# VERSITON
VIDEO TECHNOLOGY

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

# PREMIUM SERIES (PM2-8C, PM2-16C)

**H.264, 4Ch Audio, DDNS, VGA, HDMI, DVD-RW**
**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 480FPS @ CIF
- Support 1920x1080 display (HDMI)
- 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)
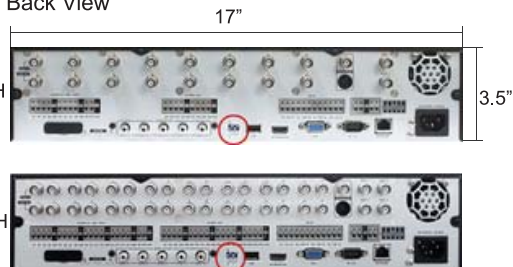- Auto Bandwidth Control
- CMS Support

## Dimensions           (unit:inch)

**Top View**

16.5"

**Back View**

17"

8CH        3.5"

16CH

| MODEL | | PM2-8C | PM2-16C |
|---|---|---|---|
| Operating System | | LINUX | |
| Pentaplex Function | | Simultaneous Live/Record/Playback/Archive/Network | |
| Video Compression | | H.264 Codec(DSP Based) | |
| Live Display Speed | | 240 fps | 480 fps |
| Recording Speed | | 240 @ D1 | 480 @ CIF |
| Video Input | | 8CH(BNC) | 16CH(BNC) |
| Video Output | HDMI | MAX (1920X1080) | |
| | VGA monitor | 1 VGA (1024 X768) | |
| | Sub monitor | 1 Composite(BNC) / 1 SVHS | |
| | Spot-out | 2 Analog(BNC) | 4 Analog(BNC) |
| | Loop out | 8CH(BNC) | 16CH(BNC) |
| Screen Division | Live | 1,4,6,9 | 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 | | 8 In/ 8 Out | 16 In/ 16 Out |
| Storage | | up to 4 HDD's(SATA)+1 ODD,Support External Storage(Option) | |
| Archive | | USB Flash Device, CD/DVD-RW & Network | |
| USB Port | | 2 Front + 1 Rear | |
| PTZ & Keyboard control | | RS-485 | |
| UTC | | BBV, COAXITRON (Option Board) | |
| System Control | | USB Mouse,Front button,Remote controller&Keyboard controller | |
| Network | | LAN, DHCP, Dynamic IP, DDNS | |
| Power | | SMPS, MAX.200W, 100~220VAC, 50~60Hz | |
| Operating Temperature | | 0 ℃ ~ 40 ℃ | |
| Humidity | | 10 ~ 90% NC | |
| Dimentions(inch)/Weight(lb) | | 17 x 16.5 x 3.5(WxHxD)/11.33 lb | |
| RemoteSW | | CMS/RA support, Web Browser, PDA Viewer, Smart Phone | |
| **MAIN FEATURES** | | | |
| **LIVE DISPLAY** | | | |
| OSD | | On/Off | |
| Border Color | | Selectable | |
| Digital Zoom | | up to 4X | |
| **SEARCH** | | | |
| Calendar Search | | Search by time | |
| Event Search | | Search by event | |
| Panorama Search | | Frame by Frame / Multi-hour | |
| **PLAYBACK** | | | |
| Playback Speed | | Variable Playback(Max.64x) | |
| Instant playback | | Instant playback mode for quick review | |
| Audio Play | | Synchronized with Video | |
| **SYSTEM** | | | |
| 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 | |
| **RECORD** | | | |
| Resolution Setting | | By each camera for different resolution setting(CIF/2CIF/D1) | |
| Recording Quality Control | | 4 Levels (Low/Standard/High/Highest) | |
| 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 | |
| **ARCHIVE** | | | |
| Archive Device | | CD/DVD/USB Flash device | |
| File Format | | AVI file | |
| Bookmark Archiving | | Supported | |
| Player | | Backup player, Window Media Player and HDD PC Viewer | |
| **NETWORK** | | | |
| 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 Network Bandwidth by User | |
| Two-Way Audio | | Communication with RemoteSW | |
| **Others** | | | |
| Watermark | | Watermarked Video & Audio for security | |
| Video Analytics | | H/W option | |
| POS | | Supported (TBD) | |

Made in Korea

**VERSITON** VIDEO TECHNOLOGY

## 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 | Simutaneous Live/Record/Playback/Archive/Network | | | | Simutaneous 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 | | |
| Video Output — 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 | |
| Video Output — 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 |
| Screen Division — 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, Supproted 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 Exploer, 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**
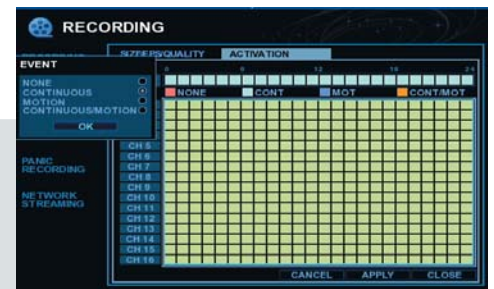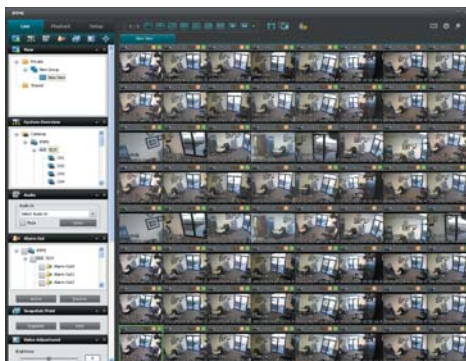 - Remote Search/Setup
 - Remote PTZ Control

### 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)

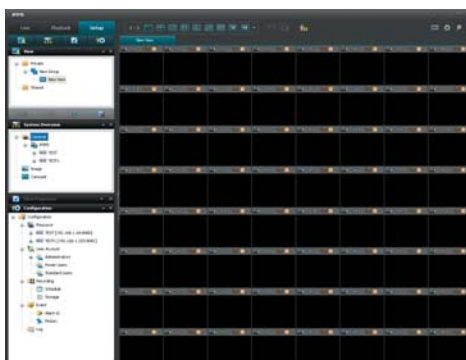### EZ CMS (Connect Analog DVR + EZ IP Camers + EZ IP NVR)

**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 Avidence
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