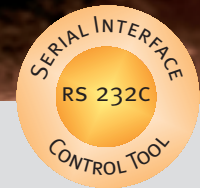




CV-S3200/S3300 SERIES

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

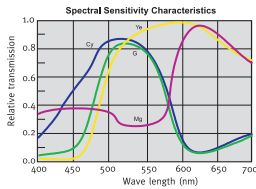
Specifications for CV-S3200/S3300 Series

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 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	
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



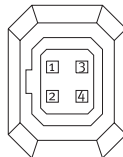
Connection Description

Y/C video out Female



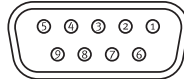
- Pin 1 GND
- 2 GND
- 3 Y out
- 4 C out

Lens connector Female



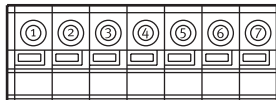
- Pin 1 +9V/-Damp
- 2 NC/+Damp
- 3 Video/+Drive
- 4 GND/-Drive

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

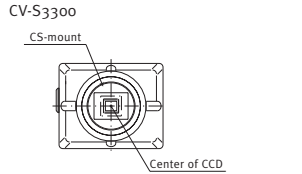
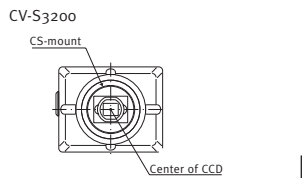
Terminal on CV-S3300 7 pin terminal



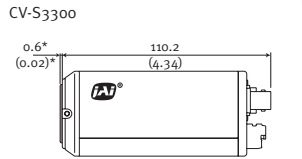
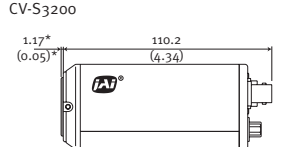
- Pin 1 Rx in
- 2 Tx out
- 3 GND
- 4 Sync. in
- 5 GND
- 6 +12V DC
- 7 GND

Dimensions

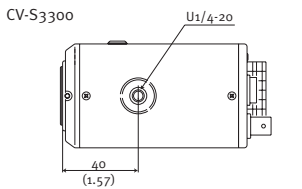
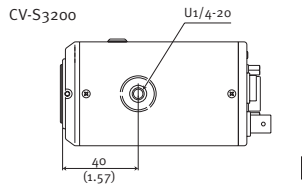
Front view



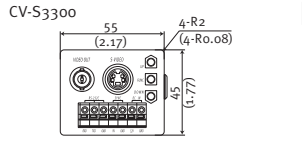
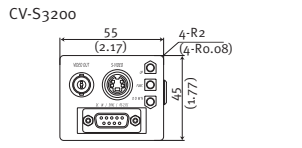
Side view



Bottom view



Rear view



JAI A-S, Denmark
 Phone +45 4457 8888
 Fax +45 4491 8880
 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



THE MECHADEMIC COMPANY

Visit our web site on www.jai.com

Company and product names mentioned in this datasheet are trademarks or registered trademarks of their respective owners. EXview HAD CCD™ is a trademark of Sony Corporation. JAI A-S cannot be held responsible for any technical or typographical errors and reserves the right to make changes to products and documentation without prior notification.