EverFocus®

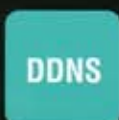# EverFocus EDVR Series
Digital Video Recorders

**EDVR Series DVRs: 4, 9, and 16 channels,
MPEG4 Compression, Internal DVD+RW Burner**

DVD/RW · USB Mouse · USB drive · DDNS · RS485 · NTP · WaterMark

EDVR Series DVRs: 4, 9, and 16 Channel, MPEG4 Compression, Internal DVD+RW Burner

The EDVR Series from EverFocus utilizes the latest MPEG4 compression technology and pentaplex operation for optimal recording performance.

Users can transfer recorded video to DVD with the built-in DVD burner or via USB drive. The EDVR offers up to 2 internal hard drives for your storage needs. In addition, the EDVR series offers free DDNS server with dynamic IP addresses. Available in 4, 9, or 16 channels, the EDVR series from EverFocus is the powerful solution for all your digital recording applications.

Features

- Pentaplex Operation (Live, Recording, Playback, Archiving, Remote Viewing)
- Built-in MPEG4 Codec with Configurable Quality
- Composite and VGA main outputs
- EDVR4D1, EDVR9D1, EDVR16D1: Variable Recording Speeds Up to 120/100 (FPS) for NTSC/PAL
- Audio Recording Capabilities
- Multiple Motion Detection Capabilities for each camera (28x22)
- Support RS485 for PTZ and/or control keyboard
- Built-in real time clock and Auto Time Synchronization with global NTP server through Internet
- Up to Two 3.5" IDE Hard Disks can be added
- Ethernet Interface for Remote Network Viewing and Controlling
- Shuttle/Jog Dial for Picture-by-Picture or Fast/Slow Viewing
- Easy to use front panel keypad, shuttle/jog, IR remote controller, and control keyboard (optional)
- On-Screen Menus Operations with Multi-Language Support
- Real-Time Live Display for all Cameras
- 2 USB 2.0 Interface for Mouse and archiving
- Support external DVD+RW for archiving
- Built-in DVD/RW for video clip exporting
- Water Mark Capabilities restores previous settings in the event of a power outage
- USB2.0 port for video clip exporting, supports USB thumb drive
- Free DDNS server for use with dynamic IP addresses
- System diagnostic feature alert users of HDD or system problems via Email or alarm output

Recording Rate

Recording Rate	NTSC	PAL
EDVR16D1 /	D1 720x480 : 30 FPS	D1 720x576 : 25 FPS
EDVR9D1 /	Half D1 720x240 : 60 FPS	Half D1 720x288 : 50 FPS
EDVR4D1	CIF 360x240 : 120 FPS	CIF 360x288 : 100 FPS

Advantages

## User friendly USB mouse and jog shuttle support for easy operation

The full-size DVR series offers the familiarity of a multiplexer with VCR style control keys, and user friendly step-by-step menu to simplify installation and training process.

Up to 10 times the recording length of comparable M-JPEG DVRs

EverFocus New EDVR MPEG4 series of digital recorders features a propriety MPEG4 compression technology that allows you to store up to 10 times as much video per gigabyte of disk space than with the conventional compression algorithms. At the same time, the MPEG4 compression results in less noise and distortion, delivering high-quality images for archiving, playback and storage.

▶ Comparison

Disk Saving

Everfocus MPEG4 DVR

M-JPEG
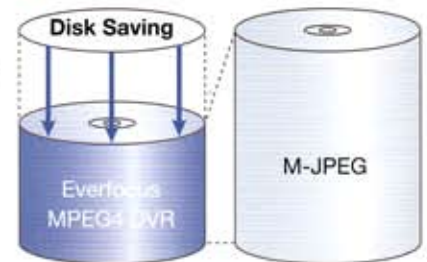
TCP/IP READY

The EDVR series DVR allows the user to remotely monitor your business through a simple TCP/IP connection. The remote viewing software is embedded in the unit and password protected to enable remote monitoring from any secure network connection.

Intuitive, easy-to-learn interfaces

Like all EverFocus digital systems, our digital recorders are designed to simplify and streamline set-up, learning and configuration through simple and easy-to-understand controls and software interfaces.

Built-in DVD-RW

The internal DVD+RW drive allows users to archive video or images to a re-writable DVD disc. Archiving to DVD is a simple and user-friendly process that can be taught to facility managers quickly and easily.

USB2.0 interface

USB2.0 ports allow video and image archiving to USB flash memory drive. Users can also use the USB ports to upgrade the system firmware in the event of future releases.

Remote Control by a PC

Built-in LAN terminal can enable remote control of the EDVR series DVR through a PC with network connection (such as Internet Explorer), without the excess need of a software. With the EDVR, you can search/archive recorded pictures, control PTZ dome camera systems, and download video/audio recordings to your PC. For certain restrictions apply, the EDVR can be password operated to limit user access of DVR function(s).

Remote Search:

Search, playback, and backup recorded images from remote location.

PTZ Control:

Multiple PTZ protocols are supported.

Remote Archive:

Backup files manually or by schedule with the remote central monitoring station.

EDVR Series Functional Layout

Front Panel Design

4 Channels

1	REC	12	SEQ
2	Stop	13	Call
3	Play	14	Menu
4	Pause	15	Shuttle and Jog Dial
5	Search	16	System LED
6	Copy	17	Channel Key (1~4)
7	Enter	18	USB Mouse
8	Display	19	DVD-RW Burner
9	Select	20	USB Slot
10	Mode	21	LCD Panel
11	Zoom	22	Remote Control

9 Channels

1	REC	12	SEQ
2	Stop	13	Call
3	Play	14	Menu
4	Pause	15	Shuttle and Jog Dial
5	Search	16	System LED
6	Copy	17	Channel Key (1~9)
7	Enter	18	USB Mouse
8	Display	19	DVD-RW Burner
9	Select	20	USB Slot
10	Mode	21	LCD Panel
11	Zoom	22	Remote Control

16 Channels

1	REC	12	SEQ
2	Stop	13	Call
3	Play	14	Menu
4	Pause	15	Shuttle and Jog Dial
5	Search	16	System LED
6	Copy	17	Channel Key (1~16)
7	Enter	18	USB Mouse
8	Display	19	DVD-RW Burner
9	Select	20	USB Slot
10	Mode	21	LCD Panel
11	Zoom	22	Remote Control

Back Panel Design

4 Channels

1. Video Input & Output Connectors (Video In & Out 1~4)
2. Remote Control
3. Power Switch
4. Main Power
5. Audio Input Connectors (audio in 1~4)
6. Audio Output Connector
7. Main & Call Monitor
8. LAN Connector
9. RS 485 Connector
10. VGA Connector (Optional)
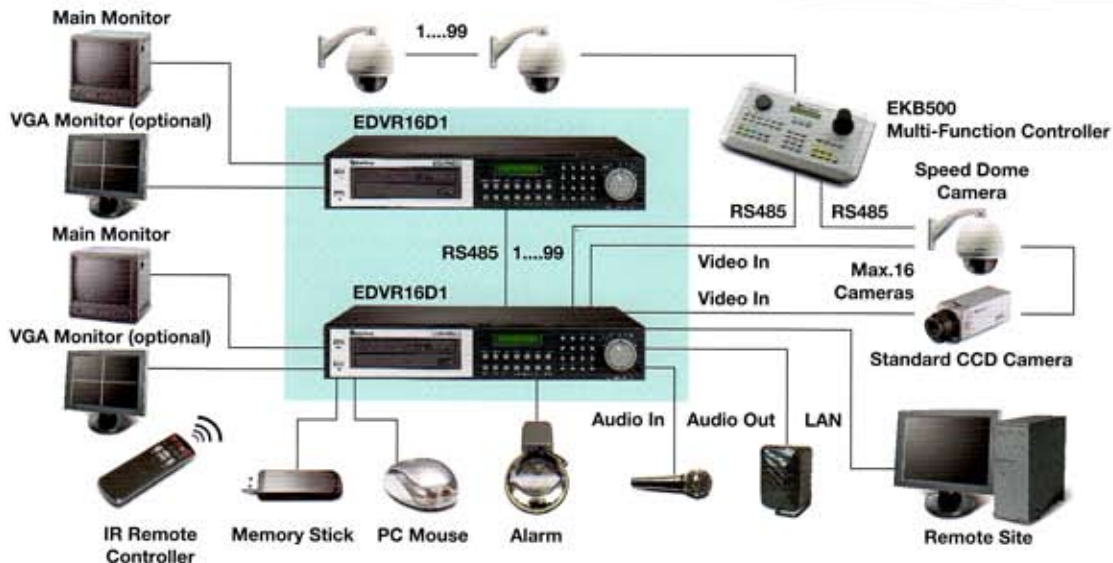11. RS 232 Connector
12. Alarm in and out

9 Channels

1. Video Input & Output Connectors (Video In & Out 1~9)
2. Remote Control
3. Power Switch
4. Main Power
5. Audio Input Connectors (audio in 1~4)
6. Audio Output Connector
7. Main & Call Monitor
8. LAN Connector
9. RS 485 Connector
10. VGA Connector (Optional)
11. RS 232 Connector
12. Alarm in and out

16 Channels

1. Video Input & Output Connectors (Video In & Out 1~16)
2. Remote Control
3. Power Switch
4. Main Power
5. Audio Input Connectors (audio in 1~4)
6. Audio Output Connector
7. Main & Call Monitor
8. LAN Connector
9. RS 485 Connector
10. VGA Connector (Optional)
11. RS 232 Connector
12. Alarm in and out

System Configuration

Main Monitor
VGA Monitor (optional)
EDVR16D1
1....99
EKB500 Multi-Function Controller
RS485
RS485
Speed Dome Camera
Main Monitor
VGA Monitor (optional)
EDVR16D1
RS485
1....99
Video In
Video In
Max.16 Cameras
Standard CCD Camera
Audio In
Audio Out
LAN
IR Remote Controller
Memory Stick
PC Mouse
Alarm
Remote Site

● Standard Product Configurations

4 CH	9 CH	16 CH

EDVR4D1
- 4CH MPEG4 DVR with DVD/RW
- 120/100FPS(CIF)

EDVR9D1
- 9CH MPEG4 DVR with DVD/RW
- 120/100FPS(CIF)

EDVR16D1
- 16CH MPEG4 DVR with DVD/RW
- 120/100FPS(CIF)

● Dimension Diagram

17"

3" 2.8"
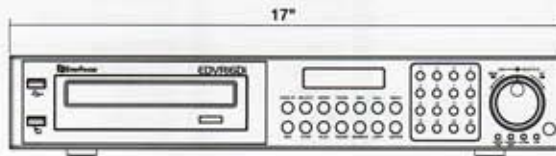
(Unit: inch)

● Optional Components

EKB500

Multi-Function Keyboard Controller
- Controls PTZ cameras, DVRs, and Monitors
- 3D joystick for PTZ control
- LCD Display
- Multi-Protocol Support (Everfocus_enhance protocol; Pelco P/D)
- Jog shuttle for DVR control

Color Surveillance Cameras

EHD350 HQ

1/3" 520TVL High-Resolution Rugged Dome Weatherproof Digital Color Camera
- Excellent high resolution 520TVL
- Revolutionary integrated 10-bit Digital Signal Processor (DSP) delivers excellent picture quality and performance
- Low light sensitivity of 0.5 lux/F=1.2 is achieved by using the advanced 1/3" interline transfer color CCD

EQ350 HQ

1/3" 520TVL High-Resolution Digital Color Camera
- 1/3" color CCD pick up device for more than 380/520 TV lines of horizontal resolution
- Auto line lock with external phase adjustment
- Can be used with C-mount or CS-mount lens for easy back focus adjustment

ECZ230

1/3" 380TVL Standard Resolution Color Weatherproof IR Camera
- IP66 weatherproof rated
- View angle 40 deg-range,IR distance 15meters
- Electronic shutter and AGC allows the camera to be used in environments with various light levels

EQ600

Wide Dynamic High-Res. Color Camera
- High resolution: Over 480 TV Lines/ 1.0lux and low speed shutter up to 32x
- With programmable camera ID up to 12 characters
- Free S/W for remote configuration through RS232 via PC

EPTZ3000

Outerdoor Day/Night PTZ (30x)
- Wide Dynamic makes objects clear in a high illumination background
- Vertical double density interline CCD with a slower shutter and true Day/Night function
- Electronics flip, no mechanical flip is necessary

EQ550

1/3" 530TVL True Day/Night Dynamic noise Reduction Camera
- Excellent Super-high Resolution technology, 530 TV lines of horizontal resolution
- Built-in DNR (Dynamic Noise Reduction) for noise reduction and a 70% saving of disk storage
- The starlight Super-high sensitivity of 0.002 Lux/F=1.2 is achieved by setting SENS-UP Shutter X128

* All photographs and menus are simulated and shown for the purpose of explanation. Actual images may differ. Weights and dimensions are approximate. Specifications are subject to change without notice

EDVR Series DVRs: 4, 9, and 16 Channel, MPEG4 Compression, Internal DVD+RW Burner

● Specifications

Video	
Format	NTSC/PAL
Inputs	16/9/4 camera inputs (BNC), 1Vp-p/75ohm
Loop Through Out	16/9/4 BNC composite video output, 1Vp-p/75ohm
Outputs	Main Monitor: 1 BNC composite video output, 1 VGA output, 1 Vp-p/75ohm
	Call Monitor: 1 BNC composite video output, 1Vp-p/75ohm
Compression	MPEG4
Recording Resolution	Full-D1: 720x480 (NTSC)/ 720x576 (PAL)
	Half-D1: 720x240 (NTSC)/ 720x288 (PAL)
	CIF: 360x240 (NTSC)/ 360x288 (PAL)
Display	Full, 4, 7, 9, 10, 13, 16, PIP (Live only) and 2x2 Zoom for Live and Playback
Live Display Resolution	720x480 (NTSC) or 720x576 (PAL)
Video Pause	Yes
Video Loss Detection	Yes

Alarm	
Inputs	16 alarm inputs
Outputs	1alarm output (1 Normally Open or Normally Closed relay outputs)

Storage	
Hard Disk Storage	up to 2 internal 3.5" IDE hard Disk
External Storage	Provide USB 2.0: for external USB Flash Memory

Recording/Search	
Recording Rate	EDVR4D1; EDVR9D1; EDVR16D1: Up to 120/100 (FPS) for NTSC/PAL
Recording Mode	Normal, Schedule Rec.
	Event recording (Motion, Video Loss, Alarm)
Playback Rate	Up to 60/50 (FPS) for NTSC/PAL

Playback Search	By Date/Time or Event (Motion, Video Loss, Alarm)
Playback	Play, pause, stop, fast forward (x2, x4, x8, x16, x32, x600), step forward, fast backward (x2, x4, x8, x16, x32, x600), step backward
Motion Detection	Multiple configurable detection areas (28x22) & different sensitivity for each camera
Event Log	Yes
User Interface	User friendly OSD menu
Setup	On screen display setup
Timer	Built-in real time clock and Auto Time Synchronization with global NTP server through Internet
Watch Dog Timer	Yes
Title	12-character title generator for each camera

Connectors	
USB	Two USB 2.0 interface device
Ethernet	RJ connectors for network communication
RS-232	9-pin female connector for local communication
RS-485	for PTZ and/or control keyboard
User Input Device	Front panel keypad, Shutter/Jog, Remote Control, Control Keyboard, USB Mouse (Optional)

Power	
Power Source	AC100~240V
Power Consumption	50W

Physical	
Dimension	430(W) x 402.5(L) x 72(H) mm 16.9(W) x 15.8(L) x 2.8(H) inches
Weight	Approximately 6.42kg (14 lbs)

Enviroment Operating	
Temperature	0°C~40°C (32°F~104°F)

® EverFocus Electronics Corp.