

MPEG-4 DVR

DSR-2116 16ch

DSR-2108 8ch

- Live picture monitoring at 960 IPS (60IPS x 16ch DSR-2116)  
480 IPS (60IPS x 8ch DSR-2108)
- Maximum recording speed at 240 IPS (DSR-2116) / 120 IPS (DSR-2108)
- Remote surveillance via network
- Easy backup with built-in DVD-R/W Drive and USB terminal
- Telemetry Control via Coax and RS-485

Easy Backup with  
a built-in DVD drive.



## Simultaneous Recording/Playback at 240 IPS (DSR-2116)

The DSR-2116 / DSR-2108 offers the capability to smoothly record and playback movement at a maximum rate of 240 IPS (DSR-2116) / 120 IPS (DSR-2108). It also features two HDD bays, enabling expansion of storage capacity.

## Low Bit Rate but High Image Quality

The MPEG-4 is capable of providing quality images at a low bit-rate. It is possible to record for considerably longer than systems using JPEG compression.

## Camera Telemetry Control

The DSR-2116 / DSR-2108 is capable of controlling PTZ dome cameras and zoom cameras through coaxial cables or RS-485. It also allows this control from a network PC or a controller. The unit also supports protocols of other major brands.

## Network

The DSR-2116 / DSR-2108 offers network connectivity with using Utility software and Internet Explorer. MPEG-4 is an international standard for highly efficient digital encoding (compression) of video and audio signals. This means it is also highly efficient for transmission over a network.

## DDNS (Dynamic DNS)

The DSR-2116 / DSR-2108 can be accessed with a fixed host name (e.g. sanyodsr2116jp), which makes the network easy to remember, always available, and secure.

## Standard Configuration with a DVD-R/W Drive

The DSR-2116 / DSR-2108 comes with a DVD-R/W drive and a USB (2.0) port in a standard package making it easy to back up video in JPEG or AVI format. Downloading and uploading of setup menus by use of a USB offers an easy option for setting up recorders.

## Search Functions

Four search functions are available — "Event Search" "Time / Date Search" "Time line Search" and "Book Mark Search" — find recordings instantly.

## Other Features

- Full, Multi, QUAD and sequential display
- LOG History

## Packaged software "SANYO DVR Utility 2000S"

OS	Windows® XP Professional SP2, Windows® XP Home, Windows® Vista
CPU	Pentium®4 1.2GHz or higher
Memory	Windows® XP: 256MB or more (512MB or more Recommended) Windows® Vista: 512MB or more (1GB or more Recommended)
VGA	16MB or more (64MB or more Recommended)
Display	XGA (1024x768 pixel), 16.7-million color Direct X®: Direct X® 8.1 or above
HDD	System setup area: 10MB, Data save area: 2.1GB or above

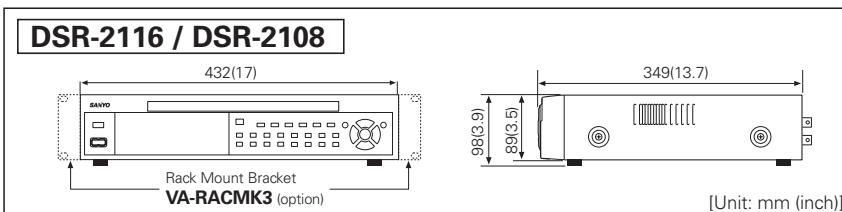
MODEL	DSR-2116	DSR-2108		
General	Hard disk capacity		Max HDD Capacity per One bay 2TB	
	Bay		2bay	
	Picture resolution		704 x 480, 704 x 240, 352 x 240 (pixels)	
	Compression		MPEG-4	
	Picture quality		5 levels (Network, Economy, Basic, Normal, Fine)	
	Recording speed		240IPS (352x240/ch), 120IPS (704x240/ch), 60 IPS (704x480/ch)	120IPS (352x240/ch), 60IPS (704x240/ch), 30 IPS (704x480/ch)
	Still image capture		704 x 480	
	Number of cameras		16	8
	Menu language		English / French / German / Spanish / Italian / Russian / Chinese / Polish / Czech / Swedish / Rumanian / Bulgarian / Serbian / Japanese / Thai	
	Telemetry control protocol		Coaxial: SANYO (H-SSP) / PELCO-C / BBV RS-485: SANYO (SSP) / PELCO-D / KALATEL / VICON / SENSORMATIC / ELMO	
Search Mode	Event Search, Time / Date Search, Time line Search, Book Mark			
Video	Signal format		NTSC standard (color) / EIA standard (B/W) auto select, 525 lines, 60 IPS	
	Video input		VBS / VS 1.0 V (p-p) 75 Ω BNC x 16	VBS / VS 1.0 V (p-p) 75 Ω BNC x 8
	Main monitor output		VBS / VS 1.0 V (p-p) 75 Ω BNC x 1, VGA x 1* <sup>1</sup>	
	S-video output		x 1	
	Monitor 2 output		BNC x 1	
	Through output		BNC x 16	BNC x 8
Audio	Audio input		-8 dBs 27 kΩ unbalanced RCA x 4	
	Audio output		-8 dBs 600 Ω unbalanced RCA x 1	
Backup	USB 2.0 memory & DVD		JPEG & AVI	
Network	Interface		ADSL, LAN / DDNS supported	
	LAN port		10BASE-T / 100BASE-TX	
Control signal	Sensor alarm input		x 16	x 8
	Alarm output		x 4 (0.5 A 12.5 V AC, 1 A 30 V DC) [Values in parentheses are the relay ratings inside the DSR-2116 / DSR-2108.]	
Remote control	Power source		IR remote control can control up to 99 units	
Electrical	Power consumption		100 V to 240 V AC, 4A	
	Operating conditions		approx. 70 W (HDD x 1 + DVD-R/W)	approx. 65 W (HDD x 1 + DVD-R/W)
Physical	Dimensions		Temperature: 5°C to 40°C [41°F to 104°F], Humidity: 80% or less	
	Weight		432(W) x 98(H) x 349(D) mm [17.0 (W) x 3.9(H) x 13.7(D) in]	7.6kg [16.8 lbs] (with two HDD units + Built-in DVD-R/W) 6.2kg [13.7 lbs] (without HDD unit + Built-in DVD-R/W)

NOTE: Specifications subject to change without notice

\*<sup>1</sup> Either the video output or VGA output can be enabled at any one time.

### Warnings regarding HDDs

- Do not attempt to install or replace a HDD on your own. You cannot use these HDDs on PCs.
- The unit may be damaged if it is exposed to an impact or vibration, or the power plug is disconnected during operation.
- Sanyo will not be held liable for any data loss due to an HDD error or a failure during recording.
- \* All other company and product names are registered trademarks and/or trademarks of their respective owners.



SSP devices	PAN-FOCUS
<b>Cameras</b> AF Zoom Camera <b>VCC-ZM600</b> <small>DAY/NIGHT</small> Weatherproof AF Zoom Camera <b>VCC-XZ600</b> <small>DAY/NIGHT</small> AF Speed Dome Camera <b>VCC-9800 E</b> <small>DAY/NIGHT</small> / <b>VCC-9700 E</b> <b>VCC-9600 E</b> <small>DAY/NIGHT</small> / <b>VCC-9500 E</b>	Weatherproof Camera <b>VCC-XZ200+VA-20ST</b> <small>DAY/NIGHT</small> Indoor mini Dome Camera <b>VCC-P7574+VA-50ST</b> Vandal-resistant Dome Camera <b>VCC-DP7584+VA-50ST</b> <small>DAY/NIGHT</small> Indoor mini PTZ Dome Camera <b>VCC-P9574S</b> Vandal-resistant PTZ Dome Camera <b>VCC-DP9584S</b> <small>DAY/NIGHT</small>
<b>Controller</b> SSP System Controller <b>VSP-9000</b>	SSP System Controller <b>VSP-8500</b>



**\*Caution:** Please consult the instruction manual to ensure safe and proper operation of the product.



Digital System Company of SANYO Electric Co., Ltd. obtained Quality Management System ISO9001 and Environmental Management System ISO14001 certifications.

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