

# Video Security Recording & Monitoring Line-up 2013



Monitors



Monitors		
	SSM-L22F1	SSM-L24F1
<b>Specifications</b>	<b>SSM-L22F1</b>	<b>SSM-L24F1</b>
24/7 Usage	Yes	Yes
Image Sticking Minimization	Yes	Yes
Anti-Glare Surface	Yes	Yes
Picture in Picture Mode	Yes	Yes
OSD Languages	10	10
Gray and Black Ornament	-	Yes
Energy Star Compliant	Yes	Yes
Mounting Option	VESA 100 x 100	VESA 100 x 100
Panel Type	a-Si TFT TN	a-Si TFT TN
Backlight System	LED	LED
Panel Size (Diagonal ca.)	21.5" (54.6 cm)	24" (61 cm)
Resolution	1920 x 1080	1920 x 1080
Pixel Pitch ca.	0.25 x 0.25 mm	0.28 x 0.28 mm
Picture Size (H x V)	476.6 x 268.1 mm	531.4 x 298.9 mm
Brightness (typ.)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Contrast Ratio (typ.)	1000:1	1000:1
Color Depth	16.7 million colors	16.7 million colors
Viewing Angle (H/V, typ.)	170°/160°	170°/160°
Framerate	60 Hz	60 Hz
Usage	Horizontal	Horizontal
Color System	NTSC, PAL	NTSC, PAL
Sampling Rate	25.2 MHz to 148.5 MHz	25.2 MHz to 148.5 MHz
HDMI In 1080p	x 1	x 1
DVI In (Rev.1.0 compliant)	x 1	x 1
HD15 In	x 1	x 1
RGB Component In	via HD15	via HD15
S-Video In	x 1	x 1
Composite Video In	x 1	x 1
RS-232 (service use only)	x 1	x 1
Speaker Out (L/R)	3 W + 3 W (built-in)	3 W + 3 W (built-in)
Power Requirement	AC Adaptor, 100 to 240 V (50/60 Hz)	AC Adaptor, 100 to 240 V (50/60 Hz)
Power Consumption (typ.)	32 W	34 W
Power Consumption Standby	0.5 W	0.5 W
Operating Temperature	5°C to 40°C	5°C to 40°C
Storage Temperature	-20°C to +60°C	-20°C to +60°C
Humidity	10 to 80% (non-condensing)	10 to 80% (non-condensing)
Dimensions (W x H x D) (approx.)	516.5 x 312 x 60.5 mm, excluding protrusions	569.5 x 353 x 44 mm, excluding protrusions
Bezel Width (T/B/L/R)	20/30/15/15	18.5/22.9/20.1/20.1
Mass (approx.)	3.36 kg	4.40 kg
Supplied Accessories	AC adaptor (1), VGA cable (1), Cable clamp (1), Operation Manual (1)	AC adaptor (1), VGA cable (1), Cable clamp (1), Operation Manual (1), Logo plates (black, gray) (1 each)
Optional Accessories	SSMA-SU10 (Table Stand)	SSMA-SU10 (Table Stand)
Warranty	1 Year	1 Year

Intelligent Monitoring Software



Intelligent Monitoring Software (Version 1.6.1)						
	RSM Advanced	RSM Advanced	RSM Advanced	RSM Advanced	RSM Advanced	RSM Lite
	IMZ-NS101	IMZ-NS104	IMZ-NS109	IMZ-NS116	IMZ-NS132	RSM-Lite
<b>Specifications</b>						
Type	License	License	License	License	License	Freeware
Camera Licenses	1	4	9	16	32	9
Supported Cameras	1 (*1)	4 (*1)	9 (*1)	16 (*1)	32 (*1)	9 (*2)
Supported Audio	1	4	9	16	32	9
Number of Clients to be connected (*3)	10	10	10	10	10	3
Video Compression	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG
Audio Compression	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726
Max. Recording Frame Rate	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera
ONVIF	Profile S	Profile S	Profile S	Profile S	Profile S	-
<b>System Requirements</b>	Windows 7 Professional, Windows 7 enterprise, Windows Vista® Business SP2 (32 bit), Windows Vista® enterprise SP2 (32 bit), Windows® XP Professional SP3 (32 bit), Windows® server 2003 standard edition SP2(32bit), Windows® server 2008 standard edition SP2 (32 bit), Windows server 2008 R2 standard. Note: refer to software release notes for more latest information.					
Operating System	Windows 7 Professional, Windows 7 enterprise, Windows Vista® Business SP2 (32 bit), Windows Vista® enterprise SP2 (32 bit), Windows® XP Professional SP3 (32 bit), Windows® server 2003 standard edition SP2(32bit), Windows® server 2008 standard edition SP2 (32 bit), Windows server 2008 R2 standard. Note: refer to software release notes for more latest information.					
CPU	Intel Core™ 2Duo 2.0-GHz or higher	Intel Core™ 2Duo 2.0-GHz or higher	Intel Core™ 2Duo 2.0-GHz or higher	Intel Core™ 2Duo 2.0-GHz or higher	Intel Core™ 2Duo 2.0-GHz or higher	Intel Core™ 2Duo 2.0-GHz or higher
Main Memory	1 GB or more (2 GB recommended)	1 GB or more (2 GB recommended)	1 GB or more (2 GB recommended)	1 GB or more (2 GB recommended)	1 GB or more (2 GB recommended)	1 GB or more (2 GB recommended)
HDD	2 GB spare capacity	2 GB spare capacity	2 GB spare capacity	2 GB spare capacity	2 GB spare capacity	2 GB spare capacity
Video Card	1024 x 768, 16/24 bit colour	1024 x 768, 16/24 bit colour	1024 x 768, 16/24 bit colour	1024 x 768, 16/24 bit colour	1024 x 768, 16/24 bit colour	1024 x 768, 16/24 bit colour
Network Interface Card (NIC)	100Base-TX or higher	100Base-TX or higher	100Base-TX or higher	100Base-TX or higher	100Base-TX or higher	100Base-TX or higher
Display Resolution	1024 x 768 or higher	1024 x 768 or higher	1024 x 768 or higher	1024 x 768 or higher	1024 x 768 or higher	1024 x 768 or higher
System Controller						
<b>Optional Accessories</b>						
	RM-NS1000	RM-NS1000	RM-NS1000	RM-NS1000	RM-NS1000	RM-NS1000

Indication:  
 \*1) It is possible to connect more than 32 cameras to a server by installing a corresponding number of licenses on the server, but such addition is not recommended to assure high performance. Please also note that display and recording performance basically depends on the server.  
 \*2) Only Sony cameras supported.  
 \*3) The figures in the table are recommended numbers of clients to assure high performance. It is technically possible to connect more clients to a server, but such increase may deteriorate the overall performance.

Network Video Recorders



Network Video Recorders (Version 1.6.1)							
Specifications	NSR-500	NSR-500/1TB	NSR-500/2TB	NSR-500/4TB	NSR-500/8TB	NSR-500/12 TB	
Supported Cameras	16 (max. 24 ch with NSBK-CL05)	16 (max. 24 ch with NSBK-CL05)	16 (max. 24 ch with NSBK-CL05)	16 (max. 24 ch with NSBK-CL05)	16 (max. 24 ch with NSBK-CL05)	16 (max. 24 ch with NSBK-CL05)	
Analogue Cameras (Option)	up to 16	up to 16	up to 16	up to 16	up to 16	up to 16	
Master/Slave Configuration	20 (1 Master and 19 Slave)	20 (1 Master and 19 Slave)	20 (1 Master and 19 Slave)	20 (1 Master and 19 Slave)	20 (1 Master and 19 Slave)	20 (1 Master and 19 Slave)	
F/W Update USB / CD-DVD	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	
Configuration Import / Export	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	
Layout Import / Export	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	
Hot Swapable HDD's	Yes	Yes	Yes	Yes	Yes	Yes	
Number of Clients	10	10	10	10	10	10	
ONVIF	Profile S	Profile S	Profile S	Profile S	Profile S	Profile S	
Video Compression	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	
Max. Recording Frame Rate	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera	60 fps / Camera	
Total Recording Frame Rate *1)	480 fps (H.264, Full-HD)	480 fps (H.264, Full-HD)	480 fps (H.264, Full-HD)	480 fps (H.264, Full-HD)	480 fps (H.264, Full-HD)	480 fps (H.264, Full-HD)	
Total Recording Bit Rate *1)	64 Mbps (H.264, Full-HD)	64 Mbps (H.264, Full-HD)	64 Mbps (H.264, Full-HD)	64 Mbps (H.264, Full-HD)	64 Mbps (H.264, Full-HD)	64 Mbps (H.264, Full-HD)	
HDD Interface	Serial ATA 6 bay	Serial ATA 6 bay	Serial ATA 6 bay	Serial ATA 6 bay	Serial ATA 6 bay	Serial ATA 6 bay	
HDD Size	6 bay	1 TB	2 TB (1 TB x 2)	4 TB (1 TB x 4)	8 TB (2 TB x 4)	12 TB (2 TB x 6)	
HDD Recording Capacity	-	Approx. 883 GB (No Raid)	Approx. 1.7 TB (Raid 0)	Approx. 2.6 TB (Raid 5)	Approx. 5.4 TB (Raid 5)	Approx. 9 TB (Raid 5)	
Available RAID Level *2)	RAID 0, 1 (1+0), 5, 5+hot spare	RAID 0, 1 (1+0), 5, 5+hot spare	RAID 0, 1 (1+0), 5, 5+hot spare	RAID 0, 1 (1+0), 5, 5+hot spare	RAID 0, 1 (1+0), 5, 5+hot spare	RAID 0, 1 (1+0), 5, 5+hot spare	
Expansion Storage *3)	iSCSI storage	iSCSI storage	iSCSI storage	iSCSI storage	iSCSI storage	iSCSI storage	
Sensor In	8x (DC3.3 V to 24 V, photo coupler)	8x (DC3.3 V to 24 V, photo coupler)	8x (DC3.3 V to 24 V, photo coupler)	8x (DC3.3 V to 24 V, photo coupler)	8x (DC3.3 V to 24 V, photo coupler)	8x (DC3.3 V to 24 V, photo coupler)	
Alarm Out	8x (Max. DC 24V/1A, relay output)	8x (Max. DC 24V/1A, relay output)	8x (Max. DC 24V/1A, relay output)	8x (Max. DC 24V/1A, relay output)	8x (Max. DC 24V/1A, relay output)	8x (Max. DC 24V/1A, relay output)	
Audio Out	Stereo mini jack x 1	Stereo mini jack x 1	Stereo mini jack x 1	Stereo mini jack x 1	Stereo mini jack x 1	Stereo mini jack x 1	
Monitor Out *4)	Analog RGB (D-sub 15-pin) x 1	Analog RGB (D-sub 15-pin) x 1	Analog RGB (D-sub 15-pin) x 1	Analog RGB (D-sub 15-pin) x 1	Analog RGB (D-sub 15-pin) x 1	Analog RGB (D-sub 15-pin) x 1	
RGB Out (Option)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	
HDMI Out (Option)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	1 x (NSBK-DH05)	
Monitor Out Display Resolution (NSBK-DH05)	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	1,920 x 1,200 / 1,920 x 1,080 / 1,360 x 768 / 1,600 x 1,200 / 1,280 x 1,024 / 1,024 x 768	
Ethernet	100BASE-T/100BASE-TX/10BASE-T	100BASE-T/100BASE-TX/10BASE-T	100BASE-T/100BASE-TX/10BASE-T	100BASE-T/100BASE-TX/10BASE-T	100BASE-T/100BASE-TX/10BASE-T	100BASE-T/100BASE-TX/10BASE-T	
Ethernet Ports	2	2	2	2	2	2	
USB	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	2 x USB2.0 (Front), 2 x USB2.0 (Rear)	
Serial Interface (for UPS)	1 x RS-232C	1 x RS-232C	1 x RS-232C	1 x RS-232C	1 x RS-232C	1 x RS-232C	
Power Requirement	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	100 V to 127 V AC / 200 V to 240 V (50/60 Hz)	
Power Consumption	Max. 250 W (100-240 V 3.5-1.5 A)	Max. 250 W (100-240 V 3.5-1.5 A)	Max. 250 W (100-240 V 3.5-1.5 A)	Max. 250 W (100-240 V 3.5-1.5 A)	Max. 250 W (100-240 V 3.5-1.5 A)	Max. 250 W (100-240 V 3.5-1.5 A)	
Operating Temperature	5 to 40 °C	5 to 40 °C	5 to 40 °C	5 to 40 °C	5 to 40 °C	5 to 40 °C	
Storage Temperature	20 to 80 % (no condensing)	20 to 80 % (no condensing)	20 to 80 % (no condensing)	20 to 80 % (no condensing)	20 to 80 % (no condensing)	20 to 80 % (no condensing)	
Dimensions (W x H x D) (approx.)	440 x 88 x 400 mm, excluding protrusions	440 x 88 x 400 mm, excluding protrusions	440 x 88 x 400 mm, excluding protrusions	440 x 88 x 400 mm, excluding protrusions	440 x 88 x 400 mm, excluding protrusions	440 x 88 x 400 mm, excluding protrusions	
Mass (approx.)	6.8 kg	6.8 kg (w/o HDD)	6.8 kg (w/o HDD)	6.8 kg (w/o HDD)	6.8 kg (w/o HDD)	6.8 kg (w/o HDD)	
Supplied Accessories	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)	Installation manual x 1, CD-ROM x 1, Flyer (WEEE) x 1, Flyer (EU battery) x 1, Warranty booklet x 1, Front panel key x 2, Rubber PAD x 4, HDD screw x 24 (*w/o HDD model only), Setup Disc x 1 (*w/o HDD model only)
Optional Accessories	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	NSBK-EB05 (Analogue Encoder Board) NSBK-DH05 (Display Acceleration Board) NSBK-CL05/D4 (License for 4 additional Cameras) NSBK-HS05/Ox (Hard Disc 1 TB or 2 TB) NSRE-Sixx/1 (iSCSI Storage 8 or 16 Bays) RM-NS1000 (USB Joystick)	
PrimeSupport	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	
PrimeSupport Extension	plus 2 Year Option	plus 2 Year Option	plus 2 Year Option	plus 2 Year Option	plus 2 Year Option	plus 2 Year Option	

Indication:  
 \*1) Please contact your Sony dealer for detailed specification about total storage capacity.  
 \*2) RAID level to be selected depends on the number of HDDs.  
 \*3) The total Storage Capacity Internal in addition to External shouldn't exceed 16 TB. The total recording Frame rate is limited to 240 fps in total when iSCSI storage is used.  
 \*4) Monitor output is intended for configuration only. For Live Monitoring and Playback RSM Advanced Client software is recommended



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#### About Sony PSE

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