# 960H DVR (Premium)

## HE-4100/4200 Series User Friendly Standard & Premium Grade DVR

#### • ezP2P™ Cloud Service without any complicated network setting

- ezLink<sup>™</sup> for Instant Live Monitoring with Mac Address Input
- 2 x Typical **PUSH Functions** 
  - · PUSH Video Call to iPhone/iPad & Android Phone
- PUSH Network Connection under Sensor Event
- **POS Function** up to 4 sets of POS Devices
- Startup Wizard for Easy Configuration
- Remote Monitoring by Remote S/W(CMS) & Smart Phone
- Talk-Back Function for 2-way communication with Smart Phone





960H

Compression Algorithm         Vides         Finder H 264, Audio: : H 264, Audio: : ADPCM         S x SATA HDD (x x SATA HDD (x x SATA HDD (x x SATA HDD (x x SATA HDD (x x SATA HDD (x x SATA HDD (x x X X HA HD (x X X Y HA HD (x X X HA HD (x X X HA HD (x X X HA	MODEL		HE-4104CX (4 Ch)	HE-4108CX (8 Ch)	HE-4216DX (16 Ch)
Max. Houb (x SAN A H	Compression Algorithm			Video : H.264, Audio : ADPCM	
Input         4 Ch         8 Ch         16 Ch           Video         Buil-In         TTSC/PAL Selectable         TTSC/PAL Selectable           Video Mode         TTSC/PAL Selectable         404/00 fps         240/00 fps         404/00 fps           Screen Modes for Live Display         1 & 4 CA         1, 4 & 9         1, 4 & 9         1, 4 & 9           Video-Out         Monitor         (or Composite & Spoil)         (or Composite & Spoil)         (or Composite & Spoil)           Recording Speed         7205/24/0288(CCIP)         120/100 fps         24/0200 fps         480/400 fps           Recording Resolution         7205/24/0288(SCIP)         120/100 fps         24/0200 fps         480/400 fps           Recording Resolution         7205/24/0288(SCIP)         120/100 fps         24/0200 fps         480/400 fps           Recording Resolution         T20/100 fps         24/0200 fps         480/400 fps         480/400 fps           Recording Resolution         T20/100 fps         24/0200 fps         480/400 fps         480/400 fps           Recording Resolution         T20/100 fps         240/200 fps         480/400 fps         480/400 fps           Recording Resolution         T20/100 fps         240/200 fps         480/400 fps         480/400 fps           Recording Resolu	Max. HDD Bay		4 x SATA HDD (2 x SATA HDD & 1 x DVD)		
Under Liop Digits Viceo-Out Live Display (NTSC/ PAL) Secen Modes for Live Display Account Market Marke	Operating System			Embedded Linux	
Loop-Out         Built-Instruction           Uve Display (NTSC/PAL)         120/100 fps         420/200 fps         430/400 fps           Screen Modes for Live Display         18.4         1,4.8.9         1,4.9.8.16         100/10 fps         100/10 fps         100/10 fps         100/10 fps         420/200 fps         430/400 fps <td>Video</td> <td></td> <td>4 Ch</td> <td></td> <td>16 Ch</td>	Video		4 Ch		16 Ch
Live Display (NTSC/ PAL)         120100 fps         240/200 fps         480/400 fps           Screen Modes for Live Display         1 & & 4         1, 4 & 8 0         1, 4, 0 & 8 16           Screen Modes for Live Display         Monitor         VCA & HOMI & Spot         VCA & HOMI & Spot           Resolution         HDM: 800x600, 1024x768, 1280x1024, 1920x1080 (Selectable)         352240/288(2CF)         120100 fps         240/200 fps         460/400 fps           Screen Modes for Live Display         720x440/288(2CF)         120100 fps         240/200 fps         460/400 fps           Recording Resolution         720x440/288(2CF)         120100 fps         240/200 fps         460/400 fps           Recording Resolution         T20x440/276(PCH)         120100 fps         240/200 fps         460/400 fps           Recording Modes         Fee Spat Aam Recording, Energency Recording, Out; Backup         1750; 352/40, 720x49, 720x49, 960x480 rcf, 460/15         160/45           Recording Modes         Ch & Resolution         1, 4, 8 & 16, 4; 32         140/40 fps         140/40 fps           Adam Input / Output         Ch & Resolution         1, 4, 8 & 16, 4; 32         140/40         16 Ch / 1 Ch           Adam Input / Relay Output         Ch & Resolution         1, 4, 8 & 16, 4; 54         16 Ch / 1 Ch         16 Ch / 1 Ch           Adam Input / Re	Loop-Out				
Screen Modes for Live Displuy     18.4 ' 1,4.9 ' 1,					
Monitor         VGA & HDMI & Spot (or Composite & Spot)         VGA & HDMI & Spot (or Composite & Spot)           Recording Speed (NTSCIPAL)         720x40288(CLF)         120100 fps         240200 fps         480400 fps           Recording Resolution         720x40288(SFR(GH)         120100 fps         240200 fps         480400 fps           Recording Resolution         720x40288(SFR(GH)         120100 fps         240200 fps         480400 fps           Recording Resolution         580x480576(GH)         120100 fps         240200 fps         480400 fps           Recording Resolution         580x480576(GH)         120100 fps         240200 fps         480400 fps           Recording Modes         Speed         ITSC : 352x240, 720x240, 950x480 SPAL : 352x288, 720x576, 950x576         20x8876           Recording Modes         Speed         ITSC : 352x240, 720x40, 850x480, SFR(GH)         20x88, 720x576, 950x576           Audio Input / Output         Tuncis         ItsCh / 1 Ch         16 Ch / 1 Ch         16 Ch / 1 Ch           Audio Input / Output         Tuncis         ItsR / 1 Ch / 1 Ch         16 Ch / 1 Ch         16 Ch / 1 Ch           PI7/Z Control (RS-485)         Its Ch / 2 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 1 Ch           Its Mareinscreen					
Video-Out         Monitor         (or VGA & FIDMI & Composite \triangle Composite \t	Screen Modes for Live Display				
3522-40/288(C)F)         120/100 (ps         240/200 (ps         460/400 (ps           Recording Speed         720x240/288(C)F)         120/100 (ps         240/200 (ps         480/400 (ps           Recording Resolution         T20x480/376(01)         120/100 (ps         240/200 (ps         480/400 (ps           Recording Modes         F0         240/200 (ps         480/400 (ps         480/400 (ps           Recording Modes         F0         240/200 (ps         480/400 (ps         480/400 (ps           Recording Modes         F0         240/200 (ps         480/400 (ps         480/400 (ps           Playback & Search         Speed         Continuous, Scheduled, Sensor-Activated & Motion Detection Recording, 00uck Backup           Playback & Search         Speed         x1, x2, x4, x8, x16, x32         Contal (ps + 1, x2, x4, x8, x16, x32           Adia Input / Output         Contal (not inscreen by Mouse         F0/1 Ch         16 Ch / 1 Ch           Admin put / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           P/T/Z Control (RS-485)         Virtual Joy-Sitck Control on screen by Mouse         Pair/11t/20om/Focus/infs by Keyboard           Cut / U Control (RS-485)         1) Dual-Stream (Local Recording & Network Transmission)         2) Network Bandwidt Control (25 Kbps - 1000 Mbps)         2) Network Bandwidt Control (25 Kbps - 10	Video-Out	Monitor	(or VGA & HDMI & Composite) (or Composite & Spot)		
Recording Speed (NTSC/PAL)         720x240/288/2CiF)         120/100 fps         240/200 fps         480/400 fps           NTSC/PAL)         360x480/376(90H)         120/100 fps         240/200 fps         480/400 fps           Recording Resolution         560x480/376(90H)         120/100 fps         240/200 fps         480/400 fps           Recording Resolution         Speed         200/200 fps         480/400 fps         480/400 fps           Recording Resolution         Speed         T. x2, x4, 84, 81, 64, x32         Values Recording, Calcis Recording, Calcis Record           Playback & Search         Ch & Resolution         1, 4, 9, 41 6C, h1 260/00         T. Sc2, x48, 87, 46, x32           Playback & Search         Ch & Resolution         1, 4, 9, 41 6C, h1 260/00         T. Sc2, x48, 47, 46, x32           Playback & Search         Ch & Resolution         1, 4, 64, 71 Ch         16 Ch / 1 Ch           Audio Input / Output         4 Ch / 1 Ch         16 Ch / 4 Ch         16 Ch / 4 Ch           P/T/Z Control (RS-489)         Virtual Joy-Stick Control on screen by Mouse         Encition           P/T/Z Control (RS-489)         Search         Search         16 Ch / 1 Ch           Search         Virtual Joy-Stick Control on screen by Mouse         Search           P/T/Z Control (RS-489)         Search         16 Ch / 2 Ch		Resolution			
(NTSCIPAL)         720x480/S76(01)         120/100 fps         240/200 fps         480/400 fps           Recording Resolution         NTSC: 352x240, 720x240, 740x60, 720x240, 740x60, 720x240, 740x60, 720x240, 740x60, 740x74, 740, 750x60, 740x60, 740, 720x96, 740, 720x96, 740, 720x96, 7	<b>.</b>	352x240/288(CIF)	120/100 fps	240/200 fps	480/400 fps
960x480/576(960H)         120/100 fps         240/200 fps         480/400 fps           Recording Resolution         NTSC : 352/240, 720x480, 960x480 PAL : 352x288, 720x576, 960x576         960x480 PAL : 352x288, 720x576, 960x576           Recording Modes         Speed         Cn strainuous, Scheduled, Sensor-Activated & Motion Detection Recording, Quick Backup           Playback & Search         Ch & Resolution         1, 4, 2, 44, x4, x16, x32           Audio Input / Output         Ch & Resolution         1, 4, 9, 8, 16 Ch at 960H           Audio Input / Output         4 Ch / 1 Ch         8 Ch / 4 Ch           Alam Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch           Alam Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch           PAIT/IIZ Control (RS-485)         Fixed IP, DHCP & DDNS           I Dual-Stream (Local Recording & Network Franceir (RJ45)         1) Dual-Stream (Local Recording & Network Transmission)           2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)           4) Time Synchronization by MTP Server ("pool.ntp.org")         6) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control           6) P2P Cloud Service (Auto Port Forwarding)         CM & & MMS (SmartViewerPro or Mobile ViewerPro)           Backup Device         External         Local Backup by USB ODD, Network Backup by OKS. File Upl		. ,	120/100 fps	240/200 fps	480/400 fps
Recording Resolution         NTSC : 352:x40, 720x40,		. ,			
Continuous, Scheduled, Sensor-Activated & Motion Detection Recording           Speed         Pre & Post Nam Recording, Emergency Recording, Ouick Backup           Playback & Search         Ch & Resolution         1, 4, 9, 8, 16, A3           Function         Intelli-Search by Time Bar, Calendar (Date & Time) and Event Search           Audio Input / Output         4 Ch / 1 Ch         16 Ch / 1 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch           PT/Z Control (RS-485)         4 Ch / 1 Ch         8 Ch / 4 Ch           PT/Z Control (RS-485)         -         10 Dual-Stream (Local Recording & Network Transmission)           LAN         -         1) Dual-Stream (Local Recording & Network Transmission)           2) Network Function         1) Dual-Stream (Local Recording & Network Transmission)           3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         -           3) Live Monitoring, Remote Playback & System Reboot by IE, Remote PTZ Control         6           6) P2P Cloud Service (Auto Pont Forwarding)         -         -           Backup Device         -         -         -           Verb (IE)         -         -         -           System Recovery after Power Failure         -         -         -           Advanced Functions         -         <		960x480/576(960H)		-	
Recording Modes         Pre & Post Alarm Recording, Emergency Recording, Quick Backup           Playback & Search         Ch & Resolution         1, 4, 9, 8, 16, x32           Audio Input / Output         Intelli-Search by Time Ban, Calendar (Date & Time) and Event Search           Audio Input / Output         4 Ch / 1 Ch         8 Ch / 4 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch           PIT/IZ Control (RS-485)         9 Ch / 4 Ch         16 Ch / 4 Ch           PIT/IZ Control (RS-485)         10 Dual-Stream (Local Recording & Network Transmission)         -           LAN         -         1) Dual-Stream (Local Recording & Network Transmission)         -           2) Network Function         1) Dual-Stream (Local Recording & Network Transmission)         -         -           2) Network Function         1) Dual-Stream (Local Recording & Network Transmission)         -         -           3) Network Function         Veh (IE)         -         -         -           8         Software         Ch / 4 Ch         -         -         -           9         Piter Such Transmission         -         -         -         -           8         Software         Ch Cal Backup Polyback an	Recording Resolution				
Speed         x1,x2,x4,x16,x3           Playback & Search         Ch & Resolution         1, 4, 9, 4, 8, 16, A3           Audio Input / Output         Audio Input / Output         4 Ch / 1 Ch         16 Ch / 1 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 1 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 1 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PT/IZ Control (RS-485)         Yet A Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PT/IZ Control (RS-485)         Yet A Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PVT/Z Control (RS-485)         Yet A Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PVT/Z Control (RS-485)         Yet A Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           Vet X Yet A Xet	-				
Playback & Search         Ch & Resolution         I.4, 9, 8, 16 Ch at 960H           Audio Input / Output         Intelli-Search by Time Bar, Calendar (Date & Time) an Event Search           Audio Input / Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 1 Ch           Alarm Input / Relay Output         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PT/IZ Control (RS-485)         4 Ch / 1 Ch         8 Ch / 4 Ch         16 Ch / 4 Ch           PT/IZ Control (RS-485)         Pan/Titl/Zoom/Focus/Iris by Keyboard         16 Ch / 4 Ch           PAT         Pan/Titl/Zoom/Focus/Iris by Keyboard         16 Ch / 4 Ch           LAN         Time Sime Chocal Recording & Network Transmission)         20 Network Bandwidth Control (25 Kbps - 1000 Mbps)           3 Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4 Time Synchronization by NTP Server (pool.ntp.org)           3 Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4 Time Synchronization by NTP Server (pool.ntp.org)           8 Remote Management         Software         CMS & MMS (SmartViewerPro or Mobile/ViewerPro)           9 Local Backup Device         Internal         Local Backup by USB OD, Network Backup by CMS, File Upload to FTP Server           System Recovery after Power         1 Firmware Upgrade by USB & CMS over Network         3 Ouck Setup to designate Recording Penid           Advanced					
Audio Input / Output       Intelli-Search by Time Bar, Calendar (Date & Time) and Event Search         Audio Input / Qlaput       4 Ch / 1 Ch       6 Ch / 4 Ch         Alarm Input / Relay Output       4 Ch / 1 Ch       8 Ch / 4 Ch         P/T/Z Control (RS-485)       4 Ch / 1 Ch       8 Ch / 4 Ch         P/T/Z Control (RS-485)       4 Ch / 1 Ch       8 Ch / 4 Ch         Price P. Duble       4 Ch / 1 Ch       8 Ch / 4 Ch         Price P. Duble       4 Ch / 1 Ch       8 Ch / 4 Ch         Price P. Duble       9 Ch / 4 Ch       1 Ch         Price P. Duble       9 Ch / 4 Ch       1 Ch         Price P. Duble       9 Ch / 4 Ch       1 Ch         Price P. Duble       9 Ch / 4 Ch       1 Ch         Price P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble       9 Ch / 4 Ch       1 Ch         Price Struct P. Duble </td <td></td> <td></td> <td colspan="3"></td>					
Audio Input / Output       4 Ch / 1 Ch       16 Ch / 1 Ch         Alarm Input / Relay Output       4 Ch / 1 Ch       8 Ch / 4 Ch       16 Ch / 4 Ch         P/T/Z Control (RS-485)       4 Ch / 1 Ch       8 Ch / 4 Ch       16 Ch / 4 Ch         P/T/Z Control (RS-485)       9 Ch / 2 Ch       9 Ch / 4 Ch       16 Ch / 4 Ch         IAN       Par/Tilt/Zoom/Focus/Iris by Keyboard       Gigabit Ethemet (RJ45)         Fixed P. PHCP & DDNS       10 Ual-Stream (Local Recording & Network Transmission)       2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         Software       1) Dual-Stream (Local Recording & Network Transmission)       2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         Software       1) Dual-Stream (Local Recording & Network Transmission)       2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         Software       1) Dual-Stream (Local Recording & Network Transmission)       2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         Software       1) Sure Monitoring, Remote Playback and File Backup (Triplex-on-Remote)       4) Time Synchronization by NTP Server ('pool.ntp.org')         Software       Software       CMS & MMS (SmartViewerPro or MobileViewerPro)         Remote Management       Software       CMS & MMS (SmartViewerPro or MobileViewerPro)         Backup Device       External       Local Backup by USB ODD, Network Backup to MobileViewerPro)         System Recov	Playback & Search				
Alarm Input / Relay Output     4 Ch / 1 Ch     8 Ch / 4 Ch     16 Ch / 4 Ch       P/T/Z Control (RS-485)     Gitabit Ethernet (RJ45)     Pan/Titl/Zoom/Focus/Inis by Keyboard       LAN     International Control (RS-485)     Second Recording & Network Transmission)       Network Function     1) Dual-Stream (Local Recording & Network Transmission)     Second Recording & Network Transmission)       2) Network Bandwidth Control (25 Kpps ~ 1000 Mbps)     3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)       4) Time Synchronization by NTP Server ("pool.ntp.org")     5) Remote & E-Mail Notification, Remote System Rebot by IE, Remote PTZ Control       6) P2P Cloud Service (Auto Port forwarding)     Second Recording & System Configuration       Backup Device     Software     CMS & MMS (SmartViewerPro or Mobile/ViewerPro)       Backup Device     Internat     Live Monitoring, Playback & System Configuration       Backup Device     Internat     Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server       System Recovery after Pwert Failure     Advanced Functions     1) Firmware Uggrade by USB CMS over Network       3) Cluck Setup to designate Recording Period     3) Cluck Setup to designate Recording Period       4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)     5) Warning Alarm for System Over-Temperature       6) Heip Message for easy setup & Multi-Language support     7) Digital Zoom for both Live & VOD mode       POS     <		Function	,		
PrT/Z Control (RS-485) Prt/Z Control (RS-485					
P1/12 Control (RS-485)       Gigabit Ethernet (RJ45)         LAN       Gigabit Ethernet (RJ45)         Network Function       1) Dual-Stream (Local Recording & Network Transmission)	Alarm Input / Relay Output				
LAN       Gigabit Ethernet (R, 45) Fixed IP, DHCP & DDNS         Network Function       1) Dual-Stream (Local Recording & Network Transmission)       2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)       3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4) Time Synchronization by NTP Server (*pool.ntp.org)*       5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)       6) P2P Cloud Service (Auto Port forwarding)         Backup Device       Software       CMS & MMS (Smart/VewerPro or MobileViewerPro)         Backup Device       Internal       CLocal Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Pwice       1) Firmware Upgrade by USB ACMS over Network       2) Inpriva & Export of Setting Yealue, Water-Mark, AVI File Backup         Advanced Functions       1) Firmware Upgrade by USB ACMS over Network       2) Rubrit & Export of Setting Yealuage Support         6) Help Message for easy setup & Multi-Language support       3) Quick Setup to designate Recording Period       3) Hole Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode       1) Help Message for easy setup & Multi-Language support       3) Digital Zoom for both Live & VOD mode         POS       =SATA       Support(Extension of local storage)       System Geration	P/T/Z Control (RS-485)				
LAN       Fixed IP, DHCP & DDNS         Fixed IP, DHCP & DDNS         Network Function         1       Dual-Stream (Local Recording & Network Transmission)         2       Network Bandwith Control (25 Kbps - 1000 Mbps)         3       Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4       Time Synchronization by NTP Server ("pool.ntp.org")         5       Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6       P2P Cloud Service (Auto Port forwarding)         8       Web (IE)       CMS & MMS (SmartViewerPro or MobileViewerPro)         Backup Device       Internal       DVD Burner (Option)         System Recovery after Power Failure       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Power Failure       Auto-Reboot and Journaling File System         4       100 System Over Network       2) Import & Export of Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period       4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, US Period)         5) Warming Alam for System Over-Temperature       3) Quick Setup to designate Recording Period         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for both Live & VOD mode         FOS       System Operation					
Network Function       1) Dual-Stream (Local Recording & Network Transmission)         2) Network Bandwidth Control (25 Kbps - 1000 Mbps)         3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4) Time Synchronization by NTP Server ("pool.ntp.org")         5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)         Remote Management       Software         Web (IE)       Live Monitoring, Playback & System Configuration         Internal       DVD Burner (Option)         External       Local Backup DVD Network Backup by CMS, File Uploat to FTP Server         System Recovery after Power       1) Firmware Upgrade by USB ODN, Network Backup by CMS, File Uploat to FTP Server         3) Quick Setup to designate Recording Period       1) Firmware Upgrade by USB ACMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Use & Period)       5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for bot Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Dat on Live & Playback         e-SATA       Support(Extension of Iocal storage)         System Operation       Text-in Based	LAN		<b>o</b> ( )		
Network Function       2) Network Bandwidth Control (25 Kbps ~ 1000 Mbps)         3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4) Time Synchronization by NTP Server ("pool.ntp.org")         5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)         Web (IE)       Live Monitoring, Playback and File Backup TO or MobileViewerPro         Backup Device       Internal         External       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Power       Failure         Advanced Functions       1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Use Allowaltor       6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode       Text-in Based (RS222, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage         System Operation       Text-in Based (RS222, TCP/IP Network) / Display POS Data on Live & Playback         System Operation       Text-in Based (RS222, TCP/IP Network) / Displa	Network Function				
Network Function       3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)         4) Time Synchronization by NTP Server ("pool.ntp.org")         5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)         8       6         Backup Device       Xethemal         1       Internal         Backup Device       Internal         External       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Pwer       Fairware Upgrade by USB & CMS over Network         2) Import & Expend 5       Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)       5) Warning Alarm for System Over-Temperature, Used Period)         5) Warning Alarm for System Over-Temperature       6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode       Tex-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       Front Button, IR Remote Controller, USB Mouse, Keyoard (Option)         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperatur					
Network Function       4) Time Synchronization by NTP Server ("pool.ntp.org")         5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)         8         Web (IE)         Internal         Backup Device         Internal         External         Ucoal Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Power Failure         1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode         POS         e-SATA         System Operation         Power         System Operation         Power         Query Tot Soluton, II Remote Controller, USB Mouse, Keyboard (Option)         Power         0       12V x 5A D/C         12V x 7A D/C         0       12V x 5A D/C         12V x 7A D/C         0       12V x 5A D/C<					
S) Remote & E-Mail Notification, Remote System Rebot by IE, Remote PTZ Control         6) P2P Cloud Service (Auto Port forwarding)         6) P2P Cloud Service (Auto Port forwarding)         Web (IE)       CMS & MMS (SmartViewerPro or MobileViewerPro)         Backup Device       Internal       DVD Burner (Option)         System Recovery after Power Failure       CMS & CMS over Network Backup by CMS, File Upload to FTP Server         System Recovery after Power Failure       1) Firmware Upgrade by USB CODD, Network Backup by CMS, File Upload to FTP Server         Advanced Functions       1) Firmware Upgrade by USB & CMS over Network       2) Import & Export of Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period       3) Quick Setup to designate Recording Period       3) Quick Setup to designate Recording Period         Advanced Functions       4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)       5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Dat on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       12V x 7A D/C         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       G60 x 380 x 66 (mm)       <			, , , , ,		
6) P2P Cloud Service (Auto Port forwarding)         Remote Management       Software         Web (IE)       Live Monitoring, Playback & System Configuration         Backup Device       Internal         External       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         Auto-Reboot and Journaling File System       1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup       3) Quick Setup to designate Recording Period         Advanced Functions       4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature       6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       12V x 5A D/C       12V x 7A D/C         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       360 x 380 x 66 (mm)       420 x 428 x 88 (mm)					
Software         Software         CMS & MMS (SmartViewerPro or MobileViewerPro)           Web (IE)         Live Monitoring, Playback & System Configuration           Backup Device         Internal         DVD Burner (Option)           External         Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server           System Recovery after Power Failure         Auto-Reboot and Journaling File System           Advanced Functions         1) Firmware Upgrade by USB & CMS over Network           2) Import & Export of Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period           4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature           6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode           POS         Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback           e-SATA         Support(Extension of local storage)           System Operation         Front Button, IR Remote Controller, USB Mouse, Keybard (Option)           Power         12V x 5A D/C         12V x 7A D/C           Operating Temperature and Humidity         Ga60 x 380 x 66 (mm)         420 x 428 x 88 (mm)					
Remote Management         Web (IE)         Live Monitoring, Playback & System Configuration           Backup Device         Internal         DVD Burner (Option)           System Recovery after Power Failure         Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server           Advanced Functions         1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup           Advanced Functions         1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup           3) Quick Setup to designate Recording Period         3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)           5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode           POS         E-SATA         Support(Extension of local storage)         Vertion)           System Operation         Front Button, IR Remote Controller, USB Mouse, Koard (Option)           Power         12V x 5A D/C         12V x 7A D/C           Operating Temperature and Humidity         Geno 5-40 °C / 20-90% RH         420 x 428 x 88 (mm)		Software			
Backup Device       Internal       DVD Burner (Option)         External       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Power Failure       Auto-Reboot and Journaling File System         Advanced Functions       1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)       5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Dat on Live & Playback         e-SATA       Text-in Based (RS232, TCP/IP Network) / Display POS Dat on Live & Playback         System Operation       Text-in Based (RS232, TCP/IP Network) / Display POS Dat on Live & Playback         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       5~40 °C / 20-90% RH       420 x 428 x 88 (mm)					
Backup Device       External       Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server         System Recovery after Power Failure       Auto-Reboot and Journaling File System         Advanced Functions       1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)       3) Quick Setup to designate Recording Period         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         Power       0       12V x 5A D/C       12V x 7A D/C         0 perating Temperature and Humidity       5-40 °C / 20-90% RH       12V x 428 x 88 (mm)		( )			
System Recovery after Power Failure       Auto-Reboot and Journaling File System         Advanced Functions       1) Firmware Upgrade by USB & CMS over Network         2) Import & Export of Setting Value, Water-Mark, AVI File Backup         3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode         POS         e-SATA         System Operation         Power         Operating Temperature and Humidity         Power         12V x 5A D/C         12V x 7A D/C         Operating Temperature and Humidity         5.40 °C / 20-90% RH	Backup Device				
Advanced Functions2) Import & Export of Setting Value, Water-Mark, AVI File Backup 3) Quick Setup to designate Recording Period 4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period) 5) Warning Alarm for System Over-Temperature 6) Help Message for easy setup & Multi-Language support 7) Digital Zoom for both Live & VOD modePOSText-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback e-SATASystem OperationText-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback 0 (Option)Power12V x 5A D/C12V x 7A D/COperating Temperature and Humidity5-40 °C / 20~90% RHDimension (WxDxH)360 x 380 x 66 (mm)420 x 428 x 88 (mm)	System Recovery after Power Failure		Auto-Reboot and Journaling File System		
Advanced Functions       3) Quick Setup to designate Recording Period         4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode         POS         e-SATA         System Operation         Power         Operating Temperature and Humidity         Dimension (WxDxH)         State					
Advanced Functions       4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)         5) Warning Alarm for System Over-Temperature       5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support       7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       5~40 °C / 20~90% RH       420 x 428 x 88 (mm)			2) Import & Export of Setting Value, Water-Mark, AVI File Backup		
5) Warning Alarm for System Over-Temperature         6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode         POS         e-SATA         System Operation         Power         Operating Temperature and Humidity         Dimension (WxDxH)         Multi-Language support         Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA         Support(Extension of local storage)         System Operation         Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)         Power         12V x 5A D/C         12V x 7A D/C         Operating Temperature and Humidity         5~40 °C / 20~90% RH         Dimension (WxDxH)			3) Quick Setup to designate Recording Period		
6) Help Message for easy setup & Multi-Language support         7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       5~40 °C / 20~90% RH       120 x 428 x 88 (mm)			4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)		
7) Digital Zoom for both Live & VOD mode         POS       Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback         e-SATA       Support(Extension of local storage)         System Operation       Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)         Power       12V x 5A D/C       12V x 7A D/C         Operating Temperature and Humidity       5~40 °C / 20~90% RH       120 x 428 x 88 (mm)			5) Warning Alarm for System Over-Temperature		
POS     Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback       e-SATA     Support(Extension of local storage)       System Operation     Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)       Power     12V x 5A D/C     12V x 7A D/C       Operating Temperature and Humidity     5~40 °C / 20~90% RH       Dimension (WxDxH)     360 x 380 x 66 (mm)     420 x 428 x 88 (mm)			6) Help Message for easy setup & Multi-Language support		
e-SATA     Support(Extension of local storage)       System Operation     Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)       Power     12V x 5A D/C     12V x 7A D/C       Operating Temperature and Humidity     5~40 °C / 20~90% RH     120 x 428 x 88 (mm)       Dimension (WxDxH)     360 x 380 x 66 (mm)     420 x 428 x 88 (mm)			7) Digital Zoom for both Live & VOD mode		
System Operation         Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)           Power         12V x 5A D/C         12V x 7A D/C           Operating Temperature and Humidity         5~40 °C / 20~90% RH         12V x 428 x 88 (mm)           Dimension (WxDxH)         360 x 380 x 66 (mm)         420 x 428 x 88 (mm)	POS		Text-in Based (RS232, TCP/IP Network) / Display POS Data on Live & Playback		
Power         12V x 5A D/C         12V x 7A D/C           Operating Temperature and Humidity         5~40 °C / 20~90% RH         12V x 7A D/C           Dimension (WxDxH)         360 x 380 x 66 (mm)         420 x 428 x 88 (mm)					
Operating Temperature and Humidity         5~40 °C / 20~90% RH           Dimension (WxDxH)         360 x 380 x 66 (mm)         420 x 428 x 88 (mm)					
Dimension (WxDxH)         360 x 380 x 66 (mm)         420 x 428 x 88 (mm)			12V x 5	5A D/C	12V x 7A D/C
Certification CE & FCC & KCC & WEEE, RoHS	· · · · ·		360 x 380	( )	420 x 428 x 88 (mm)
	Certification	Certification		CE & FCC & KCC & WEEE, RoHS	

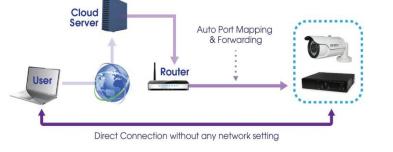
(\*) Specification is subject to change without prior notice.



## ezP2P<sup>™</sup> Cloud Service (www.ezp2p.com)

ezP2P<sup>™</sup> Cloud Service is a cloud-based video management system without any complicated network setting. Just login to ezP2P<sup>™</sup> Cloud Server (www.ezp2p.com) with your own account and enjoy thumbnail preview and instant live monitoring.





#### ezLink<sup>™</sup> with Mac Address

The easiest way to connect to the DVR just by Mac Address.



### **Startup Wizard**

Startup Wizard will guide you through the whole process of system startup. You can setup major DVR Configuration by just following the steps which Wizard guides and also can reconfigure these setting at any time by accessing to main menu.











[Language]

[Date/Time]

[Record]

[HDD]

[Network]

## **Typical PUSH Function**

2 PUSH Functions below provides you with efficient monitoring and control of your DVR. It allows you to be free from constant attention to the event that may or may not happen.

#### **PUSH Video Call** to iPhone & Android Phone



**PUSH Network** 

Connection under Sensor Event



# **Integrated Network Solution**

Guarantee unlimited scalability and seamless integration of all FOCUS products such as DVR, NVR & IP Camera over unique network.





[SmartViewerPro / MobileViewerPro]

