

## ORDERING INFORMATION:

P/N:

TF-SDCAM

## 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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# TF-SDCAM



## FEATURES:

- 1/3" Sony 960H Double Scan Super HAD CCDII
- Horizontal resolution of over 800 TV-Line
- Auto Scene Recognition and Scene Select function
- Super Wide Dynamic Range(WDR+ATR-EX2)
- Coaxial communication
- 2D & 3D noise reduction
- IR-Optimizer
- Motion detection (Frame rate link)
- Polygon privacy mask
- HLC (High Light Compensation)
- E-Zoom (256x)
- Defog (Auto)
- DIS (Digital Image Stabilizer)
- DSS (Digital Slow Shutter)
- IP67 Weatherproof
- 12VDC

## Overview:

The TF-SDCAM is the best solution for capturing standard definition images from a small lipstick (barrel) style camera on the market. With internal silicone potting to prevent vibrations from reaching the camera sensor, the TF-SDCAM is an ideal solution for harsh environment applications typically found in aviation, motor sports, marine and military sectors.

## Image Quality:

The TF-SDCAM offers the best analog imaging sensor available on the market, with a resolution of greater than 800TVL using a coaxial connection. The 1/3" Sony 960H Double Scan Super HAD CCDII imaging sensor is capable of outputting high quality images in standard definition with over 500k effective pixels. Both NTSC and PAL versions are available.

## Digital Image Stabilization:

The TF-SDCAM offers Digital Image Stabilization (DIS) which significantly reduces external vibrations from reaching the camera sensor allowing for a sharper image. When this feature is turned on, the output image will reduce image distortion, image blur and shutter noise. This feature allows external mounting in heavy vibration areas such as tail boom, wing strut, helicopter landing rails, etc.

# Technical Specifications

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<b>CAMERA IMAGING</b>	
Image Sensor	1/3" Sony 960H Double Scan Super HAD CCDII
Effective Pixels	NTSC : 976(H) x 494(V) PAL : 976(H) x 582(V)
Min. Illumination	0.3LUX AT f2.5, 30IRE
Lens Type	Board, M12 (Manual) (Changeable)
Scanning system	NTSC : 525 Lines PAL : 625 Lines 2:1 Interlaced
Gamma Correction	Standard $\gamma = 0.45$
S/N ratio	More than 50dB (AGC OFF)
<b>VIDEO OUTPUT</b>	
Video Output	1 x Composite (CVBS / Analog) 1.0Vp-p, 75 Ohms
<b>OSD OPTIONS</b>	
On Screen Display (OSD)	In-Line via Remote Control
Scene Select function	FULL AUTO / INDOOR / OUTDOOR / BACKLIGHT / ITS / CUSTOM(OFF)
Exposure Settings	Brightness / Contrast / Sharpness / Hue / Color gain
Electronic ZOOM	Electronic zoom images to ON or OFF
<b>Image Stabilization (DIS)</b>	<b>Digital Image Stabilizer function ON/OFF selection</b>
PRIVACY MASK	15 EA Privacy mask setting
MOTION Detection	4 frames Monitoring frame function / 96EA Dead band setting
FLIP	Top bottom / Left right / Rotation by 180 degrees
LCD / CRT	Monitor type selection LCD / CRT
Communication	Coaxial Communication (Pelco-C only)
Camera ID	Character string of up to 26 characters on 2 lines
Language	English / Spanish / Russian / Portuguese / German / French / Japanese
White Pixel Masking	White Pixel Detection (AUTO / MANUAL / DATA CLEAR)
Shutter/AGC	Auto : 1/50[s] 1/60[s] ~ 1/100,000[s] Manual / Fix : 6 ~ 44.8[dB] / 2 ~ 256 FLD

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White balance	1,800K ~ 10500K AUTO ATW / PUSH / USER1 / USER2 / Manual / PUSH LOCK
HLC / BLC	HLC / BLC / OFF
WDR / ATR-EX	WDR / ATR-EX / OFF
DNR	Adjusted to 0-6 steps
DAY / NIGHT	AUTO / DAY / NIGHT
IR OPTIMIZER	ON(AUTO, CENTER) / OFF
LENS Shading	ON / OFF
DEFOG	ON / OFF
Flickerless	AUTO / ON / OFF
ANTI CR	AUTO / ON / OFF
<b>POWER</b>	
Power Input	DC12V ± 10%, MAX 90mA
<b>PHYSICAL &amp; ENVIRONMENT</b>	
Operating Temperature	-20 C to +60 C (-4 F to +140F)
Storage Temperature	-30 C to +70 C (-22 F to +158 F)
Humidity	0% to 90% Realtime
Housing	Aluminum IP67 Housing
Cable & Connectors	1 x BNC Female - CVBS 1 x 5.5x2.1mm Barrell Connector - Power Input
Dimension	70mm x 21mm (2.75in x 0.83in)
Weight	68g / 2.4oz / 0.15lbs
Mounting	1/4 x 20 Thread (Call for more options)
IP Rating	IP67
<b>LENS OPTIONS</b>	
Lens Options (Please call before ordering)	2.8mm Lens = 120 degree Horizontal FOV 3.7mm Lens = 92 degree Horizontal FOV (Standard) 4.3mm Lens = 78 degree Horizontal FOV 6.0mm Lens = 54 degree Horizontal FOV 8.0mm Lens = 39 degree Horizontal FOV 12.0mm Lens = 30 degree Horizontal FOV 16.0mm Lens = 20 degree Horizontal FOV

# Technical Drawings

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