



# ***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***
- ***Long time integration up to 64 fields***
- ***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***
- ***Setup by Windows 98/NT/2000 Software via RS 232C***

***The leading manufacturer of high performance camera solutions***

# Specifications for CV-S3200/S3300 Series

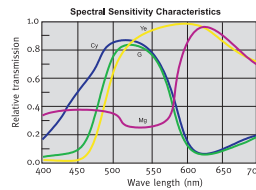
| Specifications                           | PAL   | NTSC  |
|--|---|---|
| Scanning system                          | 625 lines<br>25 frames/sec.<br>2:1 interlaced   | 525 lines<br>30 frames/sec.<br>2:1 interlaced |
| CCD sensor                               | Color 1/2" and 1/3" ITEXview HAD CCD™   |   |
| Sensing area                             | 6.6 (h) x 4.8 (v) mm<br>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) 8.6 (h) x 8.3 (v) μm<br>1/3" (CV-S3300) 6.5 (h) x 6.25(v) μm  |   |
| Sensitivity on sensor                    | 0.09 Lux (AGC on, 50% video, 2856K)<br>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 0 dB<br>AGC 12 dB 0 to +12 dB<br>AGC 24 dB 0 to +24 dB<br>Manual (on-screen menu) 0 to +24 dB<br>Manual (RS 232C) 0 to +24 dB |   |
| Gamma                                    | 0.45 - 0.6 - 1  |   |
| White balance                            | 3200K, 4600K, 5600K, Auto, Manual, One-push   |   |
| 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,<br>1/500, 1/1000, 1/2000, 1/4000,<br>1/10,000 sec., CCD Iris                               |   |
| Shutter flickerless                      | 1/120 sec.  | 1/100 sec.                                    |
| Extended sensitivity (Integration)       | Off, Sensitive 1, Sensitive 2,<br>Exposure time 2 to 64 fields  |   |
| Camera setup                             | On-screen menu or RS 232C   |   |
| Functions for on-screen menu and RS 232C | Shutter, Integration, Gain, Gamma,<br>Back light, Scan reversal, White balance,<br>Iris level control                               |   |
| Functions RS 232C only                   | Y/C reversal  |   |
| Operating temperature                    | -10°C to +50°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   |   |

\* Recommended temp.: 0°C to 40°C

## Ordering Information

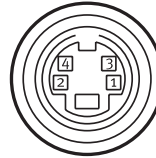
CV-S3200P 1/2" Super Sensitive DSP Color Camera. PAL  
 CV-S3300P 1/3" Super Sensitive DSP Color Camera. PAL  
 CV-S3200N 1/2" Super Sensitive DSP Color Camera. NTSC  
 CV-S3300N 1/3" Super Sensitive DSP Color Camera. NTSC  
 Lens plug, Y/C plug and C-mount adapter are included.

## Spectral Sensitivity



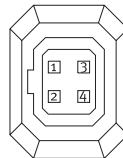
## Connection Description

### Y/C video out Female



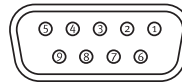
- Pin 1 GND  
 2 GND  
 3 Y out  
 4 C out

### Lens connector Female



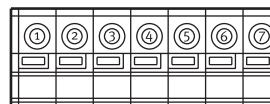
- Pin 1 +9 V/-Damp  
 2 NC/ +Damp  
 3 Iris video/+Drive  
 4 GND/-Drive

### DC IN/Sync./RS 232C Sub-D. Female



- 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

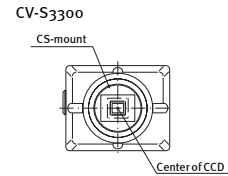
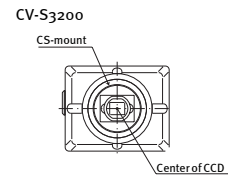
### Terminal on CV-S3300 7 pin terminal



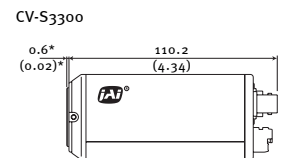
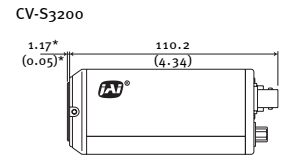
- Pin 1 Rx in  
 2 Tx out  
 3 GND  
 4 Sync. in  
 5 GND  
 6 +12V DC  
 7 GND

## Dimensions

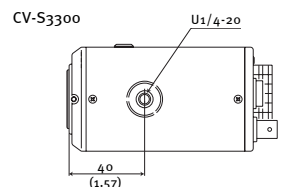
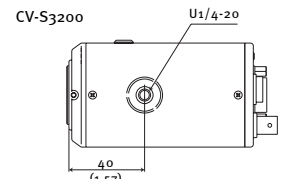
### Front view



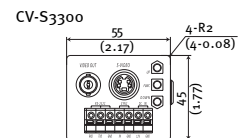
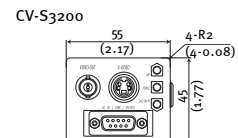
### Side view



### Bottom view



### Rear view



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