

X-PLUS: DIGITAL VIDEO RECORDER

H.264 Video Compression Digital Video Recorder

SP-DR04 SP-DR08 SP-DR16

- H.264 Video compression
- Reliable File system
- 2 Spots (Live and Event Pop-up) *1
- High quality VGA (1280x1024)
- 4 Channel audio recording
- Individual channel operation
- Motion detection
- Automatic video input and video loss detection
- Built-in PTZ camera control
- Easy and simple user interface
- Easy scheduler
- Easy software upgrade
- Instant and convenient backup via USB flash drive, network or DVD-RW *2
- File Backup (JPEG/AVI/Exclusive Video Format)
- Various ways of network access via Web-viewer, UMS (Single-site & Multi-site monitoring software) and Mobile Viewer

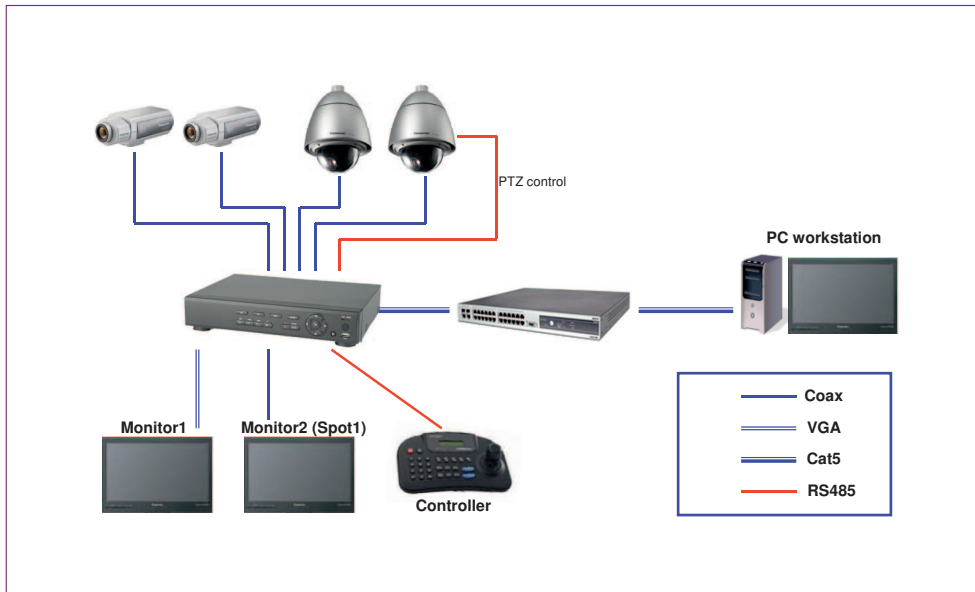
*1 Only available for SP-DR08/ SP-DR16

*2 DVD-RW is the option only available for SP-DR08/ SP-DR16



Digital Video Recorder System Diagram

SP-DR04 System Diagram

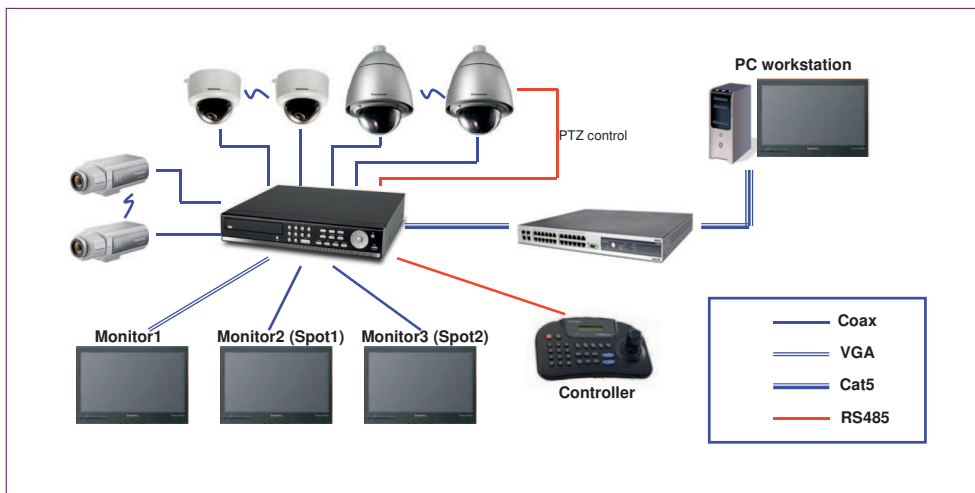


Optional Accessories



Controller

SP-DR08/ SP-DR16 System Diagram



Digital Video Recorder Comparison Chart

	SP-DR04	SP-DR08	SP-DR16
			
Video Inputs	4ch Composite, 1.0Vp-p, 75ohm	8ch Composite, 1.0Vp-p, 75ohm	16ch Composite, 1.0Vp-p, 75ohm
Video Outputs	VGA(1024x768):1VGA + 1CVBS,Dual Display VGA(1024x768):1VGA + 1Spot VGA(1280x1024):1VGA + 1Spot	VGA(1024x768):1VGA + 1CVBS,Dual Display VGA(1024x768):1VGA + 1Spot VGA(1280x1024):1VGA + 2Spot	VGA(1024x768):1VGA + 1CVBS,Dual Display VGA(1024x768):1VGA + 1Spot VGA(1280x1024):1VGA + 2Spot
Audio Inputs	4ch Line Input(Audio Codec:G.711)(RCA)	4ch Line Input(Audio Codec:G.711)(RCA)	4ch Line Input(Audio Codec:G.711)(RCA)
Audio Output	1ch Line Output(Audio Codec:G.711)(RCA)	1ch Line Output(Audio Codec:G.711)(RCA)	1ch Line Output(Audio Codec:G.711)(RCA)
Display Interface	Graphic User Interface(GUI)	Graphic User Interface(GUI)	Graphic User Interface(GUI)
Input Method	Mouse / Remote Control / Front Buttons / Keyboard controller (option)	Mouse / Remote Control / Front Buttons / Keyboard controller (option)	Mouse / Remote Control / Front Buttons / Keyboard controller (option)
Recording	H.264:D1/Half D1/CIF	H.264:D1/Half D1/CIF	H.264:D1/Half D1/CIF
Recording Mode	Continuous / Motion / Sensor / Schedule / Manual	Continuous / Motion / Sensor / Schedule / Manual	Continuous / Schedule / Motion/ Sensor/ Manual
Recording Quality	NETWORK, STANDARD, HIGH, SUPER, ULTRA	NETWORK, STANDARD, HIGH, SUPER, ULTRA	ECONOMY, STANDARD, HIGH, SUPER, ULTRA
Frame Rate Total	CIF 100fps / Half D1 100fps / D1 100fps	CIF 200fps / Half D1 200fps / D1 100fps	CIF 400fps / Half D1 200fps / D1 100fps
Still Image Capture	BMP / JPEG (CIF/Half D1/D1)	BMP / JPEG (CIF/Half D1/D1)	BMP / JPEG (CIF/Half D1/D1)
Motion Detection	Full Zone / Partial Zone	Full Zone / Partial Zone	Full Zone / Partial Zone
Pre-recording	1 fps for 10 seconds before an event	1 fps for 10 seconds before an event	1 fps for 10 seconds before an event
Post-recording	10 seconds to 3 minutes after an event	10 seconds to 3 minutes after an event	10 seconds to 3 minutes after an event
Playback speed	Single Channel: x2,4,8,16 Multi-Channel: x2,4	Single Channel: x2,4,8,16 Multi-Channel: x2,4	Single Channel: x2,4,8,16 Multi-Channel: x2
Backup File Format	JPEG / AVI / Exclusive Video Format	JPEG / AVI / Exclusive Video Format	JPEG / AVI / Exclusive Video Format
Camera Control	Pan/Tilt, Zoom, Focus, Preset, Tour, Auto pan	Pan/Tilt, Zoom, Focus, Preset, Tour, Auto pan	Pan/Tilt, Zoom, Focus, Preset, Tour, Auto pan
Search Mode	Timeline / Event / Archive / Log	Timeline / Event / Archive / Log	Timeline / Event / Archive / Log
Multiscreen Mode	4 split screen display, PinP	1,4,8 split screen display, PinP	1,4,8,16 split screen display, PinP
Copy to External Media	USB Flash Drive / USB HDD / Network	USB Flash Drive / USB HDD / Network / Built-in DVD-RW (optional)	USB Flash Drive / USB HDD / Network / Built-in DVD-RW (optional)
Network Interface	1x 10/100Base-TX Ethernet (RJ-45)	1x 10/100/1000 base-T Ethernet (RJ-45)	1x 10/100/1000 base-T Ethernet (RJ-45)
Dual Stream	CIF 60fps/50fps	CIF 120fps/100fps(NTSC/PAL)	CIF 120fps/100fps(NTSC/PAL)
Remote Access	PC Client(Live / Search / Playback/ Backup / PTZ Control) Web Viewer(Live / Search / Playback/ Backup / PTZ Control) 3G Mobile Access(iPhone Android)	PC Client(Live / Search / Playback/ Backup / PTZ Control) Web Viewer(Live / Search / Playback/ Backup / PTZ Control) 3G Mobile Access(iPhone Android)	PC Client(Live / Search / Playback/ Backup / PTZ Control) Web Viewer(Live / Search / Playback/ Backup / PTZ Control) 3G Mobile Access(iPhone Android)
Alarm	VMD Alarm 4 Input (NC/NO Selectable),1 Out (Sensor In, Motion Detect, Video Loss)	VMD Alarm 4 Input (NC/NO Selectable),1 Out (Sensor In, Motion Detect, Video Loss)	VMD Alarm 4 Input (NC/NO Selectable),1 Out (Sensor In, Motion Detect, Video Loss)
RS-485 Camera Interface	1x RS-485, 2wire, half duplex,for 1 ~ 4 CH	1x RS-485, 2wire, half duplex,for 1 ~ 8 CH	1x RS-485, 2wire, half duplex,for 1 ~ 16 CH
Camera control via RS-485	Many (including Panasonic/Pelco P/D)	Many (including Panasonic/Pelco P/D)	Many (including Panasonic/Pelco P/D)
Serial Port	N/A	1 RS-232C (9pin D-SUB connector)	1 RS-232C (9pin D-SUB connector)
Mouse/Copy	2x USB port	2x USB port	2x USB port
HDD Type	1 x 3.5 inch SATA 2TB	1 x 3.5 inch SATA 2TB (2 x 3.5 inch SATA 2TB without DVD-RW)	1 x 3.5 inch SATA 2TB (2 x 3.5 inch SATA 2TB without DVD-RW)
Day Light Saving (DLS)	Yes	Yes	Yes
Internal Buzzer	By Alarm, Motion, Video Loss, HDD error	By Alarm, Motion, Video Loss, HDD error	By Alarm, Motion, Video Loss, HDD error
Mult-Language	14 Languages (English/Korean/Japanese/Italian/Czech/ Greek/Croatian/Polish/Portuguese/Russian/Turkish/ Simplified Chinese/Farsi/German)	14 Languages (English/ Korean/Japanese/Italian/Czech/Greek/Croatian/ Polish/Portuguese/Russian/Turkish/ Simplified Chinese/Farsi/German)	14 Languages (English/Korean/Japanese/Italian/ Czech/Greek/Croatian/Polish/Portuguese/Russian/ Turkish/Simplified Chinese/Farsi/German)
Software Upgrade	USB Flash drive	USB Flash drive	USB Flash drive
Network Time Protocol (NTP)	Yes	Yes	Yes
Remote Setup	Yes	Yes	Yes
Power Source	DC 12V 3A	DC 12V 5A	DC 12V 5A
Ambient Operating Temperature	5 ~ 40°C	5 ~ 40°C	5 ~ 40°C
Ambient Operating Humidity	0 ~ 90%	0 ~ 90%	0 ~ 90%
Dimensions	340mm x 262mm x 63mm	380mm x 340mm x 72mm	380mm x 340mm x 72mm
Weight	1.5Kgs	4.1Kgs	4.1Kgs