TF-HCF-CAM

ORDERING INFORMATION:

P/N:

TF-HCF-CAM

APPLICATIONS:

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

FEATURES:

- Military Grade 7075-T6 Aluminum Housing – IP67 Rated
- Helical-Centroid Focusing
- Single Mil-Spec Output Connector for video/data & power
- Full High Definition 3G-SDI / HD-SDI Resolutions up to 1920x1080
- Panasonic 1/3” Imaging Sensor
- Dual Simultaneous Outputs of 3G-SDI/HD-SDI and Analog/CVBS
- Anti-Vibration mechanism (internal)
- Electronic Shutter
- RS485 Control
- Miniature Size of 80mm x 30mm x 30mm
- Multiple Lens Options (3.7mm Standard)
- Auto Day/Night Setting
- Operating Temperature: -40° to +65° Celsius
- Weight: 149g
- Power Input: 12VDC, MAX 150mA

The TF-HCF-CAM is the smallest Military Grade 3G-SDI/HD-SDI camera available on the market. Milled out of a solid piece of 7075-T6 aluminum, the TF-HCF-CAM is rugged enough to be installed and operated in any Military or commercial application. While measuring at only 80mm x 30mm x 30mm the TF-HCF-CAM can be installed in tight areas using the robust mounting bracket included with the camera. With dual simultaneous outputs, the TF-HCF-CAM can be used with multiple devices at the same time where the 3G-SDI/HD-SDI output can connect to a DVR and the analog output can be used to view the live feed on a Garmin G500 or similar monitor.

The TF-HCF-CAM features a Panasonic 1/3” Imaging Sensor which outputs a 2MP image in high definition. The TF-HCF-CAM comes in a variety of lens options which provide specific field of views ranging from extremely narrow to ultra-wide. The electronic shutter helps preserve the image quality when capturing fast moving objects with minimal image distortion, image blur and shutter noise. The auto day & night feature is helpful when capturing images in low light areas, where the TF-HCF-CAM will automatically switch to a monochrome image if there is not enough light reaching the imaging sensor.

The TF-HDCAM features a Panasonic 1/3” Imaging Sensor and interchangeable M12 style lenses which output a 2MP image in high definition. The electronic shutter helps preserve the image quality when capturing fast moving object with minimal image distortion, image blur and shutter noise. The auto day & night feature can be helpful when capturing images in low light areas, where the TF-HDCAM will automatically switch to a monochrome image if there is not enough light entering the imaging sensor.

Contact:
www.TechFury.com
Sales@techfury.com

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Technical Specifications

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CAMERA IMAGING	
Image Sensor	Panasonic 1/3" CMOS Imaging Sensor
Scanning System	Progressive
Effective Pixels	1944(H) x 1092 (V) : 2.12 Mega Pixels
Total Pixels	1956(H) x 1266 (V) : 2.48 Mega Pixels
Min. Illumination	0.3LUX AT f2.5, 30IRE
Lens Type	Board, M12 (Manual) (Changeable)
Electronic Shutter Speed	60Hz : 1/30 ~ 1/30,000 sec., 50Hz: 1/25 ~ 1/30,000 secs.
VIDEO OUTPUT	
Video Output 1	3G-SDI / HD-SDI / EX-SDI
Video Output 2	CVBS (NTSC / PAL)
Video Output Resolutions	**3G-SDI / HD-SDI / EX-SDI:** 1080p60/50/30/25, 1080i60/50 **CVBS (NTSC/PAL):** 720p60/50/30/25
Video Standards	NTSC/PAL (User Select)
DATA CONTROL	
Serial Data	RS485 Serial Data (Please Call)
OSD OPTIONS	
On Screen Display (OSD)	Built-in Joystick on programming cable*
Exposure	Brightness = 0 - 20 units selectable AGC = 0 - 20 units selectable Shutter Mode = Auto / Flickerless / Manual Sens Up = x2, x4, x8, x16, x32
White Balance	AWB / AWT / Push Lock / Manual
Backlight Compensation	WDR / BLC / HSC / Off
DNR	High / Middle / Low / OFF
Day & Night	Auto / Color / B&W / CDS / External
Sharpness	0 - 20 units selectable
Color Level	0 - 20 units selectable
Mirror and Flip Picture	ON / OFF

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Defog	ON / OFF
Language	English, Chinese, Japanese, Korean
Special	Privacy / Motion / DIS
System	SDI Out / SDI Format / FREQ. / CVBS Out / Language / Cam Title
POWER	
Power Input	DC12V ± 10%, MAX 150mA
PHYSICAL & ENVIRONMENT	
Operating Temperature	-40 C to +65 C (-40 F to +149F)
Storage Temperature	-40 C to +70 C (-40 F to +158 F)
Humidity	Less than 75% Realtive
Housing	Military Grade 7075-T6 Aluminum Housing - IP67 rated
INPUT / OUTPUT Connector	1 x MIL-SPEC I/O Connector - Rear Panel Glenair P/N 801-010-02NF8-13PA (MATING = Glenair P/N 807-008-26NF8-13SA)
Programming Cable	**CAMERA END:** 1 x Glenair P/N 807-008-26NF8-13SA **PROGRAMMING END:** 1 x BNC Female - 3G-SDI / HD-SDI / EX-SDI Output 1 x BNC Female - CVBS 1 x OSD Controller - Built-in on cable 1 x Power Input & RS485 Control Connector - (Glenair P/N 801-010-07NF6-4PA, Mating Power Connector = Glenair P/N: 801-008-26NF6-4SA)
Dimension	80mm x 30mm x 30mm (3.14in x 1.18in x 1.18in)
Weight	149g / 5.26oz / 0.33lbs
Mounting (Included)	1 x 51mm x 21mm x 6.35mm Mounting Plate - 2 x 1/4x20 Threaded Mounting Points
IP Rating	IP67
LENS OPTIONS	
Lens Options (Please call before ordering)	2.8mm Lens = 174 degree Horizontal FOV 3.7mm Lens = 122 degree Horizontal FOV (Standard) 6.0mm Lens = 77 degree Horizontal FOV 12.0mm Lens = 34 degree Horizontal FOV 16.0mm Lens = 26 degree Horizontal FOV

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Technical Drawings

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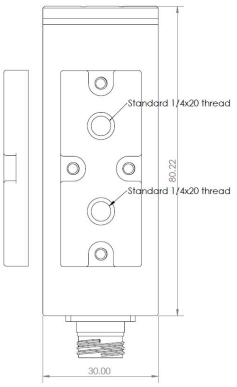

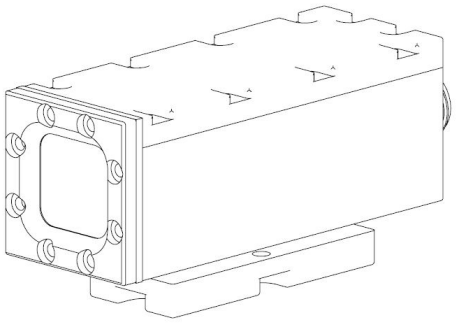

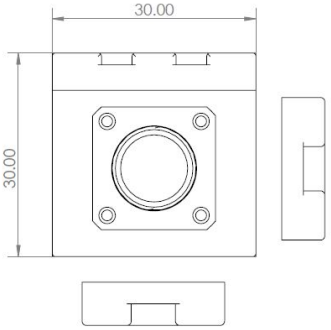

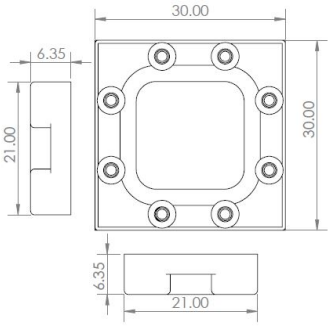

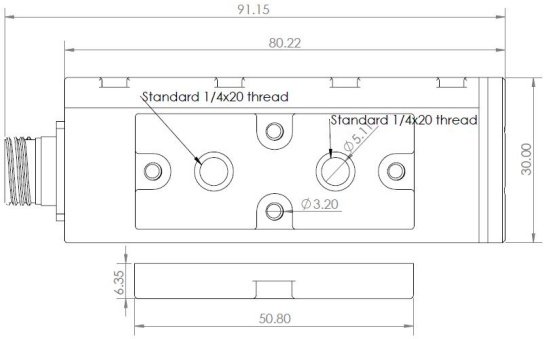

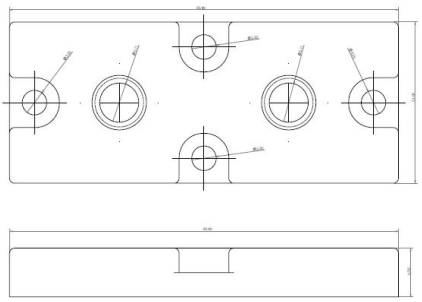

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