TF-3GSDI-CAM

ORDERING INFORMATION:

P/N:

TF-3GSDI-CAM

APPLICATIONS:

- Rotorcraft
- General Aviation
- Law Enforcement
- Fire Authority
- EMS
- Automotive Applications
- Marine Applications
- Locomotive
- Pipe & Power Line Inspections
- Military & Defense
- Flight School
- SAR

Contact:

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FEATURES:

- Full High Definition 3G-SDI / HD-SDI Resolutions at 1920x1080
- Sony 1/3" CMOS Imaging Sensor at 2MP
- Electronic Shutter
- RS485 Control
- Miniature Size of 29mm x 29mm x 29mm
- Multiple CS Mount Lens Options
- Auto Day/Night Setting
- Operating Temperature: -10° to +65° Celsius
- Weight: 149g
- Power Input: 12VDC, MAX 150Ma

Overview:

The TF-3GSDI-CAM is the smallest CMOS sensor, broadcast quality camera with C/CS mount lens options available on the market. The rugged/lightweight aluminum housing allows for multiple mounting options using the 1/4x20 mounting thread on the bottom of the camera. The TF-3GSDI-CAM has a single 1/2.9" Sony Exmor CMOS sensor which is capable of outputting in full HD at 1920x1080p60 with a 2.38 MP resolution. Helical-Centroid Focusing

Image Processing Features:

The TF-3GSDI-CAM features a wide variety of image processing attributes which come standard with the camera. Some of the many features include different Exposure modes, Backlight adjustment, DNR settings, Lens Shading, Dynamic Zoom, Image Mirror and/or Flip, Privacy and Motion Sensing, Image Sharpness, Day & Night Settings, Image Defogging, Gamma Adjustments, etc.

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Technical Specifications

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Specifications

Image Sensor	1/3" SONY CMOS Sensor
Scanning System	Progressive, Interlace
Effective Pixels Number	1,920(H) x 1,080(V), 2.07M Pixels (Full-HD)
Total number of pixels	1,952(H) x 1,116(V), 2.18M Pixels (Full-HD)
Lens Mount	C/CS Mount
S/N Ratio	More than 50dB (AGC Off)
Video Output Mode	HD-SDI : 1920x1080p(30fps), 1920x1080i(60fps), 1920x1280x720p(60fps) 3G-SDI : 1920x1080p(60fps)
Video Output Level	HD-SDI, 3G-HDI / 1.0 Vp-p (75Ω, Composite) NTSC/PAL(Selectable)
Min. Illumination	Color : 0.2Lux @ F1.2 / B/W : 0.01@F1.2
OSD	Built-in
Electronic Shutter Speed	Auto / Manual (1/30 ~ 1/50,000)
White Balance	ATW / AWC / Indoor / Outdoor / Manual
Back Light Compensation	Off / WDR / BLC / HSBLC
D-WDR/ACCE	Low / Middle / High / Off, 0~15 steps
AGC	0~15 steps
Adjust	SHARPNESS / MONITOR / OSD / LSC / VIDEO OUT(NTSC/PAL)
Language	ENG, JPN, CHN, KOR, GER, FRA, ITA, SPA, POL, RUS, POR, NED, TUB, HER, ARB(Directional Switches)
Day & Night	Auto / B.W / Color / EXT (Selectable)
2D/3D-NR	2DNR / 3DNR / SMART NR
Digital Zoom / PIP	On / Off(x2 ~ x64)
Privacy Masking	On / Off (8 Zone Selectable)
Motion Detection	On / Off (4 Zone Selectable)
Defect	LIVE DPC / STATIC DPC / BLACK DPC
Defog	Low / Middle / High / Off(Position/Size- User Setting)
Sens - up	Auto (Selectable limit ~ x30) / Off
D – EFFECT	Freeze / Mirror / D-Zoom / NEG.IMAGE
Protocol	Pelco-D / Pelco-P
Communication	RS-485[Baud Rate : 2400~38400]
Power	DC12V ~ 24V ±10%, 2.3W(1080p/30fps), 3.3W(1080p/60fps)
Operating / Storage Temperature	-5℃ ~ +50℃ (Humidity: 0%RH ~ 80%RH) -20℃ ~ +60℃ (Humidity: 0%RH ~ 90%RH)
Dimension	29mm X 29mm X 29mm (Connector, C/CS mount excluded.)

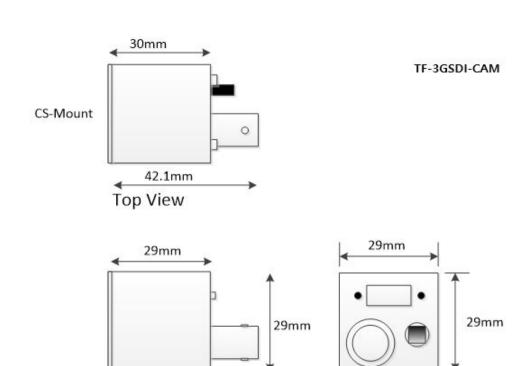# Technical Drawings

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TF-3GSDI-CAM

30mm

CS-Mount

42.1mm

Top View

29mm

29mm

29mm

Side View

29mm

29mm

29mm

Back View