

ROADRUNNER™ 4K RECORDER

ON-BOARD VIDEO SECURITY SYSTEM



FEATURES

- Supports up to 16 IP PoE or analog cameras and up to 18 audio inputs
- Records up to 480 images per second (ips) at 4K resolution, and an additional 480 ips at 720p (HD) resolution
- Months of on-board recording with removable storage, up to 10TB
- Optimal network performance with H.265 compression and wireless-ready for any TCP/IP based network
- Fully compatible with mSET Software for fleet-wide management, advanced chain of custody reporting, health monitoring and more

UNPRECEDENTED VIDEO QUALITY

The RoadRunner 4K system delivers the clearest, highest quality video, supporting advanced analytics. Excellent zoom capabilities capture license plates and other details with exceptional clarity.

SUPERIOR FLEXIBILITY

Supporting complete fleets of all vehicle types, the system is available in several compatible and interchangeable formats for recording 4K video from 4, 8, 12, or 16 IP cameras.

RUGGED AND RELIABLE

Designed and manufactured specifically for transit applications, the RoadRunner Recorder is Mil-Spec and SAE rated for proven durability and reliability in harsh mobile applications.

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TECHNICAL DATA

Product Ordering Information	
Part/Model Number (N. America)	RR-HDR4K16-xxxx(S) (16 Cameras Supported) x=Drive size in GB (S) for Solid-State Option
	RR-HDR4K12-xxxx(S) (12 Cameras Supported) x=Drive size in GB (S) for Solid-State Option
	RR-HDR4K08-xxxx(S) (8 Cameras Supported) x=Drive size in GB (S) for Solid-State Option
	RR-HDR4K04-xxxx(S) (4 Cameras Supported) x=Drive size in GB (S) for Solid-State Option
Computer	
Minimum Operating System	Microsoft® Windows 7, 8.1, 10®
Processor	Intel® Core™2 Duo E7200 2.53Ghz
RAM	1.5 GB
Video Hardware	Intel® ATI™ or NVIDIA™
Software	
Operating System	Embedded Linux (Built-in Flash Memory)
Electrical Properties	
Operating Voltage	9 - 36 VDC
Interfaces	
Alarm (relay in)	16
Alarm (relay out)	2
RS232	2
RS485	1
USB	1, 3.0; 1, 2.0
Video Output	HDMI
Aux Power Out	Conditioned 12 VDC (1.5A Max)
Audio Input	18
Mechanical Properties	
Weight	6.66 kg, 14.7 lbs
Dimensions	284 mm x 99 mm x 353 mm, 11.2 in x 3.9 in x 13.9 in
Environment	
Operating Temperature	-28.8°C to 54.4°C, -20°F to 130°F
Storage Temperature	-40°C to 71.1°C, -40°F to 160°F
Relative Humidity	0% to 95% Non-Condensing
Standards	
ISO 7637-2	✓
SAE J1455	✓
MIL-Spec STD-810F	✓

Features and specifications are subject to change without notice. Mar 20

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Approvals	
FCC	✓
CE	✓
Video	
Signal Format	Digital IP
Analog Inputs	with Optional Encoder
Digital Inputs	16, 12, 8 or 4 (Based upon Model)
Frame Rate (16 & 12 Camera)	Dual Stream: Up to 480ips @ 4K; Up to 480ips @ HD (1280x720)
Frame Rate (8 & 4 Camera)	Dual Stream: Up to 240ips @ 4K; Up to 240ips @ HD (1280x720)
Resolution	4K (3840x2160), F-HD (1920x1080), HD (1280x720), W-D1 (864x480), nHD (640x360), W-CIF (432x240)
Video Compression	H.265 (4K Cameras) & H.264 (HD Cameras)
Recording Mode	Time-Lapse, Text-In, Pre and Post Event (up to 30 / 15 minutes)
Image Control	Brightness, Contrast, Saturation, Hue
Search Modes	Text-In, Event, Date/Time, Calendar, Motion, Map Location, Speed
Inputs/Outputs	
Operating Status	"Heartbeat" Health Indicator - Integrated with Event Switch
Accelerometer	+/- 6 Gs, 3-axis, 0.001g resolution; 500 samples / second
GPS	Built-in Receiver or External Source (NMEA0183 or TAIP)
Security	
Recording Media	Key-lock
Access Rights	Password Protection Programmable by Group (up to 256 users; 64 groups)
Authentication	Proprietary Chained Frame Digital Watermarking and 128 bit Encryption
System	
Database File System	Proprietary Optimized Multimedia Database
Disk Management	Temperature Check, Scheduled Diagnosis
Data Export Medium	USB Flash Drive
System Log	Up to 5,000; User Log-in/out, Configuration Changes, Remote Connect/disconnect, Errors
Event Log	Unlimited, Alarm-in, Motion, Video Loss, Text-in
Text Insertion	10 Channel Max.
Removable Storage	Hard Disk Drive: 10TB, 8TB, 4TB, 2TB, 1TB; Solid-State: 2TB, 1TB, eSATA Storage
Network	
Network Connection	3, 1000 Ethernet
Network Protocol	RTP, RTSP, DHCP, DVRNS, SMTP/s(Client)
Network Data Export	EXE, AVI, JPEG, BMP
Optional Embedded WiFi	2x2 MIMO, 5GHz, 802.11ac

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