

# 2316 Encoder

The March Networks® **2316 Encoder** is a high-performance, 16-channel video encoder that expands the analog camera capacity of our 4332 C or the 4324 C Hybrid NVRs and enables the optimum use of the recorders' internal storage.



## EFFICIENT H.264

The encoder's support for H.264 — the most efficient video compression technique available — yields superb video quality and frame rate at low bandwidth. Each of the encoder's 16 channels can accommodate one H.264 stream in all resolutions up to 4CIF.

## COMPREHENSIVE SURVEILLANCE

The 2316 Encoder's intelligent video capabilities, such as multi-zone video detection and privacy masking, help simplify video management and ensure compliance with privacy regulations. In addition to alarms (16/3), the unit supports four audio channels, including one for bi-directional communication, that synchronize with recorded video to provide more comprehensive evidence.

## SYSTEM INTEGRATION

Through seamless integration with March Networks 4332 C and 4324 C Hybrid NVRs, the encoder can be used to expand the analog camera capacity of those systems by as many

as 16 channels, for a total of 32 analog inputs. This allows administrators, security managers and loss prevention investigators to easily access and manage video from anywhere on the network.

Video, audio and data from the 16-channel encoder are captured by the 4332 C or 4324 C Hybrid NVRs, which provide users with all the powerful features of our Visual Intelligence software. The *Live Monitoring Console* application provides a single, intuitive interface for viewing live and archived video, while the *Evidence Manager* and *Investigator* applications support advanced searching and case management. Multi-site users benefit from the efficiency of our *Enterprise Service Manager*, which enables centralized control and health monitoring across the entire surveillance infrastructure.

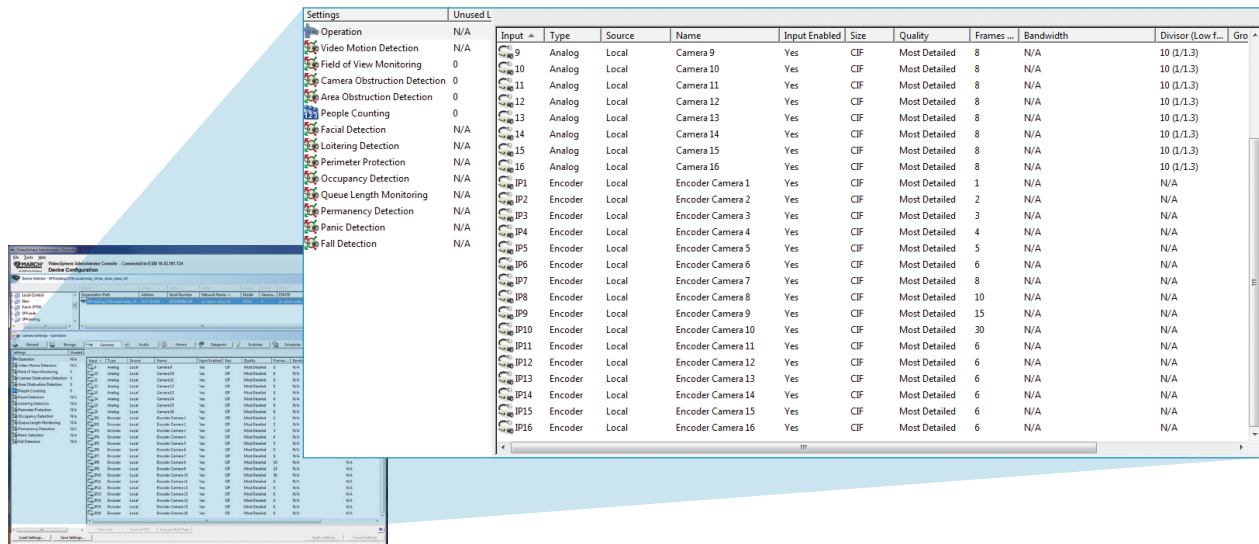
For organizations that require an open, standards-based video management system, the 4000 C Series hybrid recorders are also compatible with March Networks Command™ Enterprise.

## FEATURES

- 16 video channels and 4 audio inputs
- H.264 video compression
- Up to 4CIF resolution
- Bi-directional, half-duplex audio
- Alarms (16/3)
- Multi-zone video detection
- Accessible through private or public network port of host recorder
- Health monitoring

## PART NUMBER

- 27250



Input	Type	Source	Name	Input Enabled	Size	Quality	Frames ...	Bandwidth	Divisor (Low f...	Gro
9	Analog	Local	Camera 9	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
10	Analog	Local	Camera 10	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
11	Analog	Local	Camera 11	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
12	Analog	Local	Camera 12	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
13	Analog	Local	Camera 13	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
14	Analog	Local	Camera 14	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
15	Analog	Local	Camera 15	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
16	Analog	Local	Camera 16	Yes	CIF	Most Detailed	8	N/A	10 (1/1.3)	
IP1	Encoder	Local	Encoder Camera 1	Yes	CIF	Most Detailed	1	N/A	N/A	
IP2	Encoder	Local	Encoder Camera 2	Yes	CIF	Most Detailed	2	N/A	N/A	
IP3	Encoder	Local	Encoder Camera 3	Yes	CIF	Most Detailed	3	N/A	N/A	
IP4	Encoder	Local	Encoder Camera 4	Yes	CIF	Most Detailed	4	N/A	N/A	
IP5	Encoder	Local	Encoder Camera 5	Yes	CIF	Most Detailed	5	N/A	N/A	
IP6	Encoder	Local	Encoder Camera 6	Yes	CIF	Most Detailed	6	N/A	N/A	
IP7	Encoder	Local	Encoder Camera 7	Yes	CIF	Most Detailed	8	N/A	N/A	
IP8	Encoder	Local	Encoder Camera 8	Yes	CIF	Most Detailed	10	N/A	N/A	
IP9	Encoder	Local	Encoder Camera 9	Yes	CIF	Most Detailed	15	N/A	N/A	
IP10	Encoder	Local	Encoder Camera 10	Yes	CIF	Most Detailed	30	N/A	N/A	
IP11	Encoder	Local	Encoder Camera 11	Yes	CIF	Most Detailed	6	N/A	N/A	
IP12	Encoder	Local	Encoder Camera 12	Yes	CIF	Most Detailed	6	N/A	N/A	
IP13	Encoder	Local	Encoder Camera 13	Yes	CIF	Most Detailed	6	N/A	N/A	
IP14	Encoder	Local	Encoder Camera 14	Yes	CIF	Most Detailed	6	N/A	N/A	
IP15	Encoder	Local	Encoder Camera 15	Yes	CIF	Most Detailed	6	N/A	N/A	
IP16	Encoder	Local	Encoder Camera 16	Yes	CIF	Most Detailed	6	N/A	N/A	

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## VIDEO

<b>Input</b>	16-channel, BNC (1.0Vp-p, 75Ω)
<b>Standard</b>	NTSC (525 Line), PAL (625 Line)

## AUDIO

<b>Input</b>	4-channel, BNC (line level) Channel 1 for bi-directional audio synchronously
<b>Output</b>	1-channel, BNC (200-3000mV, 5KΩ)
<b>Streaming</b>	Two-way half-duplex
<b>Compression</b>	G.711a

## RECORDING

<b>Video/Audio Compression</b>	H.264 / G.711a
<b>Resolution</b>	
<b>NTSC</b>	704×480 (4CIF/D1), 352×480 (HD1), 704×240 (2CIF), 352×240 (CIF), 176×120 (QCIF)
<b>PAL</b>	704×576 (4CIF/D1), 352×576 (HD1), 704×288 (2CIF), 352×288 (CIF), 176×144 (QCIF)
<b>Video Frame Rate</b>	
<b>NTSC</b>	Up to 30 fps @ 4CIF; 4 fps @ 4CIF concurrent when connected to a 4332 C/4324 C Hybrid NVR
<b>PAL</b>	Up to 25 fps @ 4CIF; 3 fps @ 4CIF concurrent when connected to a 4332 C/4324 C Hybrid NVR
<b>Image Quality</b>	1~5 level (level 5 is the best, VBR effectively)

## VIDEO DETECTION & ALARM

<b>Trigger Events</b>	Recording, PTZ movement, tour, snapshot, alarm, email
<b>Motion Detection Zones</b>	396 (22×18)
<b>Sensitivity</b>	1-6 (level 6 is highest)
<b>Video Loss &amp; Camera Blank</b>	Support
<b>Inputs</b>	16 current loop inputs supporting open/closed detection
<b>Outputs</b>	3 relay switch outputs (30 VDC, 1 Amp)

## NETWORK

<b>Ethernet</b>	RJ-45 (10/100Base-T); connect to private network port on 4332C/4324C NVR
<b>Network Functions</b>	TCP/IP, UDP, DHCP, DNS

## GENERAL

<b>Power Supply</b>	12VDC, 3.3A; external power adapter
<b>Power Consumption</b>	12W
<b>Operating Conditions</b>	-10° to 55°C (15° to 130°F); 10-90% relative humidity Maximum 255 BTU generated per hour
<b>Dimensions (HxWxD)</b>	1.6 x 17.5 x 11.8 in (4.2 x 44 x 30 cm)
<b>Weight</b>	5 lbs (2.35 kg)
<b>Mounting Options</b>	Desktop, rack (1U high)
<b>Regulatory Approvals</b>	UL60950, FCC Part 15 Subpart B, CE EN55022, EN55024, ICES-003, RoHS Directive (2002/95/EC)

