

ORDERING INFORMATION:

P/N:

TF-HDCAM

APPLICATIONS:

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

Contact:

www.TechFury.com

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TF-HDCAM



FEATURES:

- Full High Definition 3G-SDI / HD-SDI Resolutions at 1920x1080
- IP67 Rated – Rugged Waterproof Housing
- Panasonic 1/3" Imaging Sensor
- Dual Simultaneous Outputs of 3G-SDI/HD-SDI and Analog
- Electronic Shutter
- RS485 Control
- Miniature Size of 56mm x 19mm
- M12-Mount Lens Options (3.6mm Standard)
- Auto Day/Night Setting
- Operating Temperature: -15° to +65° Celsius
- Weight: 45g
- Power Input: 12VDC, MAX 150mA

The TF-HDCAM is the smallest barrel (lipstick) style camera available on the market. Measuring in at 56mm x 19mm, the TF-HDCAM has a robust waterproof aluminum housing with IP67 rating which can be mounted in harsh interior or exterior environments. With dual simultaneous outputs, the TF-HDCAM 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-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.

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, Pinhole (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 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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Lens Shading	ON / OFF
Dynamic Zoom	x1.0 - x16.0
ACE	High / Middle / Low / OFF
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	-20 C to +60 C (-4 F to +140F)
Storage Temperature	-30 C to +70 C (-22 F to +158 F)
Humidity	Less than 75% Realtive
Housing	Aluminum IP67 Housing
Cable & Connectors	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 RS-485 Control Phoenix Connector 1 x 5.5x2.1mm Barrell Conector - Power Input
Dimension	56mm x 19mm (2.2in x 0.75in)
Weight	68g / 2.4oz / 0.15lbs
Mounting	1/4 x 20 Thread (Call for more options)
IP Rating	IP67
LENS OPTIONS	
Lens Options (Please call before ordering)	2.8mm Lens = 145 degree Horizontal FOV 3.7mm Lens = 90 degree Horizontal FOV (Standard) 6.0mm Lens = 50 degree Horizontal FOV 12.0mm Lens = 30 degree Horizontal FOV 16.0mm Lens = 20 degree Horizontal FOV

Technical Drawings

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