

 EverFocus®



**PowerPlex**

**eDR880/eDR1680**

8/16 CHANNEL REAL-TIME DIGITAL VIDEO RECORDER

# EverFocus Electronics Digital Recorders: The best just got better!

*Introducing the eDR1680/880: Real time recording, MPEG-4 compression, Remote archiving and configuring capabilities, and easy to use front panel design make our new Digital Recorders the new standard in surveillance technology.*



*EverFocus is proud to introduce the new generation of digital recorders. MPEG-4 compression and superior video resolution (up to 720x480) provides the ultimate in recorded image clarity. With new features like real time recording (30FPS per camera), PTZ controls, Active-X support for remote configuring and archiving, and four audio channels, the benefits of the eDR1680 are as clear as the recorded images. Fast and convenient image retrieval, motion detection with programmable areas, a user-friendly graphic user interface, and an easy to use jog dial make navigating the new features simple and convenient.*

*The eDR series digital video recorder provides all of the practical and easy to use features that you have come to expect from the eDR series. Add to that higher image quality, faster live image refresh rates, and a number of new features - it's no wonder EverFocus is becoming the first choice in CCTV.*

## Features

- 8/16 CH real-time DVR
- Quadruplex operation: recording, live, playback, & remote viewing
- 8/16 Color and/or B/W camera inputs (NTSC/PAL)
- MPEG-4 compression with resolution up to 720x480 (NTSC) / 720x576 (PAL)
- Real time recording (up to 25/30 FPS) per channel
- Real time live display (up to 25/30 FPS) per channel
- Real time playback (up to 25/30 FPS) per channel
- 16/13/10/9/7/4 windows or full-screen display
- 4 audio inputs, 1 audio output
- Synchronized video & audio
- Video/audio storage in 1 built-in IDE HDD, 1 hot swappable IDE HDD
- Programmable storage for highest surveillance availability
- 1 IDE CD-RW (DVD+RW) (optional) for video/audio backup
- Non-editable video/audio data
- Motion detection with programmable area and sensitivity for each camera
- Alarm processor with configurable triggering conditions and reactions
- Alarm history log for video loss, motion, alarm input, etc.
- Pre-record time up to 10 seconds
- Sophisticated PTZ control functions, including pan, auto pan, tilt, zoom, focus, speed, preset locations, sequence, etc.
- RS232 ports for modem connection and PTZ control
- Optional SCSI connector for additional backup devices
- Ethernet connector for internet/intranet access
- Remote alarm notification via e-mail, dial-out, etc.
- Active-X support for third-party software integration & networking CCTV applications
- Multi-level password to ensure high degree of security
- Multi-lingual support
- TV monitor out and VGA monitor out
- Call (spot) monitor out
- Front panel LCD & LEDs
- Input devices: keypad & jog-shuttle, and I/R remote controller (1 I/R remote controller can control up to 4 eDRs)
- Built-in CompactFlash, power off data protection, power on and run
- Built-in RTC
- Hardware WDT



## Back Panel



PowerPlex eDR1680 (Back Panel)

- |  |                                      |                           |                          |
|--|--------------------------------------|---------------------------|--------------------------|
| 1 Video Input Connectors (Video In 1-8)    | 7 Call Monitor Output                | 13 LAN connector          | 19 Alarm Inputs          |
| 2 Video Output connectors (Video Out 1-8)  | 8 Audio Output Connector (Audio Out) | 14 Video System Switch    | 20 SCSI Connector        |
| 3 Video Input Connectors (Video In 9-16)   | 9 Main Monitor CVBS Output           | 15 RS232 connector #2     | 21 Cooling Fan           |
| 4 Video Output connectors (Video Out 9-16) | 10 Main Monitor Y/C Output           | 16 USB Connector          | 22 Power Selector Switch |
| 5 Audio Input Connectors (Audio In 1-4)    | 11 Main Monitor VGA Output           | 17 75ohm Termination 9-16 | 23 Power Switch          |
| 6 RS232 connector #1                       | 12 75ohm Termination 1-8             | 18 Alarm Outputs          | 24 Main Power Socket     |

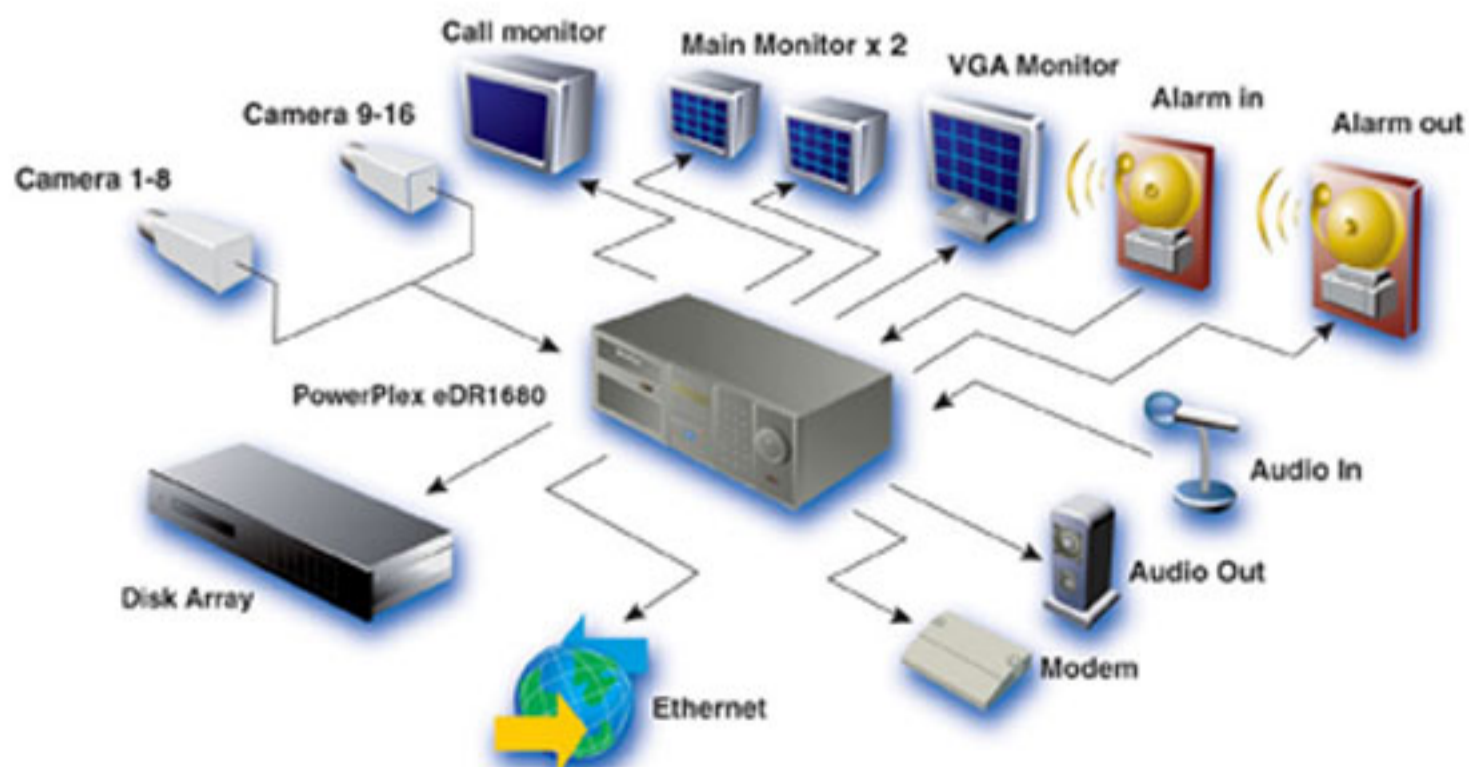
## Advantages

**Live, recording, playback and remote viewing all at the same time with Quadruplex surveillance feature.**

One eDR1680 supports up to 16 cameras and with the built in frame switching function. Recording, playback, and remote viewing can be performed simultaneously in a viewing area that can be divided up in the following window configurations:



## System Connections



# PowerPlex eDR880/1680 REAL-TIME DIGITAL VIDEO RECORDER

## Specifications

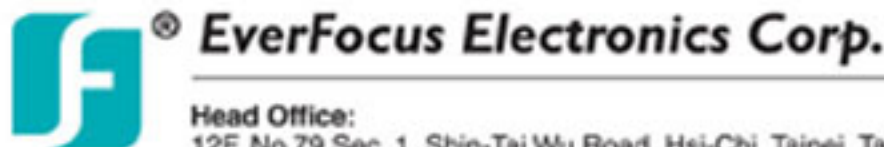
|                           |   |                              |   |
|---------------------------|---|------------------------------|---|
| <b>Video Format</b>       | NTSC/EIA or PAL/CCIR,<br>DIP switch selectable  | <b>SCSI</b>                  | Optional connector for backup devices   |
| <b>Video Input</b>        | 8/16 camera inputs, 1Vp-p/75ohm   | <b>RS-232</b>                | 2 DB-9 male connectors,<br>1 for modem connection, 1 for PTZ control                                      |
| <b>Video Loop-through</b> | 8/16 camera loop-through outputs,<br>1Vp-p/75ohm  | <b>PTZ Control</b>           | Pan, auto pan, tilt, zoom, focus, speed,<br>preset locations, sequence, etc.                              |
| <b>Video Output</b>       |   | <b>Remote access</b>         | Internet Explorer   |
| <b>Main Monitor</b>       | 1 BNC composite video output, 1Vp-p/75ohm<br>1 mini-din S-video output, 1Vp-p/75ohm<br>1 D-SUB 15-pin computer monitor output | <b>Active-X Support</b>      | Video, alarm inputs,<br>alarm outputs, etc.   |
| <b>Call Monitor</b>       | 1 BNC composite video output, 1Vp-p/75ohm   | <b>Remote alarm</b>          |   |
| <b>Video Compression</b>  | MPEG-4  | <b>Notification</b>          | Yes, e-mail, dial-out, etc.   |
| <b>Video Resolution</b>   | Up to 720x480 (NTSC) or 720x576 (PAL)   | <b>Motion Detection</b>      | Yes, with configurable detection area<br>(16x12, 8x6, 4x3) and 3 levels sensitivity                       |
| <b>Video Display</b>      | 1/4/7/9/10/13/16 video windows,<br>16 million colors  | <b>Video Loss Detection</b>  | Yes   |
| <b>Display Resolution</b> | 640x480 for NTSC, 800x600 for PAL   | <b>Event Log</b>             | Yes   |
| <b>Video Freeze</b>       | Yes   | <b>User Interface</b>        | OSD menu driven   |
| <b>Sequential Switch</b>  | Programmable, with adjustable dwell time<br>(5-60 seconds)  | <b>Front Panel LCD</b>       | Alarm Message, HDD Status,<br>System Action, Time   |
| <b>Audio Input</b>        | 4, synchronized with video 1-4 respectively   | <b>Front Panel LED</b>       | Power, Link, Traffic, HDD active 1,<br>HDD active 2   |
| <b>Audio Output</b>       | 1, different audio channels can be mixed<br>together  | <b>Front Panel ID switch</b> | For I/R remote control  |
| <b>Alarm Input</b>        | 16 inputs, Contact or TTL/CMOS signal,<br>polarity selectable   | <b>Setup</b>                 | On screen setup   |
| <b>Alarm Output</b>       | 4 Normally Open, 4 Normally Closed Photo<br>Coupler outputs   | <b>User Input Device</b>     | Keypad & jog-shuttle, and/or IR remote<br>controller, 1 I/R remote controller can<br>control up to 4 eDRs |
| <b>Hard Disk Storage</b>  | Up to 2 sets of Hard Disks:<br>one non-removable, one hot swappable   | <b>Language</b>              | Multi-lingual, including English, German,<br>Spanish, Chinese, Japanese, etc.                             |
| <b>Hard Disk Type</b>     | IDE Type, 3.5" half height  | <b>Buzzer</b>                | Yes   |
| <b>Backup Device</b>      | 1 set of IDE type CD/RW or DVD+RW<br>(optional) for video/audio backup  | <b>Timer</b>                 | Built-in real time clock  |
| <b>Recording Rate</b>     | Up to 30 FPS (NTSC) or 25 FPS (PAL) per<br>camera   | <b>Watch Dog Timer</b>       | Yes   |
| <b>Pre-record Time</b>    | Up to 10 seconds  | <b>Title</b>                 | 10-character title generator for each<br>camera, alarm input, and alarm output                            |
| <b>Live Display Rate</b>  | Up to 30 FPS (NTSC) or 25 FPS (PAL) per<br>camera   | <b>Flash Memory</b>          | 64 MB   |
| <b>Playback Rate</b>      | Up to 30 FPS for NTSC, 25 FPS for PAL per<br>camera   | <b>Security</b>              | Multi-level password protection   |
| <b>Ethernet</b>           | 1 RJ-45 connector for internet/intranet<br>connection   | <b>System Recovery</b>       | Auto power on after power loss recovery   |
|                           |   | <b>Power Source</b>          | 90-260V   |
|                           |   | <b>Dimension</b>             | 430(Width)x360(Depth)x110(Height)mm   |
|                           |   | <b>Operating Temperature</b> | 0°C - +40°C   |

## Ordering Information

- eDR880/N: 8 Channel Real-time Digital Video Recorder, NTSC  
eDR880/P: 8 Channel Real-time Digital Video Recorder, PAL  
eDR1680/N: 16 Channel Real-time Digital Video Recorder, NTSC  
eDR1680/P: 16 Channel Real-time Digital Video Recorder, PAL

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\* Design and specifications are subject to change without prior notice.  
\* Based on United States Federal Regulation: It's required to post warning sign if an audio device is used in conjunction with this machine.



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