



Video Cameras for Professionals

Advanced Imaging - Compact POV Shooting Machine Vision
4D Face/Body Scanning - Volumetric Capture

Volucam™:

Compact, multi-format, variable frame rate video camera with internal RAW video image storage.

Redwood™:

Colour or monochrome high resolution (12MP, 45MP or 65MP) CMOS image sensors with frame rates between 31fps and 355fps.

Victorem™:

Broad range of compact industrial video cameras featuring high performance Sony CMOS image sensors with and high-bandwidth CoaXPress video output.

Flare™ CX:

High-throughput video cameras featuring high-resolution (12MP or 48MP) and high frame rate (100fps – 149fps) options.

Flare™ CL:

High-throughput video cameras featuring high-resolution (2.2Mp, 4.2MP or 12.6MP) and high frame rate (100fps – 337fps) options.

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REPLAY CAMERAS

APPLICATIONS

Volumetric Capture Studios

Motion Capture & Event Recording

Manufacturing Process Recording

Live Sports Instant Replay



FEATURES INCLUDE:

- High Quality CMOS Image Sensors
- Internal Recording Direct to Solid State Media
- 10 Gigabit Ethernet for Control, Video Streaming and High Speed File Download
- 12G-SDI Ultra-HD Live Monitoring Output
- C-Mount or Optional Active EF-Mount
- Compact One-Piece Rugged Design
- Easily Synchronize Multiple Cameras



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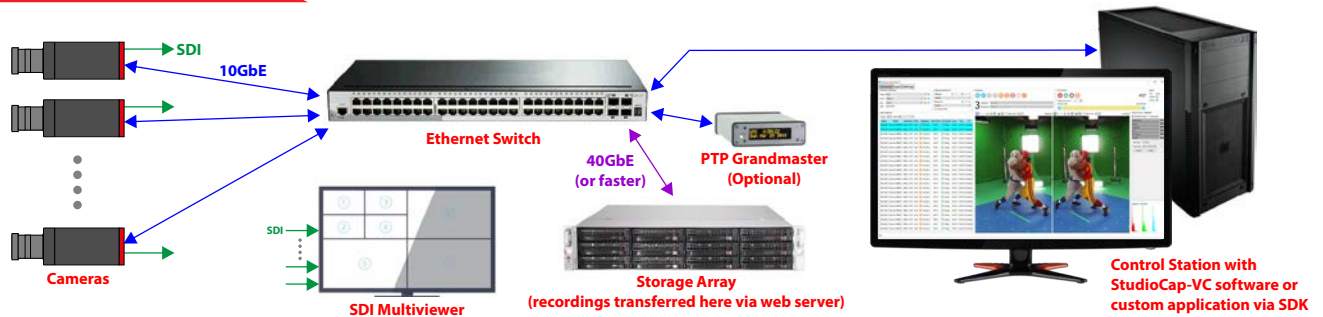
SPECIFICATIONS

| CMOS Image Sensor | Various Sony and Gpixel sensor options. See chart below. Most models available in color or monochrome (C/M). |
|------------------------------|---|
| Internal Recording | RAW video recording to internal solid state storage with 480GB, 960GB or 1920GB capacity. |
| 10 Gigabit Ethernet | Fast network interface for camera configuration, recording control, live and playback video streaming, and high-speed file transfer. SFP+ port allows various connectivity options including optical fiber or copper cabling. |
| PTP Synchronization | IEEE1588 Precision Time Protocol can be used for frame timestamping and exposure synchronization. |
| SMPT E LTC Input | LTC reference can be used for frame timestamping and exposure synchronization. |
| SDI Video Output | Live video monitoring via single-link 12G/6G/3G, supports 1080p or UHD up to 60fps. |
| Tri Level Sync Input | Sync reference can be used to synchronize SDI video output and for exposure synchronization. |
| Additional I/O | TTL-level input/output signals allow multi-camera synchronization in absence of PTP or LTC/TLS reference signals. |
| Control Interface | IO Industries StudioCap-VC software ("VC" license needed per camera) or custom application via SDK. |
| Mechanical/Electrical | |
| Dimensions / Weight | 60.2 mm (W) x 62.0 mm (H) x 130.4 mm (D), 670g (without lens). |
| Lens Mount | C-mount or optional Active EF-mount (VICLENSMOUNT-A). |
| Power Requirements | 12V DC, approx. 14W. Universal AC Adapter available (VICPWR) or AC Adapter w. TTL break-out (VICPWRIO). |
| Operating Temperature | 0°C to 45°C, 20-85% humidity (non-condensing). |

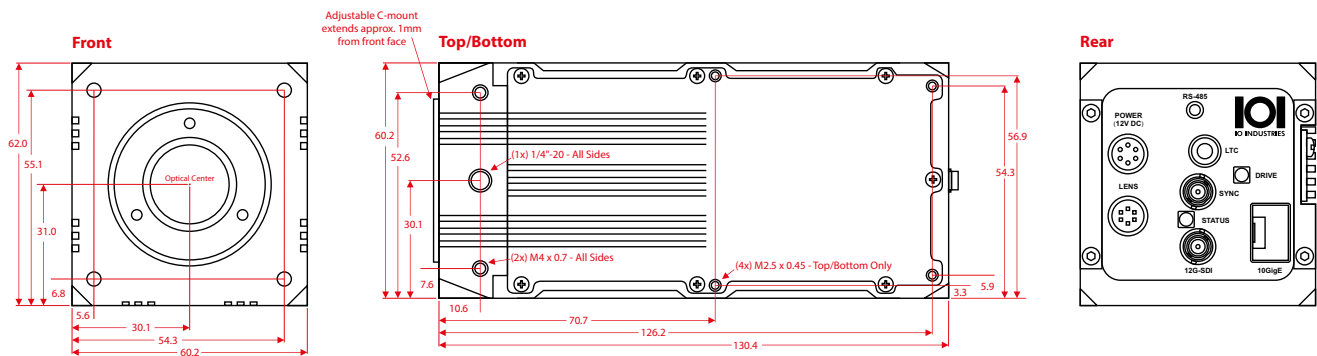
MODEL OVERVIEW

| Model | CMOS Image Sensor | Max. Resolution | Optical Format | Shutter | FPS at Max. Resolution (8/10/12-bit) |
|--------------|---------------------|-----------------|-----------------|---------|--------------------------------------|
| 24A164[C/M]V | Sony Pregius IMX174 | 1920 x 1216 | 1/1.2" (13.3mm) | Global | 164 / 164 / 128 |
| 32B216[C/M]V | Sony Pregius IMX252 | 2048 x 1544 | 1/1.8" (8.9mm) | Global | 216 / 191 / 118 |
| 32B55CV | Sony Pregius IMX265 | 2048 x 1544 | 1/1.8" (8.9mm) | Global | 55 / 55 / 55 |
| 51B163[C/M]V | Sony Pregius IMX250 | 2432 x 2056 | 2/3" (11.0mm) | Global | 163 / 144 / 89 |
| 89B93[C/M]V | Sony Pregius IMX255 | 4096 x 2176 | 1" (16.0mm) | Global | 93 / 88 / 63 |
| 89B64CV | Sony Pregius IMX305 | 4096 x 2176 | 1" (16.0mm) | Global | 63 / 63 / 63 |
| 90G120[C/M]V | Gpixel GMAX2509 | 4224 x 2160 | 2/3" (11.9mm) | Global | 120 / 100 / 85 |
| 120B68[C/M]V | Sony Pregius IMX253 | 4096 x 3008 | 1.1" (17.5mm) | Global | 68 / 64 / 46 |
| 262G41[C/M]V | Gpixel GMAX0505 | 5120 x 5120 | 1.1" (18.1mm) | Global | 41 / 36 / 30 |

SAMPLE CONFIGURATION



MECHANICAL DIAGRAMS



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REDWOOD™

12MP CAMERAS



CoaXPress

Video Cameras with AMS CMV12000 Sensors

APPLICATIONS

Automated Optical Inspection

Wide Area Observation

Virtual Reality and Special Effects

Scientific Research



FEATURES INCLUDE:

- Monochrome and Color Models
- High Resolution with High Speed Output
- Advanced Global Shutter CMOS Sensor
- Fast CoaXPress 2.0 Video Output with Coaxial or Fiber Optic Cabling Options
- Selectable 8/10/12-bit Data Formats
- Multiple Lens Mount Options
- Multi-ROI with up to 16 Separate Windows
- Flexible Image Adjustment and Enhancement



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SPECIFICATIONS

| | |
|-------------------------------------|--|
| Camera Model | Redwood 12MP |
| Sensor Size (H x V) | 4096 x 3072 (12.6 MP) |
| Frame rate (full resolution) | 335 fps (8-bit), 299 fps (10-bit), 132 fps (12-bit) |
| Optical Format | APS-C (28.1 mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Monochrome or color (Bayer) |
| Pixel Size | 5.5 x 5.5 µm |
| Dynamic Range | 59.5 dB; optional Piecewise HDR or Interleaved HDR |
| Output Configurations | 1/2/4 links at 3.125 / 5.0 / 6.25 / 10.0 / 12.5 Gbps via coaxial or fiber cabling (QSFP+) |
| Multiple ROI / Binning | Up to 16 windows with optional 2x2 binning, or with full-size window ½ subsampling can be used |
| Pixel Bit Depth | 8/10/12-bit output |
| Exposure Control | Programmable or level-controlled exposure, triggered double exposure (PIV), or auto exposure |
| Image Correction | Black level, FPN/PRNU, bad pixel replacement, FFC, denoise filter, detail enhancement filter |
| Color Processing | White balance (Auto one-shot, tracking, or manual), Gamma LUTs |
| Camera Configuration | GenICam or Redwood Control software |
| Mechanical/Electrical | |
| Dimensions | 62.0 mm x 62.0 mm x 154.7 mm (WxHxD, with F-mount) |
| Lens Mount | F-mount, M52 x 0.75 or Active Canon EF-mount |
| Weight | 715 g (with F-mount, no lens) |
| Power Requirements | Approx. 12W @ 12V DC via Hirose 6-pin, CX models support PoCXP (min. 2 links required) |
| Additional I/O | TTL-level trigger input/output |
| Operating Temperature | -10°C to 50°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

FRAME RATE CHART

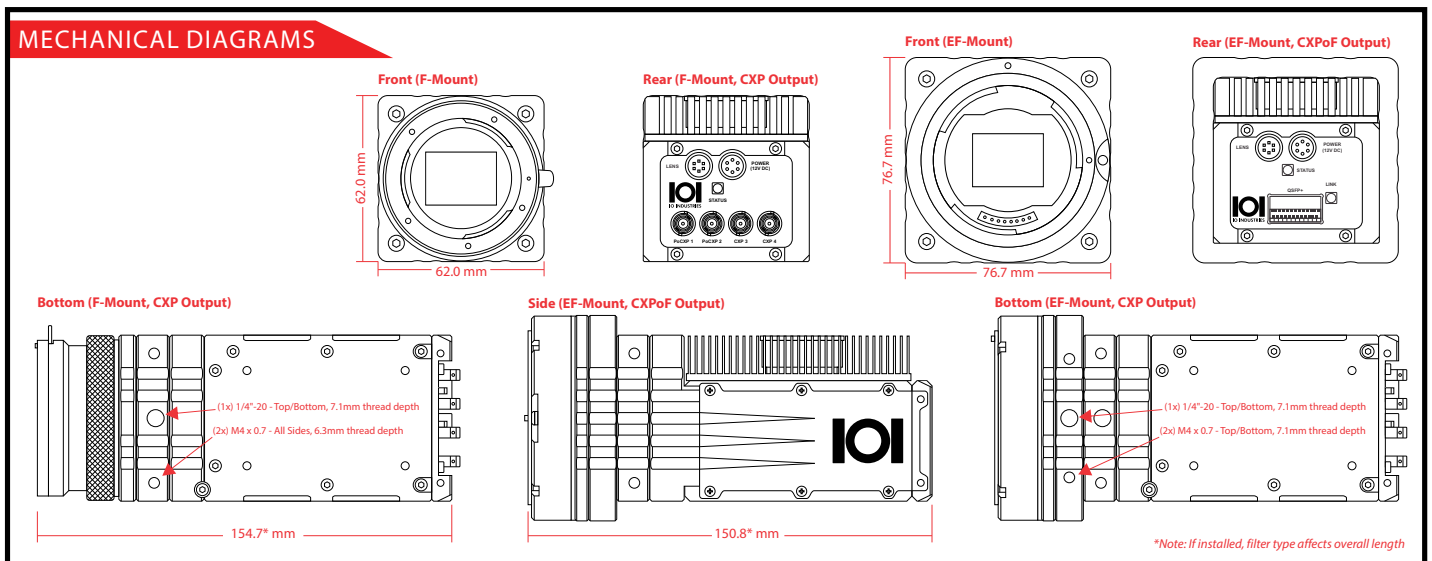
| Example Output Resolution: | CXP Connection*: | ADC Mode: | 8-bit | 10-bit | 12-bit |
|----------------------------|---------------------------------|-----------|-------|----------|-------------|
| | | Output: | 8-bit | 8/10-bit | 8/10/12-bit |
| Maximum (4096 x 3072) | 4x CXP-12 | | 335 | 299 | 132 |
| | 2x CXP-12 / 4x CXP-6 | | 188 | 150 | 125 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 94 | 75 | 62 |
| 4K UHD (3840 x 2160) | 4x CXP-12 | | 475 | 424 | 187 |
| | 2x CXP-12 / 4x CXP-6 | | 266 | 213 | 177 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 133 | 107 | 89 |
| HD 1080p (1920 x 1080) | 4x CXP-12 | | 936 | 838 | 371 |
| | 2x CXP-12 / 4x CXP-6 | | 936 | 838 | 371 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 528 | 424 | 352 |

*both Coaxial and CoaXPress-over-Fiber models support configurations up to 4x CXP-12

ORDERING

Example: **120C335CCX-F**

| | |
|---|---|
| Camera 120C335 | Lens Type F - F-mount M - M52 x 0.75 A - Active EF-mount AO - Active EF-mount w. OLPF/IR-Cut Filter |
| Sensor Type M - Monochrome C - Color (with IR-Cut filter) | Interface CX - CoaXPress (Coaxial) CQ - CoaXPress-over-Fiber (QSFP+) |



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REDWOOD™

45MP CAMERAS



CoaXPress

Video Cameras with ON Semiconductor XGS 45000 Sensors

APPLICATIONS

Automated Optical Inspection

Wide Area Observation

Virtual Reality and Special Effects

Scientific Research



FEATURES INCLUDE:

- Monochrome and Color Models
- High Resolution with High Speed Output
- Advanced Global Shutter CMOS Sensor
- Fast CoaXPress 2.0 Video Output
- Selectable 8/10/12-bit Data Formats
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SPECIFICATIONS

| | |
|---------------------------------------|--|
| Camera Model | Redwood 45MP CXP |
| Sensor Size (H x V) | 8192 x 5468 (44.7 MP) |
| Frame rate (full resolution) | 52 fps (8-bit), 52 fps (10-bit), 47 fps (12-bit) |
| Optical Format | Super 35 (31.5 mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Monochrome or color (Bayer) |
| Pixel Size | 3.2 x 3.2 μ m |
| Dynamic Range | 67.5 dB (up to 73dB with dual gain HDR) |
| Output Configurations | 1/2/4 links at 3.125 / 5.0 / 6.25 / 10.0 / 12.5 Gbps (4x HD-BNC connectors) |
| Multiple ROI / Binning | Up to 16 windows with optional 2x2 binning, or with full-size window 1/2 subsampling can be used |
| Pixel Bit Depth | 8/10/12-bit output |
| Exposure Control | Trigger width, timed or auto-exposure |
| Image Correction | Black level, FPN, bad pixel replacement, FFC, denoise filter, detail enhancement filter |
| Color Processing | White balance (Auto one-shot, tracking, or manual), Black balance (auto or manual), Gamma LUTs |
| Camera Configuration | GenICam or Redwood Control software |
| Mechanical/Electrical | |
| Dimensions | 62.0 mm x 62.0 mm x 154.7 mm (WxHxD, with F-mount) |
| Lens Mount | F-mount, M52 x 0.75 or Active Canon EF-mount |
| Weight | 715 g (with F-mount, no lens) |
| Power Requirements | Approx. 12W @ 12V DC via Hirose 6-pin or 13.5W @ 24V via PoCXP (2 PoCXP links required) |
| Additional I/O (Hirose 12-pin) | TTL-level trigger input/output |
| Operating Temperature | -10°C to 50°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

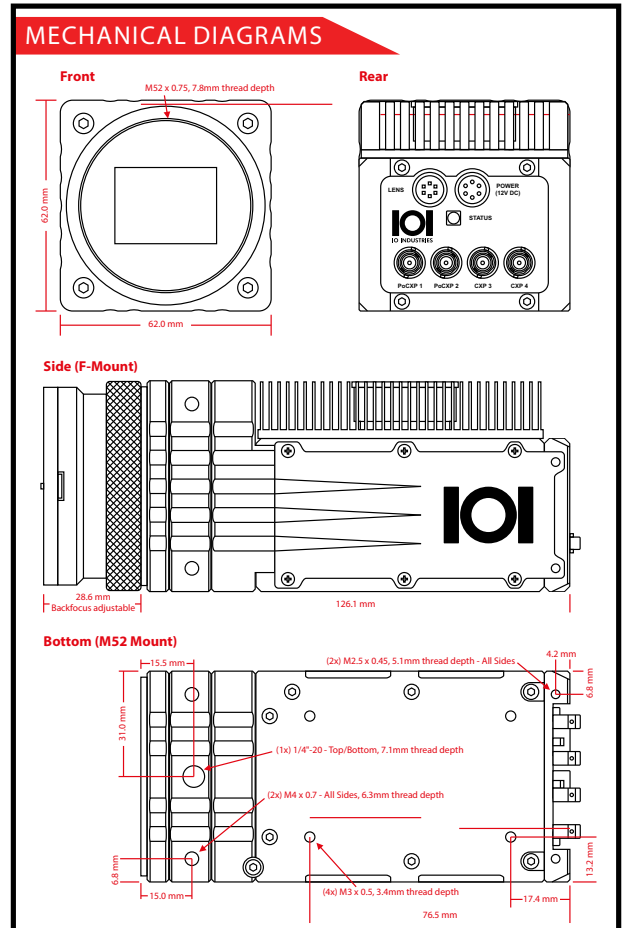
ORDERING

Example: 447X52MCX-F

| | |
|---|---|
| Camera 447X52 | Lens Type F - F-mount M - M52 x 0.75 (18.92mm flange focal distance) A - Active EF-mount |
| Sensor Type M - Monochrome C - Color (with IR filter) | Interface CX - CoaXPress |

FRAME RATE CHART

| Example Output Resolution: | CXP Connection: | ADC Mode: Output: | 10-bit | | 12-bit | | |
|----------------------------|---------------------------------|-------------------|--------|--------|--------|--------|--------|
| | | | 8-bit | 10-bit | 8-bit | 10-bit | 12-bit |
| Maximum (8192 x 5468) | 4x CXP-12 | | 52 | 52 | 47 | 47 | 47 |
| | 2x CXP-12 / 4x CXP-6 | | 52 | 41 | 47 | 47 | 34 |
| | 2x CXP-10 / 4x CXP-5 | | 38 | 30 | 38 | 30 | 25 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 26 | 20 | 26 | 20 | 17 |
| Maximum 1:1 (5440 x 5440) | 4x CXP-12 | | 52 | 52 | 48 | 48 | 48 |
| | 2x CXP-12 / 4x CXP-6 | | 52 | 52 | 48 | 48 | 48 |
| | 2x CXP-10 / 4x CXP-5 | | 39 | 31 | 39 | 31 | 26 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 52 | 46 | 48 | 46 | 38 |
| 8K UHDV2 (7680 x 4320) | 4x CXP-12 | | 65 | 65 | 60 | 60 | 60 |
| | 2x CXP-12 / 4x CXP-6 | | 65 | 56 | 60 | 56 | 46 |
| | 2x CXP-10 / 4x CXP-5 | | 35 | 28 | 35 | 28 | 23 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 51 | 41 | 51 | 41 | 34 |



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REDWOOD™

65MP CAMERAS



Video Cameras with Gpixel GMAX3265 Sensors

APPLICATIONS

Automated Optical Inspection

Wide Area Observation

Virtual Reality and Special Effects

Scientific Research



FEATURES INCLUDE:

- Monochrome and Color Models
- High Resolution with High Speed Output
- Charge-Domain Global Shutter CMOS Sensor
- Fast CoaXPRESS 2.0 Video Output
- Selectable 8/10/12-bit Data Formats
- Multiple Lens Mount Options
- Multi-ROI with up to 16 Separate Windows
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SPECIFICATIONS

| | |
|---------------------------------------|--|
| Camera Model | Redwood 65MP CXP |
| Sensor Size (H x V) | 9344 x 7000 (65.4 MP) |
| Frame rate (full resolution) | 71 fps (8-bit), 57 fps (10-bit), 31 fps (12-bit) |
| Optical Format | 35mm Full Frame (37.4 mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Monochrome or color (Bayer) |
| Pixel Size | 3.2 x 3.2 μ m |
| Dynamic Range | 66 dB (12-bit ADC mode), 62.3dB (10-bit ADC mode) |
| Output Configurations | 1/2/4 links at 3.125 / 5.0 / 6.25 / 10.0 / 12.5 Gbps (4x HD-BNC connectors) |
| Multiple ROI / Binning | Up to 16 windows with optional 2x2 binning, or with full-size window 1/2 subsampling can be used |
| Pixel Bit Depth | Selectable 8/10/12-bit output from 10-bit (high-speed) or 12-bit (high dynamic range) ADC modes |
| Exposure Control | Trigger width, timed, auto-exposure or row-interleaved HDR |
| Image Correction | Black level, FPN/PRNU, bad pixel replacement, FFC, denoise filter, detail enhancement filter |
| Color Processing | White balance (Auto one-shot, tracking, or manual), Black balance (auto or manual), Gamma LUTs |
| Camera Configuration | GenICam or Redwood Control software |
| Mechanical/Electrical | |
| Dimensions | 62.0 mm x 62.0 mm x 154.7 mm (WxHxD, with F-mount) |
| Lens Mount | F-mount, M52 x 0.75 or Active Canon EF-mount |
| Weight | 715 g (with F-mount, no lens) |
| Power Requirements | Approx. 12W @ 12V DC via Hirose 6-pin or 13.5W @ 24V via PoCXP (2 PoCXP links required) |
| Additional I/O (Hirose 12-pin) | TTL-level trigger input/output |
| Operating Temperature | -10°C to 50°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

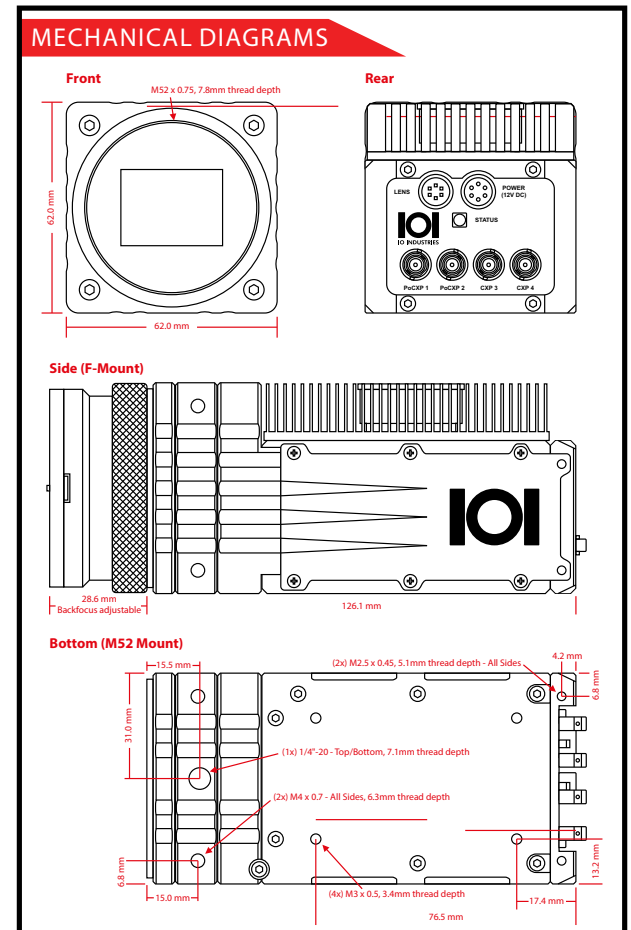
ORDERING

Example: 654G71MCX-F

| | |
|---|---|
| Camera 654G71 | Lens Type F - F-mount M - M52 x 0.75 (18.08mm flange focal distance) A - Active EF-mount |
| Sensor Type M - Monochrome C - Color (with IR filter) | Interface CX - CoaXPress |

FRAME RATE CHART

| Example Output Resolution: | CXP Connection: | ADC Mode: Output: | 10-bit | | 12-bit | | |
|----------------------------|---------------------------------|-------------------|--------|--------|--------|--------|--------|
| | | | 8-bit | 10-bit | 8-bit | 10-bit | 12-bit |
| Maximum (9344 x 7000) | 4x CXP-12 | | 71 | 57 | 31 | 31 | 31 |
| | 2x CXP-12 / 4x CXP-6 | | 35 | 28 | 31 | 28 | 23 |
| | 2x CXP-10 / 4x CXP-5 | | 26 | 20 | 25 | 20 | 17 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 17 | 14 | 17 | 14 | 11 |
| Maximum 1:1 (7040 x 7000) | 4x CXP-12 | | 71 | 71 | 31 | 31 | 31 |
| | 2x CXP-12 / 4x CXP-6 | | 47 | 38 | 31 | 31 | 31 |
| | 2x CXP-10 / 4x CXP-5 | | 34 | 27 | 31 | 27 | 22 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 23 | 19 | 23 | 18 | 15 |
| 8K UHDV2 (7680 x 4320) | 4x CXP-12 | | 114 | 112 | 51 | 51 | 51 |
| | 2x CXP-12 / 4x CXP-6 | | 69 | 56 | 51 | 51 | 46 |
| | 2x CXP-10 / 4x CXP-5 | | 51 | 41 | 51 | 41 | 34 |
| | 1x CXP-12 / 2x CXP-6 / 4x CXP-3 | | 35 | 28 | 34 | 28 | 23 |



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VICTOREM™ SERIES



INDUSTRIAL COAXPRESS CAMERAS



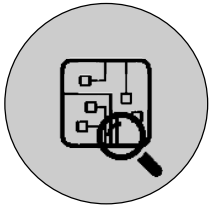
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APPLICATIONS



PCB Inspection



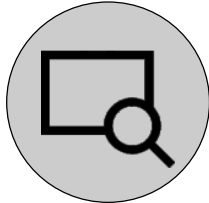
Virtual & Augmented Reality



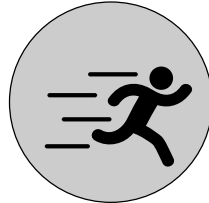
Scientific Research



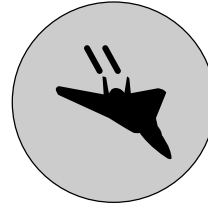
Motion Capture



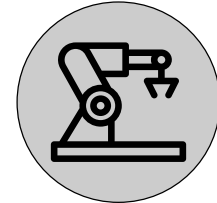
LCD Inspection



Slow Motion Imaging



Aerospace & Defense



Factory Automation

FRAME RATE CHART (8-bit, Single/Dual-Link)

| | 4B523 | 16B276 | 24A164 | 32B216 | 51B163 | 89B93 | 120B68 | 262G41 | 205R26 |
|--------------------|-------------|-------------|-----------|-------------|-------------|-----------|-----------|-----------|---------|
| 320 x 240 | 1088 / 1088 | 1106 / 1106 | 640 / 640 | 1230 / 1230 | 1230 / 1230 | 711 / 711 | 711 / 711 | 832 / 832 | 59 / 59 |
| 640 x 480 | 587 / 587 | 597 / 597 | 429 / 429 | 660 / 660 | 660 / 660 | 391 / 391 | 391 / 391 | 431 / 431 | 59 / 59 |
| 800 x 600 | - | 485 / 485 | 343 / 343 | 536 / 536 | 536 / 536 | 319 / 319 | 319 / 319 | 347 / 347 | 59 / 59 |
| 1280 x 720 | - | 409 / 409 | 286 / 286 | 451 / 451 | 451 / 451 | 270 / 270 | 270 / 270 | 291 / 291 | 59 / 59 |
| 1920 x 1080 | - | - | 190 / 190 | 277 / 306 | 276 / 306 | 184 / 184 | 184 / 184 | 195 / 195 | 59 / 59 |
| 2064 x 1544 | - | - | - | 183 / 216 | 182 / 216 | 130 / 130 | 130 / 130 | 137 / 137 | 59 / 59 |
| 2048 x 2048 | - | - | - | - | 139 / 164 | 99 / 99 | 99 / 99 | 104 / 104 | 59 / 59 |
| 2464 x 2056 | - | - | - | - | 116 / 163 | 99 / 99 | 99 / 99 | 103 / 103 | 59 / 59 |
| 4096 x 2160 | - | - | - | - | - | 66 / 94 | 66 / 94 | 63 / 98 | 59 / 59 |
| 4112 x 3008 | - | - | - | - | - | - | 47 / 68 | 45 / 71 | 32 / 32 |
| 5120 x 5120 | - | - | - | - | - | - | - | 21 / 41 | - |
| 5472 x 3672 | - | - | - | - | - | - | - | - | 26 / 26 |

ACCESSORIES

| Part Number | Description |
|----------------|---|
| VICPWR | AC to 12V DC Power Adapter (Universal), for use if PoCXP not supplied |
| VICPWRI0 | AC to 12V DC Power Adapter (Universal) with (2) BNC for TTL I/O |
| CABVICIO | TTL I/O cable, 6-pin Hirose to (2) BNC, 0.1m length, no power adapter (use PoCXP) |
| VICLENSMOUNT-A | Lens Adapter, C to Active EF-mount, requires VICPWRI02 |
| VICPWRI02 | AC to 12V DC Power Adapter (Universal) with cable for VICLENSMOUNT-A |
| VICMOUNT | Tripod Mounting Plate, can be installed on all sides of camera |
| VICMOUNT-A | Tripod Mounting Plate (tall), for use with VICLENSMOUNT-A |

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SPECIFICATIONS

| Camera Model | 4B523 | 16B276 | 24A164 | 32B216 | 51B163 | 89B93 | 120B68 | 262G41 | 205R26 |
|--|--|-----------------|-----------------|-----------------|----------------|--------------|---------------|-----------------|------------------------|
| Sensor | Sony IMX287 | Sony IMX273 | Sony IMX174 | Sony IMX252 | Sony IMX250 | Sony IMX255 | Sony IMX253 | Gpixel GMAX0505 | Sony IMX183 |
| Sensor Size (H x V) | 720 x 544 | 1456 x 1088 | 1920 x 1200 | 2064 x 1544 | 2464 x 2056 | 4112 x 2176 | 4112 x 3008 | 5120 x 5120 | 5472 x 3672 |
| Max. Frame Rate (8 / 10 / 12-bit) | 523 / 436 / 319 | 276 / 226 / 165 | 164 / 164 / 128 | 216 / 191 / 167 | 163 / 144 / 89 | 93 / 88 / 63 | 68 / 64 / 46 | 41 / 35 / 28 | 26 / 26 / 22 |
| Max. Single-Link Frame Rate | 523 / 436 / 319 | 276 / 226 / 165 | 164 / 164 / 128 | 183 / 146 / 118 | 116 / 93 / 77 | 65 / 52 / 43 | 47 / 38 / 31 | 21 / 17 / 14 | 26 / 23 / 19 |
| Optical Format (Diagonal) | 1/3" (6.3mm) | 1/3" (6.3mm) | 1/1.2" (13.4mm) | 1/1.8" (8.9mm) | 2/3" (11.1mm) | 1" (16.1mm) | 1.1" (17.6mm) | 1.1" (18.1mm) | 1" (15.9mm) |
| Sensor Type | CMOS | | | | | | | | |
| Shutter Type | Global Shutter | | | | | | | | Rolling (Global Reset) |
| Sensor Options | Monochrome or Color (Bayer) | | | | | | | | |
| Pixel Size | 6.9 x 6.9µm | 3.45 x 3.45µm | 5.86 x 5.86µm | 3.45 x 3.45µm | | | | 2.5 x 2.5µm | 2.4 x 2.4µm |
| Dynamic Range | 76.5 dB | 73.6 dB | | | | | | 65.8dB | 72.0 dB |
| SNRmax | 43.2 dB | 40.4 dB | 44.8 dB | 40.4 dB | | | | 36.5dB | 41.8 dB |
| Output Configurations | CoaXPress (v1.1), 1 or 2 links at 2.50Gbps (CXP-2), 3.125Gbps (CXP-3), 5.0Gbps (CXP-5) or 6.25Gbps (CXP-6) | | | | | | | | |
| Multiple ROI | Not Supported | Up to 2 | Up to 4 | Up to 8 | | | | Not Supported | |
| Pixel Bit Depth | 8 / 10 / 12-bit | | | | | | | | |
| Exposure Control | Trigger width, timed, or auto-exposure control | | | | | | | | Timed or Auto |
| Image Correction | Black level correction, bad pixel replacement | | | | | | | | |
| Color Processing | Auto white balance (tracking or manual), programmable LUTs | | | | | | | | |
| Camera Configuration | GenICam or Victorem Control software | | | | | | | | |

MECHANICAL / ELECTRICAL

| | |
|------------------------------|--|
| Dimensions | 33.0 mm x 44.0 mm x 53.7 mm (WxHxD) |
| Lens Mount | C-mount or Active EF-mount |
| Weight | 140 g |
| Power Requirements | 24V via PoCXP or 7-30 V direct DC, 3-4 W |
| Additional I/O | TTL-level trigger input / output |
| Operating Temperature | -30°C to 65°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |
| Operational Shock | Tested per MIL-STD-810G Method 516.6, 3-axis Shock 75G |
| Operational Vibration | Tested per MIL-STD-810G Method 514.6, 3-axis Vibration Cat. 20 |

ORDERING

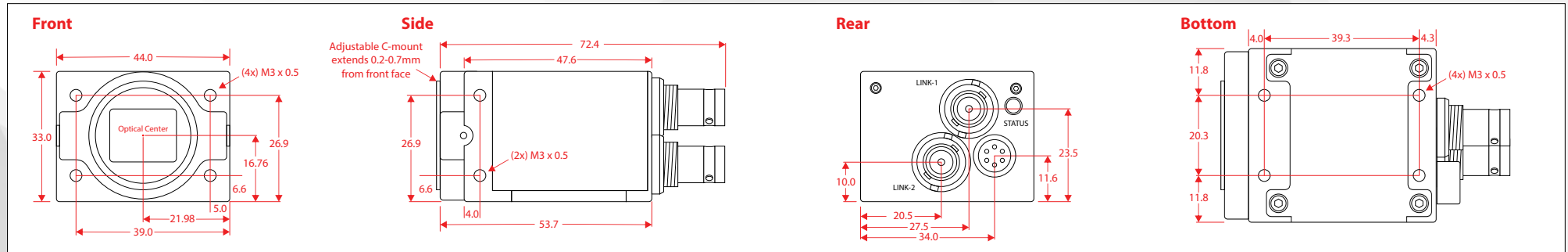
Example: 4B523MCX

Camera
4B523

Interface
CX - CoaXPress

Sensor Type
M - Monochrome
C - Color (with IR filter)

DIAGRAMS



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VICTOREM™ 2KSDI-MINI



3G-SDI HDR CAMERAS

APPLICATIONS

Aircraft and Vehicle Recording

Test Range Instrumentation

Specialty Video Production

Security and Surveillance



FEATURES INCLUDE:

- High Quality Sony CMOS Sensors
- Dual 3G/HD-SDI Outputs
- 2K, 1080p, 1080i and 720p up to 60 fps
- C-mount or optional Active EF-mount
- 10-bit 4:2:2, 4:4:4, or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via on Screen Menu



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SPECIFICATIONS

| | | |
|------------------------------------|--|--|
| Camera Model | 2KSDI-Mini | 2KSDI-Mini RS |
| Sensor | Sony Pregius IMX265 | Sony Exmor-R IMX183 |
| Output Modes | 2K, 1080p, 1080i, 720p, up to 60 fps | 2K, 1080p, 1080i, up to 60 fps |
| Optical Format | 1/2" (2K: 8.0mm diagonal, 720p/1080p/1080i: 7.6mm diagonal) | 2/3" (2K: 11.1mm diagonal, 1080p: 10.6mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter | CMOS w. rolling shutter |
| Sensor Options | Color (Bayer) or monochrome | |
| Dynamic Range | 73.6 dB | 72.0 dB |
| Output Interface | Single-Link 3G/HD-SDI (SMPTE ST 292/424); dual outputs with optional OSD overlay on SDI1 | |
| Output Format | 10-bit 4:2:2(Y'Cb'Cr'), 4:4:4 (RGB) or RAW (Bayer) | |
| Exposure Control | Automatic (adjusts exposure, gain and/or iris if available) or manual exposure | |
| Image Enhancement | Gamma (1D LUTs), master pedestal control, adjustable sharpening | |
| Color Control | Auto white balance or calibrated presets, color correction matrix, RGB offsets, saturation control | |
| Synchronization | Tri-level sync input | |
| Camera Configuration | RS-485; use handheld remote for OSD, USB adapter for PC software or direct ASCII protocol | |
| Mechanical/Electrical | | |
| Dimensions | 33.0 mm x 44.0 mm x 53.7 mm | |
| Lens Mount | C-mount; optionally supporting Active EF-mount or DC Auto Iris lenses (see Ordering) | |
| Camera Mounting Points | Top/Sides: 2x M3 x 0.5; Bottom: 4x M3 x 0.5; Tripod mounting plate available (P/N VICMOUNT) | |
| Weight | 140g | |
| Power Requirements | 3.7W, 7-19V DC | |
| Operating Temperature | -30°C to 65°C, 20-85% humidity (non-condensing) | |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) | |
| Operational Shock/Vibration | Tested per MIL-STD-810G Method 516.6, 3-axis Shock 75G and Method 514.6, 3-axis Vibration Cat. 20 | |

OUTPUT MODES

Single-Link HD-SDI:

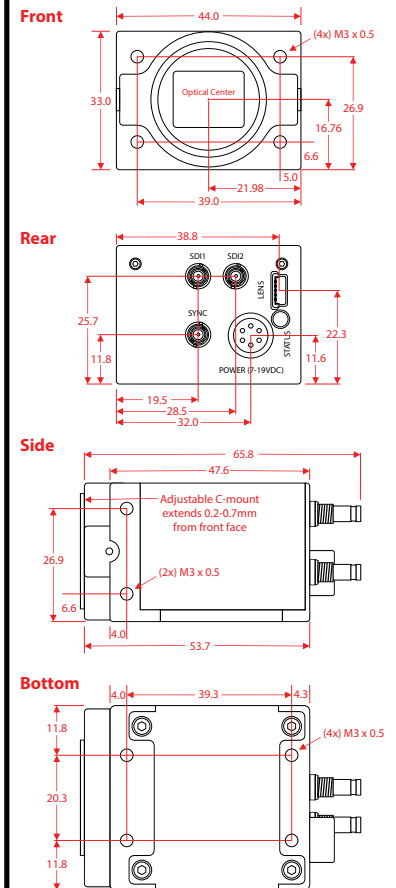
| | |
|-------------------------|--------------------------|
| 720p* 10-bit 4:2:2/RAW: | 50, 59.94, 60 |
| 1080i 10-bit 4:2:2/RAW: | 50, 59.94, 60 |
| 1080p 10-bit 4:2:2/RAW: | 23.98, 24, 25, 29.97, 30 |
| 2K 10-bit 4:2:2/RAW: | 23.98, 24, 25, 29.97, 30 |

*Not available for 2KSDIMINIRS or 2KSDIMINIRSD

Single-Link 3G-SDI:

| | |
|-------------------------|--------------------------|
| 1080p 10-bit 4:2:2/RAW: | 50, 59.94, 60 |
| 1080p 10-bit 4:4:4: | 23.98, 24, 25, 29.97, 30 |
| 2K 10-bit 4:2:2/RAW: | 47.95, 48, 50, 59.94, 60 |
| 2K 10-bit 4:4:4: | 23.98, 24, 25, 29.97, 30 |

MECHANICAL DIAGRAMS



ORDERING

| Part Number | Description |
|--------------|---|
| 2KSDIMINI | Color camera, GS sensor, supports Active EF lens adapter |
| 2KSDIMINIRS | Color camera, RS sensor, supports Active EF lens adapter |
| 2KSDIMINID | Color camera, GS sensor, supports DC Auto Iris lens control |
| 2KSDIMINIRSD | Color camera, RS sensor, supports DC Auto Iris lens control |
| 2KMSDIMINI | Monochrome camera, GS sensor, supports Active EF lens adapter |
| 2KMSDIMINID | Monochrome camera, GS sensor, supports DC Auto Iris lens control |
| 2KM5SDIMINI | Monochrome camera, GS 5.1MP sensor w. adjustable crop position, supports Active EF lens adapter |

For a complete camera kit with common accessories, add "KIT" to Part Number, ie. 2KSDIMINIKIT. Includes selected camera, CABVICBATT, ACPWRTAP, 485HRMT, CABUSB4852M, and VICMOUNT.

ACCESSORIES

| Part Number | Description |
|----------------|---|
| VICPWRLIO | AC Power Adapter (Universal) with LEMO for RS485 |
| CABVICBATT | Battery Power Cable with PowerTap connector and LEMO for RS485 |
| ACPWRTAP | AC Power Adapter (Universal) with PowerTap connector |
| 485HRMT | Handheld remote control w. RS485 interface, for camera control from on-screen display |
| CABUSB4852M | USB to RS485 adapter cable, 2m, for camera control from PC software |
| CABLEMO3M | RS485 extension cable (LEMO to LEMO), 3m |
| VICLENSMOUNT-A | Lens Mount Adapter, C-mount to Active EF-mount, requires CAB2KMINIAEF |
| CAB2KMINIAEF | Adapter cable, connects 2KSDI-Mini to VICLENSMOUNT-A |
| CAB2KMINIDCI | Adapter cable, connects 2KSDI-Mini to DC Auto Iris Lens |
| VICMOUNT | Tripod Mounting Plate, can be installed on all sides of camera |

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4KSDI-MINI



12G-SDI POV CAMERAS

APPLICATIONS

Aircraft and Vehicle Recording

Test Range Instrumentation

Specialty Video Production

Security and Surveillance



FEATURES INCLUDE:

- High-quality Sony CMOS Sensors
- 12G / 6G / 3G / HD-SDI Output Formats
- 4K/UHD output or scaled 2K/HD output
- C-mount, Passive MFT-mount or Active EF-mount
- 10-bit 4:2:2, 4:4:4, or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via On Screen Menu



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SPECIFICATIONS

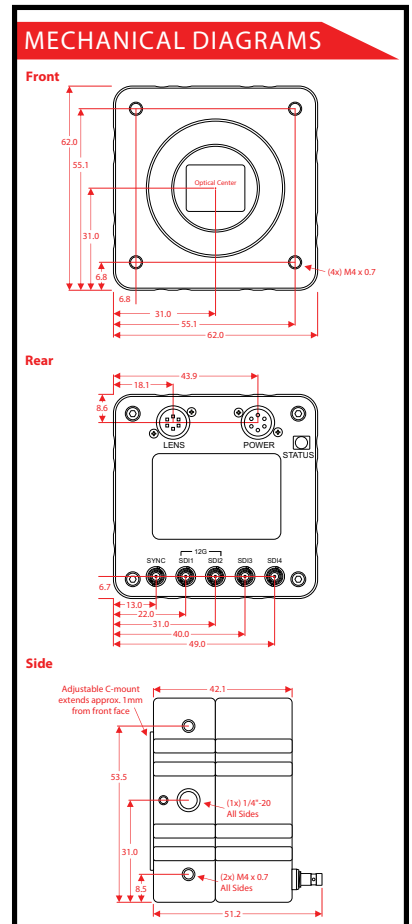
| | | |
|------------------------------------|---|--|
| Camera Model | 4KSDI-Mini | 4KSDI-Mini RS |
| Sensor | Sony Pregius IMX305 | Sony Exmor-R IMX183 |
| Output Modes | 4K, UHD, 2K, 1080p, up to 60 fps | |
| Optical Format | 4K/2K: 1" (16.0mm diagonal) UHD/1080p: approx. 1" (15.2mm diagonal) | 4K/2K: Approx. 2/3" (11.1mm diagonal) UHD/1080p: 2/3" (10.6mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter | CMOS w. rolling shutter |
| Sensor Options | Color (Bayer) or Monochrome | |
| Dynamic Range | 73.6 dB | 72.0 dB |
| Output Interface | Single-Link 12G/6G/3G/HD-SDI, Dual-Link 3G-SDI, Quad-Link 3G-SDI (SMPTE ST 292/424/2081/2082) | |
| Output Format | 10-bit 4:2:2(Y'Cb'Cr'), 4:4:4 (RGB) or RAW (Bayer) | |
| Exposure Control | Automatic (adjusts exposure, gain and/or iris if available) or manual exposure | |
| Image Enhancement | Gamma (1D LUTs), master pedestal control, adjustable sharpening | |
| Color Control | Auto white balance or calibrated presets, 3D LUTs, color correction matrix, RGB offsets, saturation control | |
| Synchronization | Tri-level sync input | |
| Camera Configuration | RS-485; use handheld remote for OSD, USB adapter for PC software or direct ASCII protocol | |
| Mechanical/Electrical | | |
| Dimensions | 62.0 mm x 62.0 mm x 42.1 mm | |
| Lens Mount | C-mount (optionally supporting Active EF-Mount or DC Auto Iris lenses) or passive MFT-mount | |
| Camera Mounting Points | All 4 sides: 1/4"-20 with 2x M4 x 0.7; Front Surface: 4x M4 x 0.7 | |
| Weight | 325g (C-mount), 315g (MFT-mount), 550g (C-mount w. Active EF lens adapter attached) | |
| Power Requirements | 7.5W, 7-19V DC | 6.5W, 7-19V DC |
| Operating Temperature | -30°C to 65°C, 20-85% humidity (non-condensing) | |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) | |
| Operational Shock/Vibration | Tested per MIL-STD-810G Method 516.6, 3-axis Shock 75G and Method 514.6, 3-axis Vibration Cat. 20 | |

| OUTPUT MODES | |
|--|---|
| Single-Link HD-SDI: | Single-Link 6G-SDI or Dual-Link 3G-SDI: |
| 1080p 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30 | UHD 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30 |
| 2K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30 | 4K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30 |
| Single-Link 3G-SDI: | Single-Link 12G-SDI or Quad-Link 3G-SDI: |
| 1080p 10-bit 4:2:2/RAW: 50, 59.94, 60 | UHD 10-bit 4:2:2/RAW: 50, 59.94, 60 |
| 1080p 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30 | UHD 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30 |
| 2K 10-bit 4:2:2/RAW: 47.95, 48, 50, 59.94, 60 | 4K 10-bit 4:2:2/RAW: 47.95, 48, 50, 59.94, 60 |
| 2K 10-bit 4:4:4: 23.98, 24, 25, 29.97, 30 | 4K 10-bit 4:4:4/RAW: 23.98, 24, 25, 29.97, 30 |

| ORDERING | |
|---------------|--|
| Part Number | Description |
| 4KSDIMINI | Color camera, GS sensor, supports Active EF lens adapter |
| 4KMSDIMINI | Monochrome camera, GS sensor, C-mount, supports Active EF lens adapter |
| 4KSDIMINID | Color camera, GS sensor, supports DC Auto Iris lens control |
| 4KSDIMINI-M | Color camera, GS sensor, MFT-mount |
| 4KSDIMINIRS | Color camera, RS sensor, supports Active EF lens adapter |
| 4KSDIMINIRS-D | Color camera, RS sensor, supports DC Auto Iris lens control |
| 4KSDIMINIRS-M | Color camera, RS sensor, MFT-mount |

Camera kits available with common accessories included, ie. 4KSDIMINIKIT or 4KSDIMINIKIT-M. Includes selected camera, CABVICBATT, ACPWRTAP, 485HRMT, 4KMINIH5FAN and CABUSB4852M.

| ACCESSORIES | |
|---------------|---|
| Part Number | Description |
| VICPWRLIO | AC Power Adapter (Universal) with LEMO for RS485 |
| CABVICBATT | Battery Power Cable with PowerTap connector and LEMO for RS485 |
| ACPWRTAP | AC Power Adapter (Universal) with PowerTap connector |
| 485HRMT | Handheld remote control w. RS485 interface, for camera control from on-screen display |
| CABUSB4852M | USB to RS485 adapter cable, 2m, for camera control from PC software |
| CABLEMO3M | RS485 extension cable (LEMO to LEMO), 3m |
| VICLENMOUNT-A | Lens Mount Adapter, C-mount to Active EF-mount |
| CAB4KMINIDCI | Adapter cable, connects 4KSDI-Mini to DC Auto Iris Lens |
| 4KMINIH5FAN | Heatsink and Fan Assembly, attaches to back side of camera |



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8KSDI



12G-SDI POV CAMERAS

APPLICATIONS

Sports and Event Broadcasting

Virtual Reality and Visual Effects

Specialty Video Production

Wide Area Surveillance



FEATURES INCLUDE:

- Super 35 Global Shutter CMOS Sensor
- 12G / 6G-SDI Low-Latency Output
- 8K/UHDTV2 Output or Scaled 4K/UHD Output
- Interchangeable F-mount or Active EF-mount
- 10-bit 4:2:2 or RAW Output
- Compact One-Piece Rugged Design
- Synchronize Multiple Cameras via Tri-Level Sync
- Easy to Configure via On Screen Menu



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SPECIFICATIONS

| | |
|-------------------------------|--|
| Camera Model | 8KSDI |
| Sensor | ON Semiconductor XGS45000 |
| Output Modes | 8K, UHDTV2, 4K, UHD, up to 60 fps |
| Optical Format | Super 35 (8K/4K: 29.6mm diagonal; UHDTV2/UHD: 28.2mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Color (Bayer) or Monochrome |
| Dynamic Range | 67.5 dB |
| Output Interface | Quad-Link 12G/6G-SDI, Single-Link 12G/6G-SDI (HD-BNC connectors) |
| Output Format | 10-bit 4:2:2 (Y'Cb'Cr') or RAW (Bayer) |
| Exposure Control | Automatic (adjusts exposure, gain and/or iris if available) or manual exposure |
| Image Enhancement | Gamma (1D LUTs), master pedestal control, denoise filter, detail enhancement filter |
| Color Control | Auto white balance or calibrated presets, color correction matrix, RGB offsets, saturation control |
| Synchronization | Tri-level sync input |
| Camera Configuration | RS-485; use handheld remote for OSD, USB adapter for PC software or direct ASCII protocol |
| Mechanical/Electrical | |
| Dimensions | 62.0 mm x 62.0 mm x 154.7 mm (WxHxD, with F-mount) |
| Lens Mount | F-mount or Active Canon EF-mount |
| Camera Mounting Points | Top/Bottom: 1/4"-20; All sides: 2x M4 x 0.7 |
| Weight | 715 g (with F-mount, no lens) |
| Power Requirements | Approx. 14W @ 12V DC |
| Operating Temperature | -10°C to 50°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

OUTPUT MODES

Quad-Link 12G-SDI:

UHDTV2 10-bit 4:2:2/RAW: 50, 59.94, 60
8K 10-bit 4:2:2/RAW: 50, 59.94, 60

Dual-Link 12G-SDI or Quad-Link 6G-SDI:

UHDTV2 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30
8K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30

Single-Link 12G-SDI

UHD 10-bit 4:2:2/RAW: 50, 59.94, 60
4K 10-bit 4:2:2/RAW: 50, 59.94, 60

Single-Link 6G-SDI:

UHD 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30
4K 10-bit 4:2:2/RAW: 23.98, 24, 25, 29.97, 30

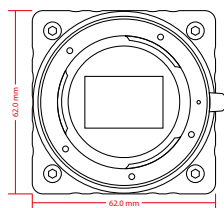
ORDERING

| Part Number | Description |
|-------------|---|
| 8KSDI | Color camera w. OLPF/IR-Cut filter, F-mount |
| 8KSDI-A | Color camera w. OLPF/IR-Cut filter, Active EF-mount |
| 8KMSDI | Monochrome camera, F-mount |
| VICPWRLIO | AC Power Adapter (Universal) with LEMO for RS485 |
| 485HRMT | Handheld remote control w. RS485 interface, for camera control from on-screen display |
| CABUSB4852M | USB to RS485 adapter cable, 2m, for camera control from PC software |
| CABLEMO3M | RS485 extension cable (LEMO to LEMO), 3m |

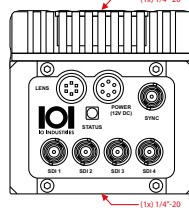
Camera and accessory kits available, ie. 8KSDIKIT-F or 8KSDIKIT-A. Includes camera with selected mount option, VICPWRLIO, 485HRMT and CABUSB4852M.

MECHANICAL DIAGRAMS

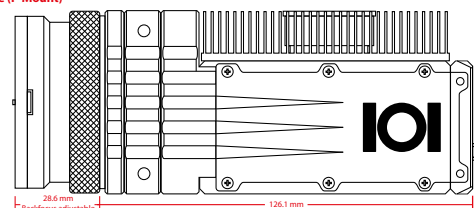
Front (F-Mount)



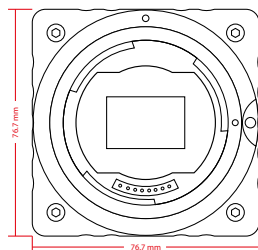
Rear (F-Mount)



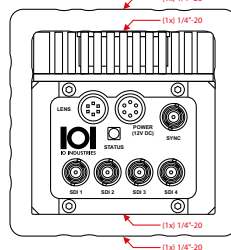
Side (F-Mount)



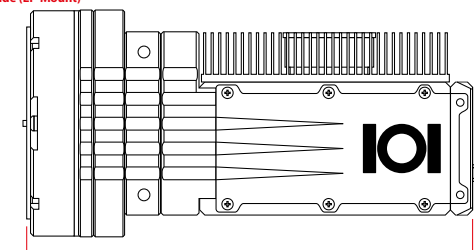
Front (EF-Mount)



Rear (EF-Mount)



Side (EF-Mount)



Note: Shimming washers may be factory installed to ensure accurate back focus. These could add up to 8.6mm to overall length.

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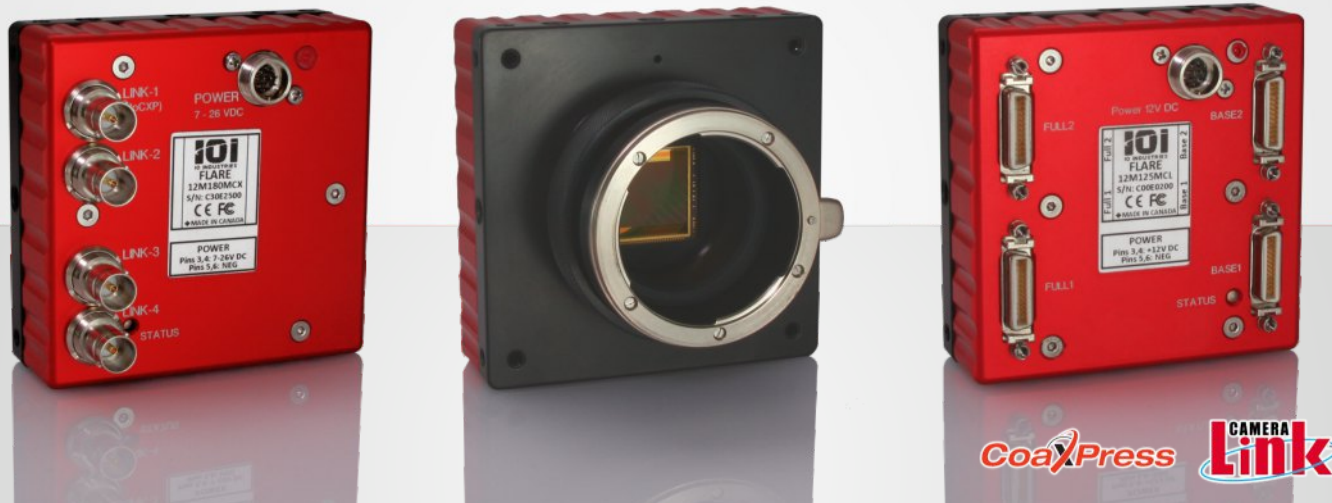


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Flare™

12MP CAMERAS



Video cameras with CMOSIS CMV12000 Sensors

APPLICATIONS

Automated Inspection

High Speed Motion Analysis

Research Imaging

Specialty Video Production



FEATURES INCLUDE:

- Monochrome, Colour and Near-IR Models
- Global Shutter CMOS with CDS
- CoaXPress or Camera Link Output
- Multiple Lens Mount Options
- Selectable 8-bit or 10-bit Data Formats
- High Sensitivity with Low Noise
- Advanced Auto Exposure Control
- Auto White Balance



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SPECIFICATIONS

| | |
|---------------------------------------|--|
| Camera Model | Flare 12MP |
| Sensor Size (H x V) | 4096 x 3072 |
| Frame rate (full resolution) | CX: 187 fps (8-bit), 149 fps (10-bit) CL: 124 fps (8-bit), 100 fps (10-bit) |
| Optical Format | Super 35mm / APS-C (28.1mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Monochrome, color (Bayer) or NIR-enhanced monochrome |
| Pixel Size | 5.5 x 5.5µm |
| Dynamic Range / Sensitivity | 60 dB, 4.64 V/lux.s |
| Output Configurations | CX: 1/2/4 links at 3.125Gbps (CXP-3), 5.0Gbps (CXP-5) or 6.25Gbps (CXP-6) CL: Base, Medium, Full, Full 80-bit, Dual Full 80-bit (80MHz Pixel Clock) |
| Pixel Bit Depth | 8-bit or 10-bit |
| Exposure Control | Trigger width, timed, or auto-exposure control |
| Image Correction | Black level, row and column-based FPN/PRNU correction, bad pixel replacement |
| Color Processing | Auto white balance (tracking or manual), programmable LUTs |
| Camera Configuration | GenlCam (CX), ASCII commands (CL), or Flare Control software |
| Flat Field Correction | Available for CX camera models |
| Mechanical/Electrical | |
| Dimensions | 91.7 mm x 91.7mm x 74.5 mm (with F-mount) |
| Lens Mount | F-mount, Active EF-mount, C-mount or T-mount (M42 x 0.75) |
| Weight | 600g (with F-mount) |
| Power Requirements | CX: 9.5W, 7-26V DC via Hirose 12-pin or 24V via PoCXP CL: 7.5W, 12V DC via Hirose 12-pin |
| Additional I/O (Hirose 12-pin) | TTL-level trigger input/output, EF-mount lens control interface |
| Operating Temperature | -30°C to 45°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

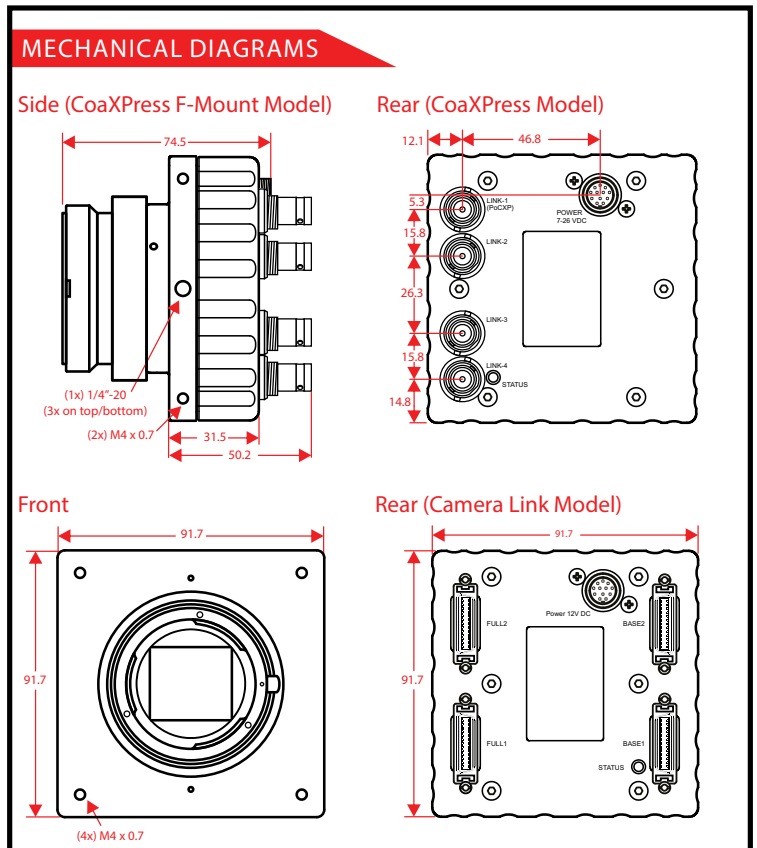
ORDERING

Example: 12M180MCX-F

| | |
|---------------------------------|------------------|
| Camera | Lens Type |
| 12M180 (CX) | F - F-mount |
| 12M125 (CL) | C - C-mount |
| | M - M42 x 0.75 |
| Sensor Type | Interface |
| M - Monochrome | CX - CoaXPress |
| C - Color (with IR filter) | CL - Camera Link |
| N - Near-IR Enhanced Monochrome | |

FRAME RATE CHART

| Frame Rates by Resolution and Bit Depth | 12M180xCX (4x CXP-6) | | 12M125xCL (2x Full 80-bit) | |
|---|----------------------|--------|----------------------------|--------|
| | 8-bit | 10-bit | 8-bit | 10-bit |
| 4096 x 3072 | 187 | 149 | 124 | 100 |
| 4096 x 2160 (4K) | 266 | 212 | 175 | 141 |
| 3360 x 2496 | 231 | 184 | 152 | 122 |
| 2048 x 2048 | 500 | 447 | 370 | 296 |
| 1920 x 1080 | 935 | 838 | 692 | 555 |
| 1000 x 1000 | 1008 | 903 | 924 | 829 |
| 1280 x 720 | 1384 | 1242 | 1268 | 1139 |
| 640 x 480 | 2032 | 1827 | 1863 | 1677 |



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Call: +1 951-296-6406

Flare™

48MP CAMERAS



CoaxPress

Video cameras with CMOSIS CMV50000 Sensors

APPLICATIONS

Automated Inspection

Aerial Imaging and Mapping

Wide Area Surveillance

Specialty Video Production



FEATURES INCLUDE:

- Monochrome and Colour Models
- Global Shutter CMOS with CDS
- CoaxPress Output
- Selectable 8/10/12-bit Data Formats
- Multiple Lens Mount Options
- Compact Size, Low-Power Fanless Design
- Multi-ROI with up to 10 Separate Windows
- Auto Exposure and Auto White Balance

IOI
IO INDUSTRIES

OFFICIAL DISTRIBUTOR FOR THE UNITED STATES



Specialised Imaging Inc.
40935 County Center Dr. Suite D
Temecula, CA 92591, USA

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SPECIFICATIONS

| | |
|---------------------------------------|--|
| Camera Model | Flare 48MP |
| Sensor Size (H x V) | 7920 x 6004 (47.5MP) |
| Frame rate (full resolution) | 30.9 fps |
| Optical Format | 35mm Full Frame (45.7mm diagonal) |
| Sensor Type | CMOS w. global electronic shutter |
| Sensor Options | Monochrome or color (Bayer) |
| Pixel Size | 4.6 x 4.6 μ m |
| Dynamic Range / Sensitivity | 64 dB, 4 V/lux.s |
| Output Configurations | 1/2/4 links at 2.50Gbps (CXP-2), 3.125Gbps (CXP-3), 5.0Gbps (CXP-5) or 6.25Gbps (CXP-6) |
| Multiple ROI | Up to 10 separate windows |
| Pixel Bit Depth | 8/10/12-bit |
| Exposure Control | Trigger width, timed, or auto-exposure control |
| Image Correction | Black level, row and column-based FPN/PRNU, bad pixel replacement, flat field correction |
| Color Processing | Auto white balance (tracking or manual), programmable LUTs |
| Camera Configuration | GenICam or Flare Control software |
| Mechanical/Electrical | |
| Dimensions | 79.7 mm x 79.7 mm x 78.0 mm (WxHxD, with F-mount) |
| Lens Mount | F-mount, M58 x 0.75, Active Canon EF, others upon request |
| Weight | 610g (with F-mount, no lens) |
| Power Requirements | 7.9W, 7-26V DC via Hirose 12-pin or 24V via PoCXP |
| Additional I/O (Hirose 12-pin) | TTL-level trigger input/output |
| Operating Temperature | -30°C to 45°C, 20-85% humidity (non-condensing) |
| Storage Temperature | -40°C to 85°C, 10-90% humidity (non-condensing) |

ORDERING

Example: 48M30MCX-F

| | |
|---|---|
| Camera 48M30 | Lens Type F - F-mount M - M58 x 0.75 A - Active EF-mount |
| Sensor Type M - Monochrome C - Color (with IR filter) | Interface CX - CoaXPress |

MECHANICAL DIAGRAMS

Front: Dimensions include 79.7 mm width and height, and M58 x 0.75 lens mount.

Rear: Dimensions include 9.6 mm top width, 46.8 mm bottom width, and vertical spacing of 5.3, 15.8, 19.3, 15.8, and 12.4 mm. Features include LINK-1 (PoCXP), POWER 7-26 VDC, and STATUS.

Side (M58 Mount): Dimensions include 48.2 mm top width, 18.6 mm bottom width, and 54.0 mm height.

Side (F-Mount): Dimensions include 78.0 mm height. Features include Sides: (2x) M4 x 0.7 and Top/Bottom: (2x) M4 x 0.7 + (1x) 1/4"-20.

FRAME RATE CHART

| Full-Resolution Frame Rate by Connection and Bit Depth | 48M30xCX | | |
|--|----------|--------|--------|
| | 8-bit | 10-bit | 12-bit |
| 4x CXP-6 | 30.9 | 30.9 | 30.9 |
| 4x CXP-5 | 30.9 | 29.2 | 24.3 |
| 4x CXP-3 | 23.5 | 18.9 | 15.6 |
| 4x CXP-2 | 18.8 | 15.2 | 12.4 |
| 2x CXP-6 | 23.5 | 18.9 | 15.6 |
| 2x CXP-5 | 18.2 | 14.6 | 12.2 |
| 2x CXP-3 | 11.7 | 9.5 | 7.8 |
| 2x CXP-2 | 9.4 | 7.6 | 6.2 |
| 1x CXP-6 | 11.7 | 9.5 | 7.8 |
| 1x CXP-5 | 9.1 | 7.3 | 6.1 |
| 1x CXP-3 | 5.9 | 4.7 | 3.9 |
| 1x CXP-2 | 4.7 | 3.8 | 3.1 |

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