

H.264 Full D1 Real-time Digital Video Recorder **No more port-forwarding**

### PROFESSIONAL SERIES (PR-424, PR-824, PR-1648)



**H.264, 4Ch Audio, DDNS, DVD-RW,  
4Ch(120/120@2CIF)  
8Ch(240/240@CIF)/16Ch(480/480@CIF),  
i-Phone Support**

#### Features

- TI HD Davinchi Based Platform w/ Powerful self developed codec
- Real-time Recording speed
- Support 1024x768 display
- Real-time log viewer with snapshot image
- Smart Phone Viewer support
- Gigabit Ethernet
- Snapshot Uploading Function via E-MAIL
- G.M.T Time zone & D.S.T supported
- Remote PTZ control supported
- Two way audio communications
- Various Archiving Devices supported (CD/DVD-RW, USB Flash device, Network)
- Auto Bandwidth Control
- CMS Support

#### Dimensions

(unit:inch)

Top View



15.1"

Back View



14.2"

2.6"

MODEL	PR-424	PR-824	PR-1648
Operating System	LINUX		
Pentaplex Function	Simultaneous Live/Record/Playback/Archive/Network		
Video Compression	H.264 Codec(DSP Based)		
Live Display Speed	120 fps	240 fps	480 fps
Recording Speed	120 @ 2CIF	240 @ CIF	480 @ CIF
Video Input	4CH(BNC)	8CH(BNC)	16CH(BNC)
Video Output	DVI monitor	1 DVI-I (1024x768)	
	Sub monitor	1 Composite(BNC)	
	Spot-out	1 Composite(BNC)	
	Loop-out	None	
Screen Division	Live	1,4,6,8,9	1,4,6,8,9,16
	Playback	1,4,9	1,4,9,16
Audio In/Out	4 Line in (RCA) / 1 Line out (RCA), CODEC:G.711		
Alarm In/Out	4 In/ 1 relay		
Storage	2 HDD + 1 ODD		
Archive	USB Flash Device, CD/DVD-RW & Network		
USB Port	1.5U : 2 Front		
PTZ & Keyboard control	RS-485		
System Control	USB Mouse,Front button,Remote controller&Keyboard controller		
Network	LAN, DHCP, Dynamic IP, DDNS		
Power	12V Adaptor, 5A, 50~60Hz		
Operating Temperature	0 °C ~ 40 °C		
Humidity	10 ~ 90% NC		
Dimension(inch)/Weight(lb)	14.2 x 15.1 x 2.6 (WxHxD)/15 lb		
RemoteSW	CMS support, Web Viewer		
<b>MAIN FEATURES</b>			
<b>LIVE DISPLAY</b>			
OSD	On/Off		
Border Color	Selectable		
Digital Zoom	Up to 3X		
<b>SEARCH</b>			
Calendar Search	Search by time		
Event Search	Search by event		
<b>PLAYBACK</b>			
Playback Speed	Variable Playback(Max.64x)		
Instant playback	Instant playback mode for quick review		
Audio Play	Synchronized with Video		
<b>SYSTEM</b>			
Video Covert	Video will be hidden Live & Playback mode, but it will be recorded		
PTZ	Supported most of PTZ protocol, Preset up to 255		
Motion Area Setting	Adjustable GRID(20X12), 10 Steps Sensitivity Level		
Time Synchronization	Auto Time Sync. By NTP server		
User Authority	Each User Group has different function		
System Reliability	Watch-Dog, Auto-Recovery after power Failure		
Firmware Upgrade	Via USB Flash device and Network		
Configuration Export & Import	Setting configuration copy & paste to other DVR via USB		
S.M.A.R.T. Alarm	Auto-Detect & monitoring the HDD's problem		
<b>RECORD</b>			
Resolution Setting	By each camera for different resolution setting(CIF/2CIF/D1)		
Recording Quality Control	5 Levels (Low / Standard / High / Highest / Super)		
Recording Schedule	By hour, by day, by recording mode, By alarm, By Ch		
Panic Record	Overrides all other recording settings to provide the best quality recording		
Pre-recording	Max. 5 seconds		
Post-recording	Max. 180 seconds		
<b>ARCHIVE</b>			
Archive Device	CD/DVD/USB Flash device		
File Format	AVI file		
Bookmark Archiving	Supported		
Player	Backup player, Window Media Player and HDD PC Viewer		
<b>NETWORK</b>			
Network Support Type	LAN / DHCP / DDNS		
Net Client & Web Server Port	Programmable by User		
E-mail notification	E-mails to specific users to notify events		
System Configuration	Full setup configuration over network		
Bandwidth limit	Limitable the Network Bandwidth by User		
Two-Way Audio	Communication with RemoteSW		
<b>Others</b>			
Watermark	Watermarked Video & Audio for security		
POS	Supported (TBD)		

Made in Korea

## STANDALONE DVR SERIES

**H.264 Real-time Digital Video Recorder**  
**1080p HD Display : HDMI out**  
**Dual Streaming**  
**Auto Bandwidth Control for Client**  
**Universal Plug and Play supported**

**No more need for port-forwarding**  
**Supports PDA Viewer and Smart Phone**

### ENTERPRISE SERIES



**8CH / 16CH, D1@Realtime, DVDRW**  
**HDMI 1080P Display, 2U Rack mountable**

### PREMIUM SERIES



**8CH / 16CH, CIF@Realtime, DVDRW**  
**HDMI 1080P Display, 2U Rack mountable**

### PROFESSIONAL SERIES



**4CH / 8CH / 16CH, CIF@Realtime, DVDRW**  
**DVI, 1.5U Rack mountable**

### ELITE SERIES



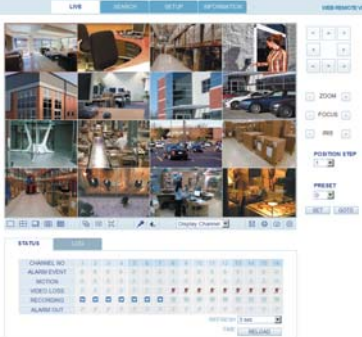
**4CH / 8CH / 16CH, CIF@Realtime**  
**VGA**

## Specification

SERIES	ENTERPRISE				PREMIUM				PRO			ELITE		
Model	EP-8D	EP-16D	PM2-8C	PM2-16C	PR-424	PR-824	PR-1648	EL-412	EL-824	EL-1648				
Operating System	LINUX								LINUX					
Pentaplex Function	Simultaneous Live/Record/Playback/Archive/Network								Simultaneous Live/Record/Playback/Archive/Network					
Video Compression	H.264 Codec								H.264 Codec					
Recording Speed (FPS)	240 @ D1 (720x480)	480 @ D1 (720x480)	240 @ CIF	480 @ CIF	120 @ 2CIF	240 @ CIF	480 @ CIF	120 @ CIF	240 @ CIF	480 @ CIF				
Video Input	8CH(BNC)	16CH(BNC)	8CH(BNC)	16CH(BNC)	4CH(BNC)	8CH(BNC)	16CH(BNC)	4CH(BNC)	8CH(BNC)	16CH(BNC)				
Loop out	8CH(BNC)	16CH(BNC)	8CH(BNC)	16CH(BNC)	N/A	N/A	N/A	N/A	N/A	N/A				
Video Output	HDMI	MAX (1920X1080),1080p Full HD		MAX (1920X1080),1080p Full HD		N/A			N/A					
	VGA monitor	SXGA (1280 X1024) / Composite(BNC) / SVHS		1 VGA (1024X768), 1 Composite(BNC)		1 DVI-I(1024X768), 1 Composite(BNC)			1280x1024	1 VGA (1024X768), 1 Composite				
	Spot-out	2 Analog(BNC)	4 Analog(BNC)	2 Analog(BNC)	4 Analog(BNC)	1 Composite(BNC)			1 Composite(BNC)					
Screen Division	Live	1,4,6,8,9,16	1,4,6,8,9,16	1,4,6,9	1,4,6,8,9,16	1,4	1,4,6,8,9	1,4,6,8,9,16	1,4	1,4,6,8,9	1,4,6,8,9,13,16			
	Playback	1,4,16	1,4,9,16	1,4,9	1,4,16	1,4	1,4,9	1,4,9,16	1,4	1,4,8	1,4,8,16			
Audio In/Out	4 Line in(RCA)/ 1 Line out(RCA), CODEC:G.711				4 Line in(RCA)/ 1 Line out(RCA), CODEC:G.711				4 Line in(RCA)/ 1 Line out(RCA), CODEC:G.711			4 Line in(RCA)/ 1 Line out(RCA), CODEC:G.711		
Alarm In/Out	8 In/ 8 Out		16 In/ 16 Out		8 In/ 8 Out		16 In/ 16 Out		4 In/ 1 relay			4 In/ 1 relay		
Storage	4 HDD's(SATA) + 1 ODD				4 HDD's(SATA) + 1 ODD				2 HDD's(SATA) + 1 ODD			Up to 2 HDD's(SATA)		
External Storage	e-SATA interface, Suproted Optional Storage Bay								N/A			N/A		
Archive	USB Device, CD/DVD-RW & Network								USB Device, CD/DVD-RW & Network			USB Device, Network		
USB Port	3(Front 2, Rear 1)				3(Front 2, Rear 1)				2 (Front)			2(Front 1, Rear 1)		
PTZ & Keyboard control	RS-485								RS-485					
System Control	USB Mouse, Front button, Remote controller & Keyboard controller								USB Mouse, Front button, Remote controller & Keyboard controller			USB Mouse, Remote controller		
Network	LAN, DHCP, Dynamic IP, DDNS,								LAN, DHCP, Dynamic IP, DDNS,					
Power	SMPS, MAX.200W, 100-220VAC, 50-60Hz								12V Adaptor, 5A, 100-220VAC, 50-60Hz					
Operating Temperature	0°C - 40°C								0°C - 40°C					
Humidity	10 - 90% NC								10 - 90% NC					
RemoteSW	CMS support, Web Browser, PDA Viewer, Smart Phone, i-Phone								CMS support, Web Browser, PDA Viewer, Smart Phone, i-Phone					

## STANDALONE DVR GUI

### WEB REMOTE VIEWER



#### Simple & Easy

- Supports all current internet browsers (Internet Explorer, Firefox, Safari, Chrome)
- PTZ control
- Remote Setup
- Remote Playback
- Remote Backup
- Easy connect and use
- Auto bandwidth control

### iPhone REMOTE VIEWER



#### Smart Phone Remote Viewer

- Remote Search/Setup
- Remote PTZ Control

## SETUP

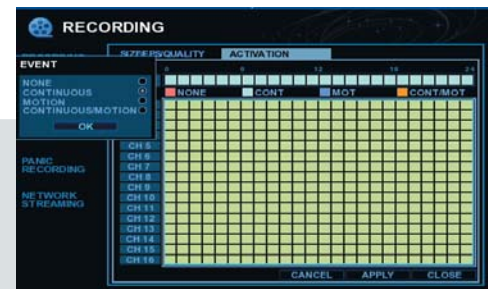


### MAIN SETUP

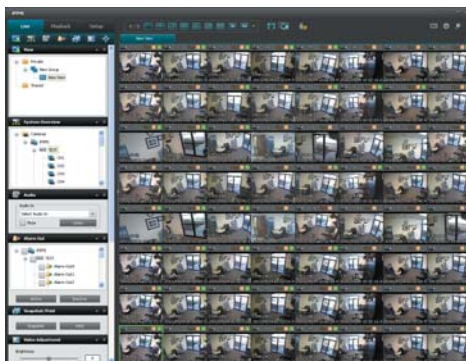
Camera, Display, Sound, System User, Network, Alarm, Disk Watermark, POS, ARCHIVE User Authority, PTZ

### RECORDING SETUP

PANIC RECORDING  
Motion, Continuous, Combo  
By each camera for different resolution setting(CIF/2CIF/D1)



## EZ CMS (Connect Analog DVR + EZ IP Camers + EZ IP NVR)

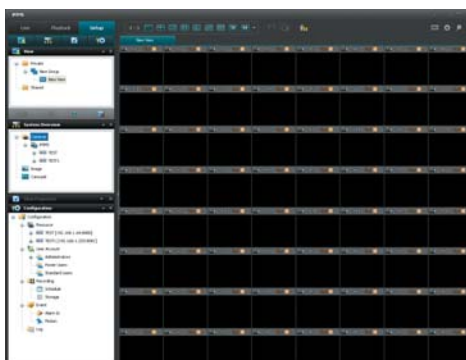
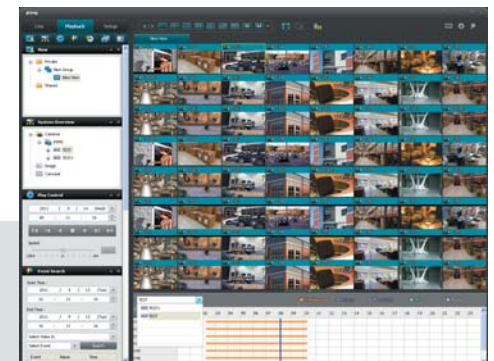


### LIVE

upto 64CH Live Video,  
Multiple Screen  
Live Audio, Backup to Local HDD

### SETUP

Remote Setup  
Multi DVR control with group  
Exporting in AVI and Still image  
Printing Evidence  
Digital Zoom  
Full Screen Viewing  
Using multiple windows  
Sending a channel to a Floating Windows  
Manually Activating Output Audio when playback mode



### PLAYBACK

Timeline browser  
Time navigation  
Audio when playback mode

