 5400  
 Fax +81 45 931 6142  
 www.jai-corp.co.jp

**JAI UK Ltd., England**  
 Phone +44 1442 879 669  
 Fax +44 1442 879 281  
 www.jai.com

**JAI Vision OY, Finland**  
 Phone +358 9 8256220  
 Fax +358 9 870 3345

**JAI America Inc., USA**  
 Phone (Toll-Free) +1 877 472-5909  
 Phone +1 949 472-5900  
 Fax +1 949 472-5908  
 www.jai.com



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