

# OBSERVER® 4120

## 20-CHANNEL HDD HYBRID VIDEO RECORDER (HVR)



The Observer® 4120 Hybrid Video Recorder (HVR) combines 16 traditional analog camera inputs with an additional 4 IP camera inputs, allowing you to incorporate the latest technology and sharpest images. This innovative combination allows the Observer 4120 HVR to replace legacy DVR systems as well as implement the latest technology (IP cameras) when you're ready to upgrade your fleet. Hybrid recording technology paired with a compact, rugged enclosure allows the Observer 4120 HVR to be installed in a variety of mobile environments and used for a variety of different applications.

SPECIFICATIONS	
Operating System	Embedded Linux system
A/V Inputs	Audio: 20 channels (Aviation-din x16+ IP Camera x4) Video: 16 channels (Aviation-din x16)
A/V Outputs	Audio: 2 channels (Aviation-din x2) Video: 2 channels (Aviation-din x2)
Video System	NTSC / PAL
On-Screen Display	GPS information, alarm, temperature, acceleration, voltage, device information, firmware version, MCU version, network status
Audio/Video Compression	H.264 / ADPCM
Image Resolution	NTSC: D1 (704 x 480), HD1 (704 x 240), CIF (352 x 240) PAL: D1 (704 x 576), HD1 (704 x 288), CIF (352 x 288) IP Camera: 720P
Recording Mode	General / schedule / alarm (sensor trigger, speed, acceleration, video loss, temperature)
Network	2 x RJ45 ports, 802.11 b/g/n, GPS
Storage	2 x 2.5" SATA HDD (1TB max each)/SSD 1 x Class 10 (64GB max, mirror recording)
Interfaces	2 x RS232 2 x RS485 2 x USB 2.0
Sensors	8 inputs, 2 outputs
UPS	Uninterrupted power supply for MDVR
Power Input	8~36V
Power Output	12V at 500mA, 5V at 500mA
Power Consumption	< 20W (without cameras, accessories)
Dimensions (w x h x d)	9.0 in x 4.83 in x 13 in (228.6 mm x 122.7 mm x 330.2 mm)

### Ample and Secure Storage

Dual hard drives store up to 1 terabyte (TB) of data each (for a combined 2 TB storage capacity), and a removable SD card provides a mirror recording feature to ensure no video is lost. Files are recorded in a patented file system for data security and anti-vibration technology ensures reliable recordings in any environment.

### Observer Management System (OMS) PRO

The Observer series of recorders are complimented by the feature-rich OMS PRO backend management software. OMS PRO renders extensive customizable reports on all aspects of your fleet, while historical GPS mapping and live look-in features let you keep an eye on driver activity, past and present

### Advanced Accessory Options

- Uninterruptable Power Supply (UPS)
- CP4 touch screen control monitor
- External impact sensor and thermometer
- Fireproof backup data storage box
- LED display panel with panic button

The Observer 4120 comes with a 3 year warranty.

# AXIS P39-R SERIES HIGH DEFINITION NETWORK CAMERA



The P39-R series are the third generation high definition mobile IP cameras from Axis® and provide greatly improved image quality compared to previous models. Rugged and compact, the IP-67-rated enclosure is designed to withstand the tough environmental conditions in the mobile environment. The P39-R series cameras are easily installed utilizing a single cable, Power over Ethernet (PoE) connection and integrate seamlessly with Safety Vision's advanced RoadRecorder® 7000 Series Network Video Recorders.

SPECIFICATIONS	
Axis P39-R Series IP Cameras	
Image Sensor	1/2.8" progressive scan RGB CMOS
Resolutions	Axis P3904-R: 1280 × 720 to 160 × 90, 720P Axis P3905-R / P3915-R: 1920 × 1080 to 160 × 90, 1080P
Lens	M12 mount, fixed iris, megapixel resolution, 3.6 mm, F 2.0
Field of View	87° horizontal, 47° vertical, 102° diagonal
Minimum Illumination	0.2 Lux
Shutter Speed	2 s - 1/28,000 s (50 Hz), 2 s - 1/33,500 (60 Hz)
Compression	Video: H.264/MJPEG Audio (P3915-R): G.711/G.726
Image Settings	Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Backlight compensation, Fine tuning of behavior at low light, Wide dynamic range - dynamic contrast, Rotation including Corridor Format, Text and image overlay, Privacy mask, Mirroring of images, Traffic Light mode
Connectors	RJ45 Male or rugged M12 connector P3915-R: 3.5 mm connector for audio and I/O connector (1 In and 1 Out)
Protocols	Pv4/v6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH
Edge Storage	MicroSD/microSDHC/microSDXC slot supporting memory card up to 64 GB (card not included). Support for recording to network share (network-attached storage or file server)
Security	Password protection, IP address filtering, HTTPS encryption, Digest authentication, User access log
Power Source	Power over Ethernet IEEE 802.3af, Class 3
Power Consumption	3.5W
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Environmental	IP67 with outdoor enclosure
Dimensions	4.2 in dia. × 1.9 in (107 mm dia. × 49 mm)
Weight	0.59 lbs (P3904-R, P3905-R), 0.63 lbs (P3915-R)

## POWERFUL IMAGING

The Axis P39-R series of IP cameras support H.264 and MJPEG compression with dual streaming capability to maximize recording times. Progressive scan technology results in clearer images, particularly of moving people and vehicles, compared with standard interlaced analog cameras. The P39-R series perform well in daylight as well as in low-light conditions and are specially adapted to have a fast response to changing lighting conditions, achieved with a new larger sensor and Axis' new chip technology.

## NEW FEATURES

Augmenting the advanced new imaging capabilities is the new Traffic Light Mode, which helps to better distinguish colors of traffic lights in very dark scenes and enhances critical potential evidence. The P39-R cameras also introduces Edge Storage, enabling video recording directly to an on-board SD card. This feature provides fail-over recording that temporarily stores images in the event of network failure.

## MULTIPLE MODELS AVAILABLE

The P3904-R and P3905-R models record at a maximum resolution of 720P and 1080P, respectively. Both models include advanced imaging, impressive low-light performance, rugged design, and the innovative Traffic Light Mode and Edge Storage. In addition to these features, the P3915-R records at a maximum resolution of 1080P and includes an audio-in feature, allowing microphones to be connected for audio recording, and an I/O connection, providing the capability to connect the camera to external sensors that might trigger events.

\*Simulated screenshot

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