



Technical Specifications

RoadRunner Mobile Digital Video Recorder (MRH16, MRH12, MRH8)

VIDEO	
Signal Format	NTSC or PAL (auto-detect)
Video Inputs MRH16, MRH12 / MRH8	Composite BNC 16 Active / Composite BNC 8 Active
Video Outputs	Composite BNC 1
Display Modes	Single, Quad, 3x3, 4x4, Sequence, Digital Zoom (x2)
Recording Resolution	4CIF (NTSC: 704x480; PAL: 720x576)
Recording & Playback Rate MRH16, MRH12	4CIF (NTSC: 704x480; PAL: 720x576), 2CIF (NTSC: 704x240; PAL: 352x288), CIF (NTSC: 352x240; PAL: 352x288)
Recording & Playback Rate MRH8	Up to 480ips (PAL: 400ips)
Compression	Up to 240 ips (PAL: 200 ips)
Encryption	H.264 Main Profile
Recording Mode	Proprietary chained-frame watermarking w/ 128 bit encryption
Search Modes (Standard)	Time-Lapse, Text-In, Pre/Post-Event (up to 30/15 Minutes)
Search Modes (GPS Option)	Text-in, Event, Date/Time, Calendar, Motion
Image Control	Map Location, Vehicle Speed
	Brightness, Contrast, Saturation, Hue
INPUTS / OUTPUTS	
Alarm In / Out	8 (Relay In) / 2 (Relay Out)
Reset In / Event In	1 / 1
Audio In / Out	2 / 1
Serial Interface	RS232 (x2), RS485
External Interface MRH16 / MRH12	2 USB 2.0, 18 x 12V Power Supply / 2 USB 2.0, 10 x 12V Power Supply
User Interface	Mouse
Operating Status	"Heartbeat" Health Indicator
SYSTEM	
Operating System	Embedded Linux (Built-in Flash Memory)
Database File System	Proprietary Optimized Multimedia Database
Disk Management	Temperature Check, Scheduled Diagnosis
Data Export Medium	USB (HDD, CD-RW, Flash Drive)
System Log	Up to 5,000; user login/out, config changes, remote connect/disconnect, errors
Event Log	Unlimited, alarm-in, motion, video loss, text-in
Standard Hard Disk / Solid-State Storage	Removable 250GB, 500GB, 750GB, 1TB, 1.5TB, 2TB / 60GB, 120GB, 250GB
Text Insertion Maximum	10 Channels
NETWORK	
Connection	10/100 Ethernet
Maximum Connection	Admin: 2 / Watch: 10 / Search: 2
Protocol	Manual, ADSL, DHCP, DVRNS
Max Transmission Rate	120 / 100 ips @ CIF
Network Data Export	Clip-Player (.exe), AVI, JPEG, BMP
SECURITY	
Recording Media	Key-lock
Access Rights	Password Protection; Programmable per Group (up to 256 users; 64 Groups)
Image Authentication	Chained Frame Finger Print Encryption and Watermarking
GENERAL	
Operating Range	9 to 36 VDC
Dimensions	11.5" x 4.7" x 13.75" (WxHxD)
Operating Temperature/with Heater	32°F to 130°F (0°C to 54.4°C) / -20°F to 130°F (-28.8°C to 54.4°C)
Storage Temperature	-40°F to 160°F (-40°C to 71.1°C)
Operating Humidity	0% to 95% non-condensing
Approval	FCC, CE, IEC61373, EN50-155, EN60068-230, Mil-Spec STD-810F, SAE J1455
MINIMUM OPERATING REQUIREMENTS	
Operating System	Microsoft Windows
CPU / RAM	Intel Premium II (Celeron) 266Mhz or higher / 64Mb or higher
VGA	AGP, Video RAM 8MB or higher (800x600, 24bpp or higher)
USB	2.0

Features and Specifications are Subject to Change without Notice

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