

1/2 actual size

CUSTOMIZABLE MULTI-SENSOR GIMBAL

Various EO, IR and Laser Sensors allow a fully customized solution for your application

DUST AND WATERTIGHT

IP66 rated, suitable for use in the air, on land and at sea

- **Simple hook up – plug and play**
- Export Restriction Free Options
- Proven Reliability
- Low SWaP-C
- On Board Video Stabilization
- MISB 0601 Standards
- Raw Outputs Available
- No Calibration Required
- Product Support Available



OBJECT TRACKING

You designate a region of interest/object on the video image and the gimbal keep the target centre of frame, throughout platform and object movements.



HD STREAMING

Stream and Record Video and Stills in 1280 x 720 resolution straight to your Ground Control Station or other Networked Device



REAL-TIME VIDEO STABILIZATION

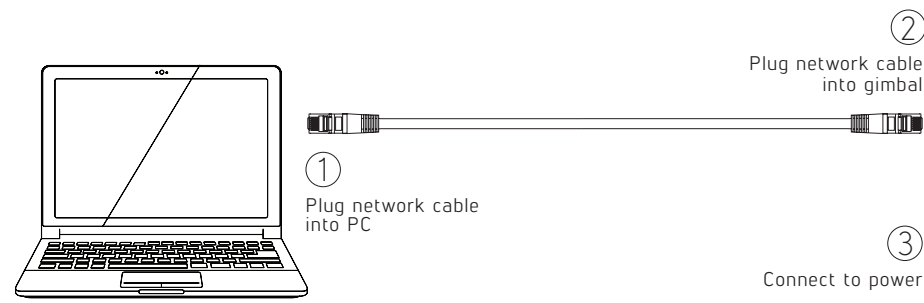
Electronically removes vibrations caused by the platform for a steady image. Ideal for a wide range of UAV/Full Sized or manned applications in any conditions.



GEO-LOCK

Ensures that the gimbal automatically steers towards your chosen geographic coordinates as the platform manoeuvres without operator input.





SIMPLY PLUG AND PLAY

You can easily hook up the CM160 by using a power and network cable, and use it straight away

MULTIPLE SENSOR OPTIONS

Provides you with options to choose from a range of EO and IR sensors to suit your mission

KLK METADATA OVERLAY

Gimbal State - Corners of Frame - Centre of Frame - World Co-Ordinates - UTC Time - Slant Range to Target

INTERNAL VIBRATION DAMPENING

For added image stabilisation and platform flexibility on multiple platforms.

NTSC AND PAL

More viewing options providing you with the flexibility to switch modulations for world wide compatibility

FIELD UPGRADABLE

Allows you to add object tracking, KLV metadata and GEO-Lock options to suit your needs

PROVEN RELIABILITY

Worldwide sales and 6 years of testing have shown consistent reliability and performance

DEDICATED SUPPORT STAFF

One on one responses to all your sales and technical queries



Maritime Security



Aerostat Border Security



Full Size Aircraft Fire Spotting

CM160

SYSTEM SPECIFICATIONS

Gimbal Capabilities

POSITION ACCURACY	0.011° (190 µrad)
ELEVATION	±120°
AZIMUTH	360° continuous
SLEW RATE	65° / sec (1.13 rad/s)
POWER	Startup @ 20W Avg rating @ 12W
VOLTAGE	9 - 36V
ELECTRONICS	HighSpeed32bit
COMMUNICATION LINK	Ethernet / RS232

Physical Dimensions

WEIGHT	1450g / 3.2lbs
DIMENSIONS	160mm x 237mm x 163mm
TEMPERATURE	-10°C - +50°C

Video Output

ANALOGUE OUTPUT	Composite
DIGITAL OUTPUT	.h264 (1280 x 720)
SNAPSHOTS	1280 x 720 (Stored On Board)

PAYLOAD SPECIFICATIONS

Sensor #1a	HD Daylight Camera with Zoom Lens
MODEL	DISC-120R
SENSOR RESOLUTION	1280 x 720
SD FIELD OF VIEW	44° wide - 1.5° tele
HD FIELD OF VIEW	62.9° wide - 2.2° tele
ZOOM RANGE	30x Optical 4.4 - 132mm
F-VALUE	F1.4 - F4.8

Sensor #1b	HD Daylight Camera with Zoom Lens
MODEL	FCB-H Series
EFFECTIVE PICTURE ELEMENT	Up to 3.27 Megapixel
FIELD OF VIEW	55° wide - 2.1° tele
ZOOM RANGE	30x Optical 13.5-129mm
F-VALUE	F1.35 - F3.7

Sensor #1c	HD Daylight Camera with Zoom Lens
MODEL	FCB-EV7500
EFFECTIVE PICTURE ELEMENTS	Up to 2.38 Megapixel
FIELD OF VIEW	45° wide - 1.6° tele
ZOOM RANGE	30x Optical 4.3-129mm
F-VALUE	F1.6 - F4.7

Sensor #2a	640 Uncooled IR Sensor Digital Zoom
TYPE	Tau 2
LENS SIZE	Up to 50mm
RESOLUTION	640x480
PIXEL SIZE	17µm
FRAME RATE	9 - 25 fps

Sensor #2b	GigE Daylight Sensor, Up to 16MP
TYPE	Prosilica GC/GE
ZOOM RANGE	35-50mm fixed zoom
RESOLUTION	0.5-16 Megapixels

Sensor #2c	USB Sensor
Sensor #3	Eyesafe Laser Range Finder
WAVELENGTH	905 nm
RANGE	2900m
ACCURACY	4cm