

VIDEOLOGY®

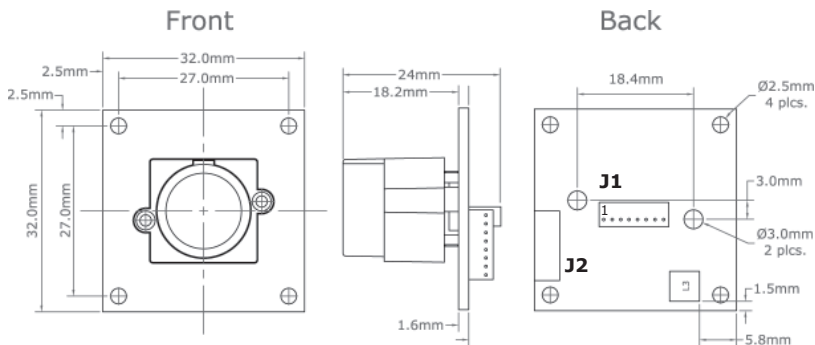
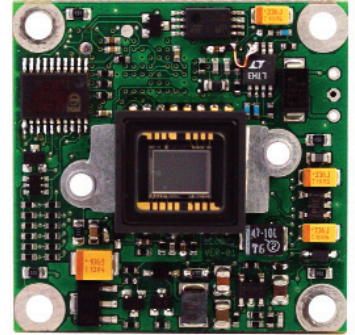
IMAGING SOLUTIONS INC.
Original Equipment Manufacturer

1/3" CCD Aerospace Grade B&W Board Camera Blue Sky Series

20D35XO/21D35XO

Product Features

- 1/3" B&W Sony Ex-View® CCD (570 TVL)
- 0.005 lux sensitivity
- Computer controllable via I²C
- Camera mounting & lens mount holes can be isolated
 - Default is chassis grounded
- Mirror mode
- A "Safe" area of 5mm is maintained around each mounting hole
- Manufactured in accordance to AS9100 standard
- Options
 - Conformal coating can mitigate the tin whiskers effect
 - Pass-thru 12VDC power output for LED array or other device



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
- I²C communication

Technical Specifications

| | 20D35XO NTSC | 21D35XO PAL |
|------------------------|---|----------------|
| Electrical | | |
| Image Sensor | 1/3" Sony Ex-View® CCD | |
| Picture Elements | 768 x 492 | 752 x 582 |
| Resolution | 570 TVL | |
| Sensitivity | < 0.005 Lux (50 IRE) f1.2, 32000K, lens transmission 80%, scene reflection 75% | |
| Signal To Noise Ratio | >48 dB (AGC off) | |
| Gamma | 0.45 (1.0 selectable via software) | |
| Gain Control | AGC 36dB Manual/fixd (selectable via software) | |
| Synchronization | Internal (crystal controlled) | |
| Scan Mode | Interlaced (default), non-interlaced and mirror image option (both selectable via software) | |
| Backlight Compensation | Default on (selectable via connector interface) | |
| Contour Enhancement | On (selectable gain via software (0 to max)) | |
| Iris Controls | Electronic | |
| Shutter Speed | Fixed shutter speeds (selectable via software) 1/60 to 1/100,000 1/50 to 1/100,000 | |
| 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 20D35XO to 20D35XO to select an M-12 board mount. | | |
| | 2 = Metal M-12 Pinhole | 5 = Metal M-12 Board | 8 = Metal CS Board |

I²C Communication Kit (Optional)*

| | |
|----------------------|--|
| 60D2 | Software control I ² C program kit includes: |
| 60D2-U (USB version) | I ² 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 | 70V0213 | J1 or J2 cable 3 pin AMP unterminated |
|----------|---------|--|

Optional Models (Minimum 100 Piece Lot Size Required)

| | |
|------------|---|
| 20/21D35XB | Balanced video output 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.

Videology® Imaging Solutions, Inc.

37M Lark Industrial Parkway
Greenville, Rhode Island 02828 USA
Tel: (401) 949 - 5332 Fax: (401) 949 - 5276
North/South American Sales: sales@videologyinc.com
SGS www.videologyinc.com

Videology® Imaging Solutions, Europe B.V.

Neutronenlaan 4
NL-5405NH Uden, The Netherlands
Tel: +31 (0) 413 256261 Fax: +31 (0) 413 251712
European Sales: info@videology.nl
www.videology.nl