Video**Sphere**

Intelligent Video Management

VideoSphere™ MegaPX and CamPX Fixed IP Cameras combine D1 or HD resolution and real-time video delivery with outstanding bandwidth and storage efficiency. These cameras provide fully compressed H.264 digital video for unmatched image quality and color reproduction in a variety of lighting conditions. A range of optional video analytics and other powerful features are supported.

COST-SAVING DESIGN

All VideoSphere Fixed IP cameras use H.264 compression technology to deliver as much as 20 times the efficiency of comparable JPEG-based IP cameras. The compression technology enables organizations to archive higher quality video for longer periods of time while significantly reducing bandwidth and storage costs. The cameras' Power over Ethernet (PoE) design allows easy installation without the burden of additional cables for power. Advanced features improve operational efficiency and performance, such as the ability to update camera software remotely over the network.

ANALYTICS-READY

To help organizations increase the value of the video and data being captured, the CamPX and CamPX Dome cameras support embedded video analytics available as part of the VideoSphere Intelligent Video Management solution. These advanced applications range from left baggage detection and facial detection to queue length monitoring and perimeter protection. They allow organizations to improve customer service, marketing and security efforts and respond quickly to unusual or suspicious events. System health analytics include camera tampering alarms and camera alignment detection, which alert maintenance staff to moved, obscured, covered or spray-painted cameras.

FLEXIBLE CONFIGURATION

VideoSphere IP cameras use a sophisticated, adaptive transmission algorithm to automatically select the video stream that best maximizes the network bandwidth available. For example, each video stream can be configured for frame rate, quality and resolution so that 2 Mbit; D1 could be used for real-time recording, 256 Kbit; CIF for an ADSL connection, and 10 Kbit; QCIF for wireless cellular networks. A manual override capability lets users select the parameters required for a specific application.

Combined with industry-standard PoE capabilities and advanced compression techniques, the VideoSphere family of fixed IP cameras is a valuable addition to any network environment. The cameras are supported by March Networks' hybrid NVR and Video Management System (VMS) platforms working together with VideoSphere SiteManager desktop application software for comprehensive video monitoring, recording and playback.

FEATURES

MegaPX Cameras

- **HD** video quality
- H.264 video compression to maximize efficient use of bandwidth and storage
- Real-time video streaming up to 30 fps
- Integrated SD cards[1] with Shadow Archiving™
- NAS recording for standalone or redundant recording solutions
- Two-way audio support
- Cost-efficient Power over Ethernet
- RTP/RTSP support

CamPX Cameras

- D1 video quality
- H.264 video compression to maximize efficient use of bandwidth and storage
- Real-time video streaming up to 30 fps (NTSC) / 25 fps (PAL)
- Support for a range of embedded analytic applications
- Cost-efficient Power over Ethernet
- User name and password protection for enhanced security
- RTP/RTSP support

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Video**Sphere**
MEGAPX

VideoSphere MegaPX fixed IP cameras put HD video quality in the palm of your hand. These compact, lightweight cameras are ideal for low-profile applications or installation in confined spaces.

Model	MegaPX 720p	MegaPX 1080p
Sensor type	1/2.5" CMOS Progressive Scan	1/2.5" CMOS Progressive Scan
Lens	C / CS Mount (not included)	C / CS Mount (not included)
Light sensitivity – color	0.7 lux	0.7 lux
Slow shutter mode sensitivity (day/night auto)	< 0.08 lux	< 0.08 lux
Dynamic range	70.1 dB	70.1 dB
Signal-to-noise ratio	> 50 dB	> 50 dB
White balance	Auto tracking, manual, preset	Auto tracking, manual, preset
Backlight compensation	Yes	Yes
AGC, Auto Iris	Yes	Yes
Privacy masking	With VMS	With VMS
Compression	H.264 / M-JPEG	H.264 / M-JPEG
Max. resolution	1280x720; HD (1MP)	1920x1080; HD (2MP)
Max. frame rate	30 fps @ 1280x720	30 fps @ 1920x1080
Audio	Two-way	Two-way
Internal storage	SDHC card[1] slot, Shadow Archive-enabled	SDHC card[1] slot, Shadow Archive-enabled
Network interface	Ethernet 10/100 Mbps	Ethernet 10/100 Mbps
Power supply	12 VDC / PoE Class 2	12 VDC / PoE Class 2
Power consumption	< 4 W	< 4 W
Operating temperature	32 to 122°F / 0 to 50°C	32 to 122°F / 0 to 50°C
Relative humidity	8 - 90% non-condensing	8 - 90% non-condensing
Weight	1.1 lbs / 0.5 kg	1.1 lbs / 0.5 kg
Dimensions (no lens) (H x W x D)	2.25 x 2.12 x 3.6 in. / 5.7 x 5.4 x 9.2 cm	2.25 x 2.12 x 3.6 in. / 5.7 x 5.4 x 9.2 cm
Mounting options	1/4" x 20 (top or bottom)	1/4" x 20 (top or bottom)
Environment	Indoor	Indoor
Certifications	CE – EMC Directive 2004/108/EC, Standards EN55022, EN55024, EN50130-4; FCC Part 15 Subpart B, ICES-003; RoHS Directive (2002/95/EC); C-tick	CE – EMC Directive 2004/108/EC, Standards EN55022, EN55024, EN50130-4; FCC Part 15 Subpart B, ICES-003; RoHS Directive (2002/95/EC); C-tick

Video**Sphere**
CAMPX

Model	CamPX	CamPX Dome
Sensor type	1/3" CMOS WDR Progressive Scan	1/3" Sony Double Scan CCD
Lens	C / CS Mount (not included)	3.3 -12 mm Varifocal DC Iris
Light sensitivity – color	0.8 lux	0.2 lux
Slow shutter mode sensitivity (day/night auto)	< 0.08 lux	0.0001 lux (with built-in IR)
Dynamic range	105 dB	> 96 dB
Signal-to-noise ratio	> 48 dB	> 48 dB
White balance	Auto tracking, manual, preset	Auto (ATW), push lock, user selectable
Backlight compensation	Yes	Yes
AGC, Auto Iris	Yes	Yes
Embedded analytics	Optional	Optional
Privacy masking	Yes	Yes
Analog output	75Ω, PAL / NTSC (selectable)	
Compression	H.264 / MPEG-4	H.264 / MPEG-4
Max. resolution PAL / NTSC	D1; 720x576 / 720x480	D1; 720x576 / 720x480
Max. frame rate	30 fps (NTSC) / 25 fps (PAL)	30 fps (NTSC) / 25 fps (PAL)
Audio	Two-way	One-way
Alarm	1	1
Relay	1	1
Network interface	Ethernet 10/100 Mbps	Ethernet 10/100 Mbps
Power supply	12 VDC / PoE Class 2	12 VDC / PoE Class 2; Class 0 with IR
Power consumption	5 W	10 W
Operating temperature	32 to 122°F / 0 to 50°C	14 to 122°F / -10 to 50°C
Relative humidity	8 - 90% non-condensing	8 - 90% non-condensing
Weight	1.2 lbs / 0.5 kg	2.9 lbs / 1.3 kg
Dimensions (no lens) (H x W x D)	2.44 x 2.4 x 6.06 in. / 6.2 x 6.1 x 15.4 cm	4.72 x 6.46 in. / 12.0 x 16.4 cm
Mounting options	1/4" x 20 (top or bottom)	Wall and ceiling (surface and flush / indoor)
Environment	Indoor	Indoor / outdoor (IP66)
Certifications	CE – EMC Directive 2004/108/EC, Standards EN55022, EN55024, EN50130-4; FCC Part 15 Subpart B, ICES-003; RoHS Directive (2002/95/EC); C-tick	CE – EMC Directive 2004/108/EC, Standards EN55022, EN55024, EN50130-4; FCC Part 15 Subpart B, ICES-003; RoHS Directive (2002/95/EC); C-tick

VideoSphere fixed IP cameras deliver exceptional image quality and color reproduction.

VideoSphere Fixed IP Cameras

VideoSphere MegaPX 720p and 1080p Cameras

The VideoSphere MegaPX 720p and 1080p are state-of-the-art IP cameras capable of sending high resolution images over the network at maximum frame rates (1080p streams at 30 fps at full 2 megapixel resolution), ensuring exceptional detail and motion capture.

These MegaPX cameras combine megapixel quality and a 16x9 HD format with H.264 technology – the highest performing compression algorithm available today. The resulting savings in bandwidth and storage allow the 720p and 1080p to record video independently to an integrated SDHC card[1], providing vital backup in the case of a network outage. Moreover, an innovative Shadow Archiving feature enables users to easily access video recorded on the cameras' SDHC cards via VideoSphere SiteManager software. Both MegaPX cameras are also able to encode H.264 and M-JPEG streams simultaneously in real time at superb quality levels and low bit rates.

MegaPX 720p and 1080p

VideoSphere CamPX and CamPX Dome Cameras

Ideal for environments with challenging lighting conditions, the VideoSphere CamPX features a wide dynamic range sensor with low noise to ensure faithful color reproduction, even in high contrast and low light scenes. D1 resolution at 30 fps provides high quality video, and H.264 / MPEG-4 compression technologies ensure excellent bandwidth and storage efficiency. Integrated alarm, relay and audio support deliver powerful system integration, and Power over Ethernet (PoE) lowers total cost of ownership.

The VideoSphere CamPX Dome is a vandal-resistant, fixed IP dome designed for outdoor use. The camera has a built-in IR illuminator for True Day/Night capability with removable IR filter, and also includes a varifocal lens to customize a field-of-view. Both CamPX cameras support optional, embedded video analytics, which enable operations control centers to receive immediate, intelligent alerts.

CamPX

CamPX Dome

NOTE: [1]Memory card not included

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