

UAV-Cam™ V2M



Teledyne Imaging Sensors Company's new UAV-Cam™ V2M is the first high definition format CMOS camera to address the developing needs of the UAV market. TIS design strategy results in a camera which is compact, low noise, low power, high resolution and provides on-board custom configurable digital processing. The on-board processing capability serves as a platform for the implementation of user specified custom features such as windowing, compression, serialization and encoding. The camera has programmable modes which are selectable through both RS-232 and Camera Link™ interface.



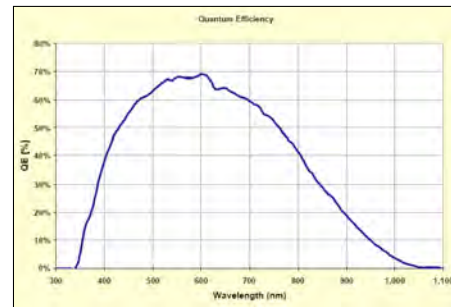
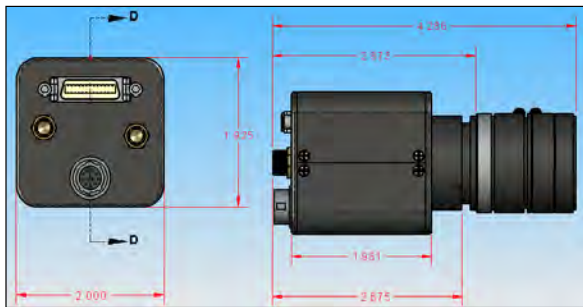
**Single frame of digital video taken with UAV-Cam V2M
using 30 degree FOV lens**

UAV-Cam™ V2M



Mechanical Specifications

Size w/o Lens	2.68"L x 2.00"W x 1.93"H
Weight	132g w/o lens (lighter version available in ABS plastic)
Sensor	AltaSens ProCamHD™ 3560
Pixel Pitch	5 μm
Array Format	1936 (H) x 1086 (V) active pixels (16:9 aspect ratio)
Optical Format	2/3 inch – 9.68 mm x 5.43 mm (11.1 mm diagonal)
Lens Mount	C-Mount / CS-Mount – 1 inch diameter
Approximate Lens HFOV	30° +/- 2° (other FOV's lens are available)



Electrical Specifications

Spectral Response (sensor only)	350 nm to 1000 nm
Read Noise (RMS)	< 20 e- (high gain) standard (15 e- professional grade option)
Full Well	> 45,000 electrons (low gain)
Exposure Times Resolution: 1 line period (~27μs)	30 μsec to 33 msec for 30 Hz Frame Rate
Exposure Mode	Rolling electronic shutter
Digital Output Format	12-bit Camera Link
Analog Output Format	Interlaced (RS-170)
Frame Rate	30 Hz progressive scan (60 Hz option available)
Automatic Gain Control	On / Off / Manual Control
Correction	LUT On / Off
Input Power	5V, 0.75A
Camera Control	RS-232 / Camera Link™

Note: Application specific firmware can be loaded for a customized solution. Contact TIS for details.

Bill Weissbard • (805-) 373-4880 • wweissbard@teledyne.com