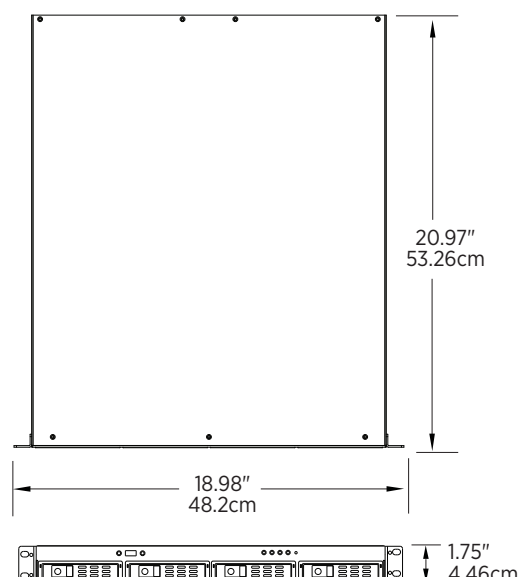# 9116 IP Recorder

High-capacity, high-definition IP recording platform with RAID option

For customers who are planning an all-IP installation, and require a powerful recorder with high throughput, the **9116 IP Recorder** from March Networks® accommodates up to 16 IP cameras and provides a total bandwidth capacity of 200 Mbps. The 9116 recorder delivers high-definition video that's always there when you need it, and the advanced tools that allow you to quickly find the evidence you need. Our solutions help you get your job done faster — from installation to investigation — with these appliance-based recorders as the backbone.

20.97"
53.26cm

18.98"
48.2cm

1.75"
4.46cm

Key Benefits

▼ **More bandwidth per IP channel.** The recorder accommodates a total recording rate of up to 200 Mbps, with no set limit per camera channel.

▼ **High capacity storage.** Store HD video for several weeks, or even months.

▼ **All camera licenses included.** No need to pay for separate channel licenses; benefit from a full-featured recording platform right out of the box.

▼ **Configurable recording policies.** Record video based on user-definable variables like schedule, motion, analytics, etc.

▼ **Embedded, Linux-based, and purpose-built.** Customers can spend more time performing investigations and less time dealing with maintenance issues that can plague a PC-based recorder.

▼ **Optional RAID control.** RAID5 offers the best overall balance of data protection and performance, and makes the most efficient use of drive capacity.

▼ **Redundant power supply.** Hot-swap redundant power supplies ensure maximum reliability.

▼ **Front panel LEDs for easy diagnostics.** Dedicated LEDs indicate the status of each individual hard drive, and diagnostic LEDs convey information about the recorder in general, as well as operational, recording, and export status.

▼ **Real-time health monitoring.** Be alerted to camera, recorder and network issues within seconds.

▼ **Easy access to hard drives by authorized personnel.** All HDDs are accessible via the front panel for hassle-free replacement. Each drive is equipped with its own locking mechanism to prevent unauthorized access.

▼ **QR Code.** Use March Networks' free GURU Smartphone App to scan the recorder's front panel QR code for instant product information, like serial number, warranty information, etc.

Secure your facility with up to 16 HD IP cameras and recognize the power of the recorder's high-bandwidth performance.

9116 IP Recorder

VIDEO

Video Support	H.264, H.264+, MPEG4, MPEG, MJPEG
Max IP Camera Inputs	16 (dual stream support)
Camera Licensing	16 channel licenses included out-of-box
IP Camera Performance*	200 Mbps (Avg 12.5 Mbps / camera)
Video Output	HDMI
Analog Support	Via encoder

AUDIO

Audio Support	Facilitated via audio-enabled cameras

NETWORK

Network 1	GigE port for connection to corporate network
Network 2	GigE port for connection to camera network
Security	Industry standard TLS 1.2 with strong AES encryption, HTTPS encryption, strong hashing algorithms SHA256, continuous security vulnerability assessment
Interface	10/100/1000Base-T Ethernet (2 x RJ-45)

SYSTEMS / NETWORK MANAGEMENT

Operating System	Linux
Bandwidth Throttle	On a per-recorder basis, control which clients receive full bandwidth and which get controlled bandwidth
Bandwidth Scheduling	Yes
Remote Connection	TCP/IP (IPv4)
Concurrent Remote Connections	No set limit

ANALYTICS

Analytics Support	Facilitated via analytics-enabled cameras

STORAGE

Internal Hard Dives	Up to four 3.5" HDDs
Individual Drive Capacity	Up to 18 TB
Total Storage Capacity	Up to 72 TB (54 TB Usable) with RAID Up to 72 TB without RAID
Drive Type	Serial ATA (SATA)
Storage Redundancy	With RAID: RAID5 (reduces throughput during rebuild) Without RAID: Mirroring (reduces throughput)

* IP camera performance for 4-drive configuration (RAID units) = 200 Mbps

PHYSICAL

Dimensions (H x W x D)	1.75 x 18.9 x 21.0 in (4.5 x 48.0 x 53.3 cm)
Mounting	1U high, 19", 4 post server rack mount. Recorder ships with rails.

Weight
  Recorder
  Hard Drive
	
	19.43 lbs (8.81 Kg)
	Add 1.7 lbs (0.8 kg) per HDD

ENVIRONMENTAL

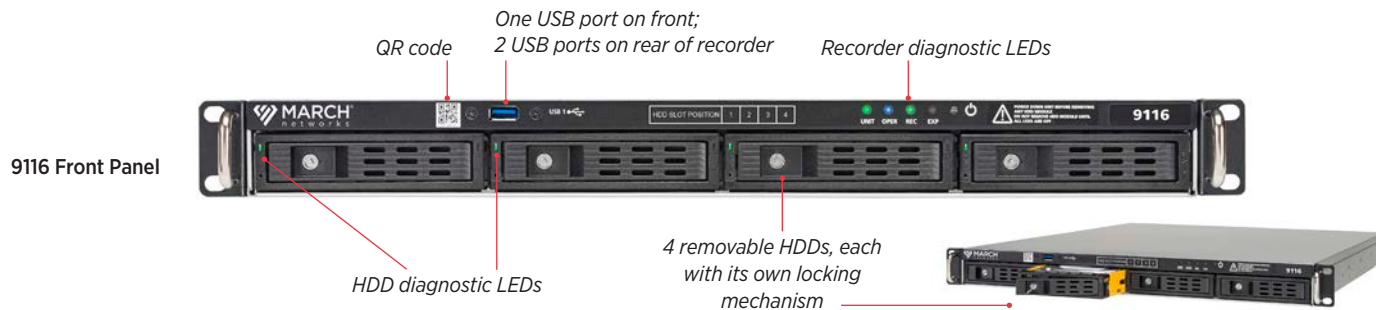|	
Operating Temperature	32° to 104°F (0° to 40°C)
Heat Dissipation	Maximum 188 BTU per hour (system plus 4 hard drives)
Humidity	5% to 95% RH (non-condensing)
Storage Conditions	-40°F to 158°F (-40°C to 70°C)

ELECTRICAL

Internal Power Supply	Dual redundant hot swap with RAID5; 100-240 VAC (auto-sensing), 2.5A, 50-60Hz
Power Consumption	55W typical; 120W max
Systematic Shutdown	Via internal battery; no external UPS communication required

REGULATORY

Safety	IEC60950-1 (ed.2), UL 60950-1 (ed.2), CSA C22.2 No. 60950-1-07 (ed.2)
EMC	FCC 47 CFR Part 15, Subpart 15, ICES-003, EN55032, CISPR32 and AS/NZS CISPR32, EN61000-3-2, EN 61000- 3-3, EN50130-4,EN55024
Compliance Marking	CE-mark, cULus, RCM, WEEE
Environmental Compliance	ROHS and WEEE

3-year warranty on all recorders:

- Options for Repair & Return or Advance Replacement
- March Networks incurs all shipping costs—both ways—for AR's
- All recorder components are covered, including HDDs

One USB port on front;
2 USB ports on rear of recorder

QR code

Recorder diagnostic LEDs

9116 Front Panel

HDD diagnostic LEDs

4 removable HDDs, each with its own locking mechanism

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