



ROADMETRIC



Mobile Video Law Enforcement with Surveillance Options



Processing unit



Parameter	Specification
Part Number	RM-PU
Processor	Intel® Core™ i7-3610QE (2.3/3.3 GHz, 6 MB cache)
Communications	Wi-Fi 802.11a/b/g/n Bluetooth V4.0 Mobile network broadband modem 3G/4G/LTE
GPS	1Ghz GPS embedded receiver
Graphics	Integrated Intel® HD Graphics 4000 Controller
Memory	8GB DDR3 1333 MHz SDRAM
CFast	1x CFast socket
SATA HDD	Internal SATA 500GB SSD
DC Input	8~35V DC input
Ignition Control	Ignition power control with configurable on/off delay (V+/GND/IGN)
Dimension	240 mm (W) x 255 mm (D) x 70 mm (H)
Weight	3.8 Kg
Operating Temperature	-25°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes(w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
EMC	CE/FCC Class A, according to EN 55022 & EN 55024

Camera assemblies



Parameter	Specification
Part Number	RM -LCA
Resolution	1920x1200
Frame Rate	41 FPS
Megapixels	2.3 MP
Chroma	Color
Sensor Name	Sony IMX249
Sensor Type	1/1.2" CMOS
Readout Method	Global shutter
Lens Mount	C mount
Shutter Speed	0.019 ms to 3.9 seconds
Interface	GigE
Dimensions	Ø 70 X 14.6cm
Mass	236 grams
Compliance	CE, FCC, KCC, RoHS
Temperature (Operating)	0° to 45°C
Temperature (Storage)	-30° to 60°C
Humidity (Operating)	20 to 80% (no condensation)
Humidity (Storage)	20 to 95% (no condensation)
Focal Length	6-12mm
Aperture Ratio	F1.8
Control	Iris / Focus: Manual
Operation Range	Focus: 0.5 m to infinity
Angle of View	49° - 90° (H)



LCD touchscreen monitor



Parameter	Specification
Part Number	RM -TSA
Size	8 inches
Colors	256K
Resolution	1024x768
Brightness	1000 NITS
Aspect	4:3
Contrast	500:1
Inputs	VGA / Composit video / Audio
Power supply	9-36Vdc
Touch panel	USB/RS232
Dimension	210mm (W) x 280mm (D) x 170mm (H)
Weight	790 g
Operating Temperature	-20 to 60°C
Storage Temperature	-30°C to 80°C
Drop	10cm max. (1cm collision to display area)
Vibration	1G 2-500Hz
Shock	20G 11ms
Mounting	VESA 75
Compliance	IP65

In car Microphone



Parameter	Specification
Part Number	RM-MIC
Audio input	3db
Bandwith	20kHz
SNR	@8kHz: 79db
Audio output bandwidth	20Hz – 20kHz
CMRR	50db
Operation range	3 Meters
Phizical size	19 (W) x 2.15 (H) x 3.05 (D) mm
Mass	12 g
Humidity (Storage)	20 to 95% non condensation)

Wireless Microphone



Parameter	Specification
Part Number	RM-BTM
Bluetooth version	BT3.0
Bluetooth profiles	HSP / HFP / A2DP / AVRCP
Bluetooth RF spec	CLASS 2
Encryption	128 bit key encryption
Battery	500MAh rechargeable / replacable
RF ppower	6db
RF seneitivity	-90db
RF frequency	2.4 – 2.835 GHz
Audio input	3db
Bandwith	20kHz
SNR	@8kHz: 79db
Audio output bandwidth	20Hz – 20kHz
CMRR	50db
Average standby current	6mA
Operation range	30 Meters
Phizical size	19.05 (W) x 57.15 (H) x 19.05 (D) mm
Mass	39.6 g
Humidity (Storage)	20 to 95% non condensation)

Vehicle data transfer



Parameter	Specification
Part Number	RM-VDT
Protocols	ISO 15765-4 (CAN) ISO 14230-4 (Keyword Protocol 2000) ISO 9141-2 (Asian, European, Chrysler vehicles) J1850 VPW (GM vehicles) J1850 PWM (Ford vehicles)
Interface	USB 2.0
Operating Voltage	8-18V DC
Operating Temperature	-20° to 55° C
Operating Humidity	10 to 85% (non-condensing)
Dimensions	89 mm x 45 mm
Weight	113.4 g



Antena



Parameter	Specification
Part Number	RM-ANT
Frequencies	<p>Cellular/LTE = 824-896 MHz; 1850-1995 MHz; 698-798 MHz; 1710-1770 MHz; 2110-2170 MHz; 2570-2620 MHz</p> <p>WiFi - 2.4 & 5 GHz (802.11 a,b,g,n, ac)</p> <p>GPS - 1575.42 MHz</p> <p>VSWR: 1.5:1 or less at resonant point</p> <p>Gain: 3.0 dBi</p> <p>Radiation Pattern: OMNI Directional, Hemispherical (GPS)</p> <p>Polarization: Vertical</p>
Cable Length	4.5 m (Adhesive and Threaded Bolt Mount)
Environmental Specifications	<p>Temperature: -40°C to 85°C (-40°F to $+185^{\circ}\text{F}$) operating and storage</p> <p>Humidity: (non-condensing) - 5% to 95% operating and storage</p> <p>Military Spec: MIL-STD 810 conformance to thermal, mechanical shock, and humidity.</p>
GPS Antenna Specifications	<p>Center Frequency . . 1575.42 MHz</p> <p>Gain - 30 dB min.</p> <p>Polarization - R.H.C.P</p> <p>Noise Figure - 2.0 max.</p> <p>Arial Ratio - 3 dB max.</p> <p>Bandwidth - 2 MHz min.</p> <p>VSWR - 2.0 max.</p> <p>Output Impedance - 50 Ohms</p> <p>Voltage - 3-5 Volts</p> <p>Current - 15 mA (max)</p> <p>Rugged outdoor design – IP66</p>

Manual control button



Parameter	Specification
Part Number	RM-PB
Interface	USB 2.0
Operation	Multi function jog dial
Power	5Vdc via USB
Phizical size	Ø55 x 40mm

Monitor mount



Parameter	Specification
Part Number	RM-TSM
Material	Powder Coated Marine Grade Aluminum
Pole Length	Minimum: 18.75" Maximum: 25.75"
Screen Mount	VESA 75
Installation	Fast and simple installation, requires no drilling or modification to vehicle Attaches using an existing seat rail bolt or seat track





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Solutions