

-(June 25, 2010)-

Stand Alone DVR - Hi-End -- 4/8/16Ch - 1U, 19" Rack Mounted --
-(True H.264 Real Time)-
-(Professional Pentaplex Stand Alone Digital Video Recorder)-

#- Dual Video Stream both for Network Transmission & Recording
offers more flexible monitoring environment on various network conditions - #

--< Features >--

- True H.264 (Main Profile) Compression
- 4Ch-Half D1 Real Time, 8/16Ch-CIF Real Time
- Dual Stream (Optimize Network Transfer Speed)
- All Channel Loop Out, Alarm In / Out
- Mobile View on 3G Device
- POS/ATM Text Insertion on Live & Playback
- * **EASY TO USE**
 - Flexible, User Friendly GUI
- * **DUAL STREAM**
 - Dual Streaming for High Speed Internet
- * **INTUITIVE CMS**
 - Convenient and Versatile Software
- * **E-Mail Notification**
- * **WCS**
 - Watermark Check System
- * **VGA / S-Video**
 - Spot Monitor Output
- * **NTP**
 - Network Time Protocol
- * **Pentaplex**
 - 4 / 8/ 16Chnnel
- * **Archiving**
 - JPEG, EXE Format
- * **POS / ATM**
 - Recording Trnasaction
 - Data from POS / ATM
- * **S.M.A.R.T.**
 - Self Monitoring Analysis
- * **MOBILE VIEWER**
 - Mobile View on 3G Device (iPhone/Blackberry/Android)
- * **Keyboard Controller**
- * **AUDIO**
 - Recording & Playback
- * **E-MAP**
 - Function Support
- * **DDNS & DHCP**
 - Support
- * **IR Remote Controller**
- * **Software Upgrade**
 - Via Network, USB Port

--< Specifications >--

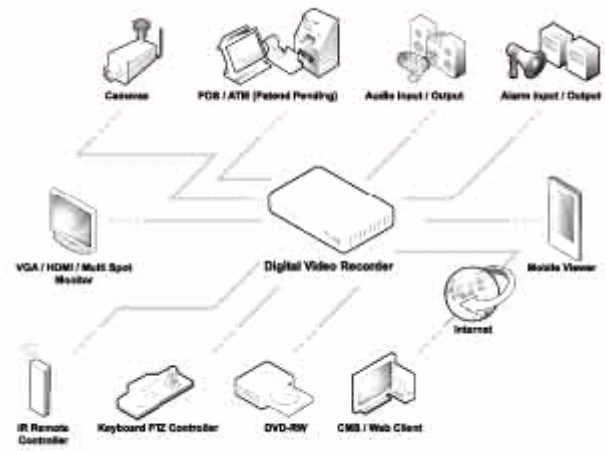
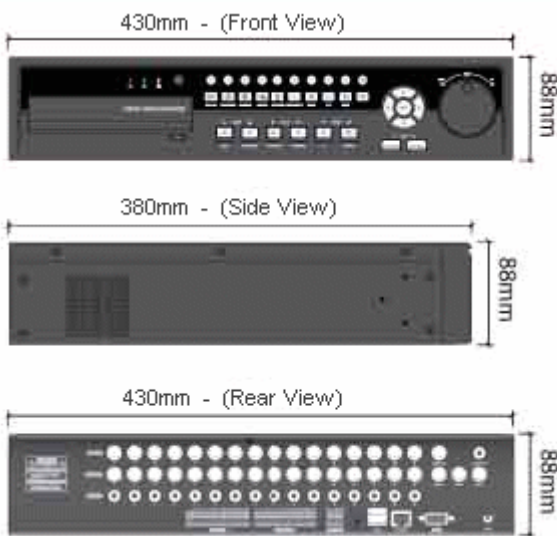
Items	SHU-0412	SHU-0824	SHU-1648
Compression	H.264 (Main Profile)		
Signal Format	NTSC or PAL (Auto Selected)		
Video Input	Composite 4 / 8 / 16 BNC Inputs		
Video Output	1 BNC (1Vp-p, 75Ω)		
Loop Output	Composite: 4/8/16 Looping Outputs		
Spot Output	3 BNC		
Multi Spot Output	None		
VGA Output	1 VGA		
Sequence	Yes		
Max. Recording Rate at CIF (FPS)	120(NTSC)/100(PAL)	240(NTSC)/200(PAL)	480(NTSC)/400(PAL)
Max. Recording Rate at Half D1 (FPS)	120(NTSC)/100(PAL)	120(NTSC)/100(PAL)	240(NTSC)/200(PAL)
Max. Recording Rate at Full D1 (FPS)	60(NTSC)/50(PAL)	60(NTSC)/50(PAL)	120(NTSC)/100(PAL)
Dual Video Stream	Record / Network (Frames Individually Selectable)		
Audio Compression	ADPCM (16 Bit)		
Audio Input	4/8/16 Input (RCA Jack)		
Audio Output	1 Output (RCA Jack)		
Ethernet	10 / 100Mbps Ethernet (RJ-45)		
PTZ Control	RS-485/422 Serial Port 1 (Terminal Block)		
POS / ATM	Up to 1+3 Channels over USB (Optional)		
Alarm Input / Output	4/8/16 (TTL) Programmable as NC/NO		
USB Port	4 x USB (2 x Front Panel, 2 x Rear Panel)		
Control Device	Keypad, Mouse, PTZ Control, Remote Controller		
Recording Qualities	Super / High / Standard		
Recording Modes	Schedule / Alarm / Motion / Emergency		
Network Bandwidth Control	56 Kbps ~ Unlimited		
Pre-Alarm Recording	* Up to 3 Hours / User Programmable		
Motion Detection	Yes (22 X 15)		
Playback Speed	X1, X2, X4, X8, X16, X32, X64, Extreme		
Archive File Format	EXE (Video Clip) / JPEG (Still Image)		
User Interface GUI	Yes		
GMT Time Zone / NTP Server	Yes		
Auto DST	Yes		
Multi Language	English / Danish / Chinese (Traditional) / Japanese / Korean / Italian / Polish / Russian / Chinese (Simplified) Thai / Turkish / Spanish / French / Czech / German / Persian / Portuguese / Croatian		
External Storage	None		
3G Communication	MS Mobile (Professional 6.1 or Higher) / Android / iPhone / Blackberry		
Operating System	Embedded Linux		
OS Firmware	Linux OS in Flash Memory		
Emergency Recording Key	Yes		
Primary Storage	SATA Hard Disk Drive (up to 3+1)		
Clip Copy Storage	Built-in Internal DVD-RW Driver, Memory Stick		
Dimensions (WxHxD)	430x88x380(mm) / 16.93"x3.46"x14.96"		
Operating Temperature	5°C~40°C / 41°F~104°F		

Operating Humidity	0% ~ 90%
Power Adapter	Free Voltage 12VDC, 5A
Power Consumption	Max 39W
	* SHU-0412 can record 120(100)FPS even at 720x240(720x288)



--< Images >--

--< Dimensions (16Ch) & Configuration >--



--< 1U, 19" Rack Installation >--

-(Rack Installed - 1)-



-(Rack Ear - 1)-



-(Rack Ear - 2)-



-(Rack Installed - 2)-



-(Rack Installed - 3)-



-(Rack Installed - 4)-



*Stand Alone DVR - Hi-End -- 4/8/16Ch - Without 1U, 19" Rack --
-(True H.264 Real Time)-*

-(Professional Pentaplex Stand Alone Digital Video Recorder)-

*#- Dual Video Stream both for Network Transmission & Recording
offers more flexible monitoring environment on various network conditions - #*

--< Features >-

- Pentaplex 4/8/16 Channels 120/240/480 FPS*
- H.264 Records and Plays in High-definition Video*
- CMS (Central Monitoring Station) / Web-Client Support*
- Static IP, DHCP, DDNS Support*
- Archiving (EXE Format)*
- USB 2.0 Mouse / USB Stick Memory (Front 2x, Rear 2x)*
- Software Upgrade via Network, USB Port, DVD-RW*
- Keyboard Controller, Various PTZ Protocol Support*
- Audio Recording and Playback (2 Way Audio Conference)*
- VGA Monitor Support*
- NTP (Network Time Protocol)*
- User-friendly Server GUI & Front Design Embedded Linux OS*
- E-mail Notification (Video Clip, Still Image, Message)*
- WCS (Watermark Check System)*
- IR Remote Controller*
- POS / ATM (Patent Pending) (Optional)*
- Mobile Viewer (Windows Mobile 6.0 or Higher)*
- E-MAP Function Support*

--< Specifications >-

Items	SH-0412	SH-0824	SH-1648
Compression	H.264 (Main Profile)		
Signal Format	NTSC or PAL (Auto Selected)		
Video Input	Composite 4 BNC Inputs	Composite 8 BNC Inputs	Composite 16 BNC Inputs
Main Monitor Output	1 BNC / 1 VGA		
Spot Output	1 BNC		
Sequence	Yes		
Main Recording Rate (FPS)	120(NTSC)/100(PAL) at Half D1	240(NTSC)/200(PAL) at CIF	480(NTSC)/400(PAL) at CIF
Video Stream	Dual		
Audio Input	1 Input (RCA Jack)		
Audio Output	1 Output (RCA Jack)		
Ethernet	10 / 100Mbps Ethernet (RJ-45)		
PTZ Control	RS-485/422 Serial Port 1 (Terminal Block)		
ATM / POS	Up to 4 Channels over USB (Optional)		
Alarm Input	4 (TTL) Programmable as NC/NO		
Alarm Output	4 (TTL) Programmable as NC/NO		
USB Port	4 x USB 2.0 (2 x Front Panel, 2 x Rear Panel)		
Recording Qualities	Super / High / Standard		
Network Transmission Quality	Standard 1,2,3,4 / High 1,2,3 / Super 1,2,3		
Network Bandwidth Control	56 Kbps ~ Unlimited		
Recording Modes	Schedule / Alarm / Motion / Emergency		
Pre-Alarm Recording	* Up to 3 Hours / User Programmable		
Motion Detection	Yes (22 X 15)		
Playback Speed	X1, X2, X4, X8, X16, X32, X64, Extreme		
Archive File Format	EXE (Video Clip)		
NTP Server (Network Time Protocol)	Yes		
GMT Time Zone	Yes		
Auto DST	Yes		
Multi Language	English / Danish / Chinese (Traditional) / Japanese / Korean / Italian / Polish / Russian / Chinese (Simplified) / Thai / Turkish / Spanish / French / Czech / German		
Operating System	Embedded Linux		
OS Firmware	Linux OS in Flash Memory		
Emergency Recording Key	Yes		
Primary Storage	SATA Hard Disk Drive (up to 2+1)		
Clip Copy Storage	Built-in Internal DVD-RW Driver, Via USB HDD, Memory Stick		
Dimensions (WxHxD)	350x65x380(mm) / 13.78"x2.56"x14.96"		
Operating Temperature	5°C~40°C / 41°F~104°F		
Operating Humidity	0% ~ 90%		
Power Adapter	Free Voltage 12VDC, 3.33A		
Power Consumption	Max 27W		
Agency Approval	FCC / CE		

--< Images >--



--< System Interconnection & Dimensions >--

