

**Full HD 1080P Output,  
16CH D1 H.264  
Real-Time Recording and Playback**



**PARAGON 264 DVR**



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Full HD 1080P Output, 16CH D1 H.264 Real-Time Recording and Playback



The latest EverFocus digital video recorder generation is based on H.264 compression technology, resulting in enhanced recording capacity and improved network image transmission speed with high image quality. Comprehensive features and extended event recording settings enable the almost universal application of this DVR series.

## ► Features

- H.264 Compression format
- D1 real time recording rate and playback rate for all cameras (Paragon 264X4)
- HDMI video output (1080p)
- Multiple Main Monitors: Separately configured HDMI 1080p and VGA/BNC Main monitor outputs
- Call monitor: additional composite BNC output with multiplex and/or sequenced views
- Simultaneous high bandwidth recording (400 PAL/480 NTSC (D1)) with reduced bandwidth remote view streaming (up to 400 PAL/480\* NTSC (CIF))
- Pentaplex Operation (Simultaneous live, recording, playback, archiving and remote viewing)
- Free EverFocus DDNS Service - static IP address is not required for reliable remote access
- User friendly GUI with graphical icons and visual indicators
- Supports eSATA external HDD
- Supports 3GPP for mobile monitoring
- Multiple Control Inputs: mouse/front panel/remote controller/EKB500 keyboard
- Built-in record time calculator for fast recording estimation
- Express Setup: A unique menu option for quick & easy installation
- Express Archive: Archive video instantly(to USB) while playing back
- Express Playback: Simply point, click and drag the playback bar to view desired recordings
- Express Search: Use the intuitive playback bar with simple drag & drop operations
- Remote configuration support from the built-in web interface
- Gigabit Ethernet interface for remote network viewing and control
- On-screen PTZ control via mouse or front panel
- Audio recording capabilities
- Support for up to 2 Hot Swappable HDD or 4 fixed internal HDD
- Built-in DVD burner\*
- 3 USB 2.0 ports (2 located on front panel, 1 located on back panel) for video archive and mouse usage
- Multi-language support
- Watermark capabilities to identify intentional modifications to exported data
- 19" Rack mountable – rack ears included

\*Depending on specific model

## ► Advantages

### Full HD/HDMI Video Output

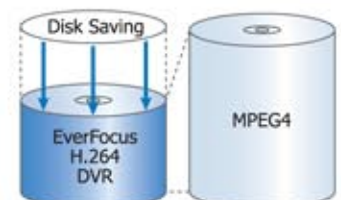
Full HD 1080p provides superior picture performance on a massive scale, with an entire megapixel of resolution allocated to main monitor display. HDMI digital output renders stunning images from any resolution, and enhances motion reproduction to deliver smoother and crisper looking video.



### H.264 Compression Technology

H.264 compression technology is considered to be approximately 1.5 times more efficient in compression ratio than MPEG4. Another benefit from H.264 compression is the remote viewing of high quality images with lower LAN/WAN bandwidth utilization.

#### ► Comparison





## Flexible Recording Control Plus 16 channel Audio Recording

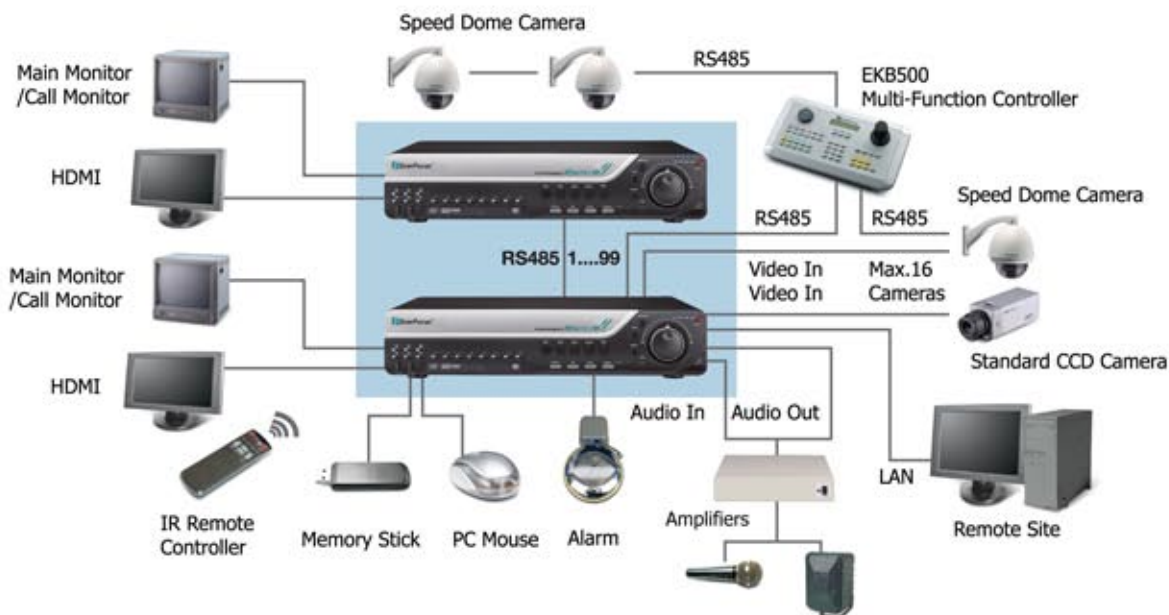
Continuous, event recording or schedule recording with recording parameter changes in response to event triggers can be set in combination for an optimal response to various applications and circumstances. In addition, audio recording is possible on up to 16 independent channels.

## Pentaplex operation plus Dual Streaming

For optimized system performance, the Paragon264X4 can simultaneously record full D1 resolution on all 16 cameras at 25 PAL/30 NTSC FPS per camera, and play back all 16 cameras at D1 25 PAL/30 NTSC FPS. It also supports dual streaming at CIF resolution at 25 PAL/30 NTSC FPS for simultaneous remote viewing of full motion on all 16 cameras. Thus it can achieve real time high quality recording and playback locally, and still deliver smooth remote motion reproduction in low bandwidth environments.



## System Configuration



## 3GPP Streaming to Mobile Devices

The Paragon264 series supports 3GPP for mobile monitoring, allowing you the capability to check your home or business on-the-go from a variety of RTSP capable mobile devices.



## Convenient Monitoring with web-viewer

The DVR has a built-in web server that enables users to monitor live and playback DVR images without special software, through a web browser, from any supported PC.



## Powerful Search with Smart Function

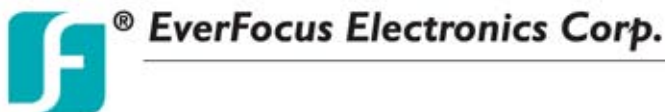
Users can search video by date, time and event or filter by type of recording quickly and efficiently. A smart search function enables you to set specific region of interest (ROI) in the field of view and search motions within the ROI by any camera at any date and time. Users can quickly isolate incidents and play back relevant video for efficient review of significant activities.

## Real-time D1 High-resolution Recording

Applying high speed data processing technology across all channels with H.264 full-frame compression, the Paragon264X4 achieves the ability to record and play high quality D1 resolution images at 400 PAL/480 NTSC FPS: full resolution, real time recording and playback on all cameras, without compromise. The Paragon series also provides high quality still image recording in response to event notifications.

## ► Specifications

Model	Paragon264x4	Paragon264x2
Channels	16	8, 16
Compression Format	H.264	
HDMI Video Output	Yes	
Recording Rate/Resolution	480 NTSC /400 PAL (D1) 480 NTSC /400 PAL (2CIF) 480 NTSC /400 PAL (CIF)	240 NTSC /200 PAL (D1) 480 NTSC /400 PAL (2CIF) 480 NTSC /400 PAL (CIF)
Playback Rate/Resolution	480 NTSC /400 PAL (D1) 480 NTSC /400 PAL (2CIF) 480 NTSC /400 PAL (CIF)	240 NTSC /400 PAL (D1) 480 NTSC /400 PAL (2CIF) 480 NTSC /400 PAL (CIF)
Dual Streaming (automatic bandwidth conservation)	480 NTSC / 400 PAL (CIF)	240 NTSC / 200 PAL (CIF)
3GPP	Yes (RTSP stream)	
Pentaplex Operation	Simultaneous Live, Recording, Playback, Archive and Remote Viewing	
Camera Inputs	16 BNC	8 or 16 BNC
Looping Camera Outputs	One per camera input (BNC)	
Video Outputs	Main HDMI; Main VGA/BNC; Multiplex Call BNC	
Matrix Output	4 Outputs (optional)	
Audio Input/Output (RCA)	16 Inputs / 1 Output	8 or 16 Inputs / 1 Output
Recording Mode	Manual, Schedule and Event	
Playback Search	By Date/Time and Event	
Alarm Inputs	Same number as Video Inputs	
Alarm Outputs	4 Alarm Outputs	
Video Pause	Yes	
Video Loss Detection	Yes	
Motion Detection	Yes	
Event Log	Yes	
Watch Dog Timer	Yes	
Internal HDD	2 Hotswappable / 4 Internal HDD (model dependent)	
External HDD	1 eSATA	
Built-in DVD Burner	Slim Type DVD Burner(Optional)	
User Interface	GUI(Graphical User Interface)	
OS	Embedded Linux	
Network/Protocol	Gigabit Ethernet; TCP-IP / DHCP/ PPPoE / DDNS	
Control PTZ via OSD	Yes	
USB	3 USB 2.0 port(2 on Front Panel, 1 on Back Panel)	
Schedule Setting	Supports Express and Advanced Schedule Settings	
User Access	3 Levels of User Access Supported	
RS-232	9-pin D-Sub socket (male)	
RS-485	1 RS485 (3 Terminal connector)	
Power Source	100VAC~240VAC	
Dimensions (L x W x H)	410 x 430 x 88 mm / 16.2" x 16.9" x 3.5"	
Temperature	0°C~40°C / 32°F~104°F (20~80% humidity)	
Certifications	CE, FCC, UL	
Supported PTZ Protocols	EverFocus, Pelco D, Pelco P, Samsung, Transparent	



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