



CM202S

Multi-Spectral Ground Imaging System

MWIR

Man Portable

Durable

The CM202S is an expeditionary, purpose-built surveillance and intelligence system, suitable for operation in all climates and environments. The rugged, gyro-stabilized system can be integrated into ground vehicles for on-the-move missions or on fixed-site installations for long range target detection and identification. The system includes a HD daylight sensor, crisp MWIR sensor, and a laser range finder for powerful intelligence, surveillance, target acquisition and reconnaissance.



GROUND SURVEILLANCE

Technical Specifications

GIMBAL CAPABILITIES

Mechanical Axes	2 (Pan and Tilt)
Position Accuracy	0.0046° (80 µrad)
Elevation	+130° / -30°
Azimuth	360° Continuous
Slew Rate	360° / s max, Acceleration 1500° / s max
Power	Idle 55W / Peak 100W
Voltage	11 - 36V
Modes	Rate/ Scene/ Track/ GEO-Lock
Communication Link	Ethernet / RS232 Communication Libraries Available

HARDWARE

Weight	12.1lb / 5500g
Diameter	203mm / 8in
Height	320mm / 12.6
Temperature	-10°C to +55°C 14°F to +131°F
Environment	IP66
MTBF	> 1000 hours
Shock Limit	20 G
Peripherals	3x GPIO

VIDEO SPECIFICATIONS

Digital Output	h.264 MPEG2 TS
Snapshots	1280x720 (EO) 640x512 (IR) Stored On Board
Standards	MISB (0102.10, 0601.7, 0603.2, 0604.3 & 0903.3) & STANAG (4609) Compliant

INTERNAL INS / GNSS

Horizontal Position Accuracy	2.0m
Vertical Position Accuracy	3.0m
Heading Accuracy	0.8°
Accelerometer Range	Up to 16G
Supported	GPS L1 / GLONASS L1 GALILEO E1 / BeiDou B1
Timing Accuracy	25ns

INTERNAL VIDEO PROCESSOR FEATURES

Recording on Board	✓
Encoding	✓
Object Tracking	✓
E-Stabilization	✓
Scene Steering	✓

Configurations

DAYLIGHT (EO)

Type	CCD Global Shutter
Resolution	1280 x 720
FoV	9° to 1.1°
Zoom	6
Frame Rate	25Hz

THERMAL (IR)

Type	MWIR
Resolution	640x512
FoV	28.7° to 1.46°
Zoom	20x Optical
Frame Rate	Up to 30Hz

Contact Us



USA and EMEA
Ascent Vision Technologies
+1 406-388-2092
info@ascentvision.com
www.ascentvision.com
Bozeman, Montana, US



APAC
AVT Australia
+61 265 811 994
sales@ascentvision.com.au
www.ascentvision.com
Melbourne, VIC, Australia