

# VIDEOLOGY®

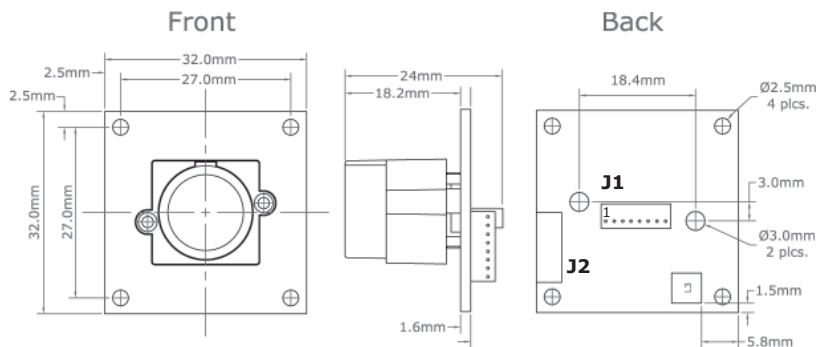
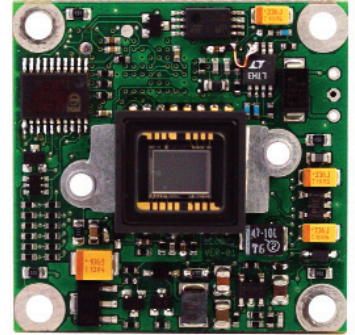
IMAGING SOLUTIONS INC.  
Original Equipment Manufacturer

## 1/3" CCD Color Board Camera With OEM Connector *Blue Sky Series*

**20D20XS/21D20XS**

### Product Features

- 1/3" Super HAD CCD (480 TVL)
- 0.05 lux sensitivity
- Miniature 32mm x 32mm single board camera
- Aerospace B&W version available (20D35XO)
- Many options available with 8-pin connector (*Minimum 100 Piece Lot Size Required*)
  - Balanced video output for CAT5/CAT6 transmission (via 8-pin connector)
- Computer controllable via I<sup>2</sup>C



Warning: J1 and J2 connectors may not be used simultaneously

### J1 Pin Out Configuration

- 1 +12VDC In
- 2 GND
- 3 Video Output
- 4 \*GND
- 5 I2C Clock
- 6 I2C Data
- 7 GND
- 8 BLC Off

\* Iris output is possible with optional configuration

### OEM Options (Via 8-pin Connector)

- Gamma and gain control
- Scan mode for non-interlaced setting
- Mirror mode preset
- Backlight compensation can be turned off (Via connector interface)
- White balance has 3 fixed modes
- Shutter speed control
- I<sup>2</sup>C communication

### Technical Specifications

<b>Electrical</b>	20D20XS	21D20XS
	NTSC	PAL
Image Sensor	1/3" Super HAD CCD	
Picture Elements	768 x 492	752 x 582
Resolution	480 TVL	
Sensitivity	< 0.05 Lux (50 IRE) f1.2, 32000K	
Signal To Noise Ratio	>48 dB (AGC off)	
Gamma	0.45	
Gain Control	AGC 36dB	
Synchronization	Internal (crystal controlled)	
Scan Mode	Interlaced	
Backlight Compensation	Default on (off via jumper)	
White Balance	AWB	
Contour Enhancement	On	
Iris Controls	Electronic	
Video Output	Composite 1Vp-p (75 ohms)	
	20/21D35XB - Balanced Video Output	
Power Supply	+12VDC (+10% / -20%)	
Power Consumption	< 1.0W	

### Environmental

Operating Temperature	-15° C ~ 55° C (5° F ~ 131° F)
Operating Humidity	20 to 93% RH
Storage Temperature	-30° C ~ 80° C (-22° F ~ 176° F)
Storage Humidity	Up to 98% RH
Lifetime	MTBF >150000 hours
Packaging	Metallized, conductive bags

Warning: Avoid aiming the camera at the sun or other extremely bright lights. The CCD image sensor may be damaged if exposed to very bright objects.

### Mechanical

Dimensions W x H x D	32mm x 32mm x 24mm w/ M-12 mount (1.26" x 1.26" x 0.94")		
Weight	8.9g (0.020 lbs)		
Lens Mounts	Replace "X" in model number with desired lens:		
Example: Change 20D20XS to 20D205S to select an M-12 board mount.	2 = Metal M-12 Pinhole	5 = Metal M-12 Board	8 = Metal CS Board

### I<sup>2</sup>C Communication Kit (Optional)\*

60D2	Software control I <sup>2</sup> C program kit includes:
60D2-U (USB version)	I <sup>2</sup> C board, Program cable, DB25 serial cable (or USB cable), Camera control software

\* Side connector and/or balanced video output will not work with this kit

### Accessories

Included	60C1041	J1 or J2 cable 8 pin AMP unterminated
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### Optional Models (*Minimum 100 Piece Lot Size Required*)

20/21D35XB	Balanced video output via 8-pin connector
20/21D35XO	OEM option, I <sup>2</sup> C controllable via 8-pin connector

**X** = lens mount option (refer to Mechanical)  
Please contact your Videology sales representative for details.

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All data subject to change without notice.

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