Panasonic ideas for life

Digital Disk Recorders WJ-HD220 Series

WJ-HD220/32 (320GB HDD) WJ-HD220/16 (160GB HDD)



For up to eight cameras, with up to 320GB of storage, Ethernet compatible.



A Wide Variety of Basic Features, Plus Smoother Control from Your PC.

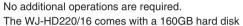
High image quality with minimal degradation no matter how many times you record and play back. No need to change and store tapes, so costs are lower. Quick retrieval of exactly the scenes you want. Plus, full-featured surveillance capability. This advanced hard disk storage system makes recording simple, and easy.





Stores up to about three (3) years of continuous input from up to eight cameras (NORMAL 720H x 286V Mode, Extended Recording Mode, 0.1 FPS)

The WJ-HD220/32 comes with a 320GB hard disk as standard equipment. That's enough storage for up to about three (3) years (1,080 days) of continuous image data input* from eight cameras. Once installed, addressing is automatic.



as standard equipment, with the option of adding

a second 160GB disk. *See the DISK DATA REFERENCE CHART at the foot of this page.

Twice as long in SIF Mode

The WJ-HD220 Series also support SIF (352H x 286V) Mode, which reduce image data volume by half, thus doubling the number of days / hours of data that

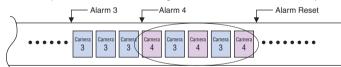
Cache captures images before sensor signals movement

Pre-Alarm Screen

This feature allows you to view images from up to five seconds before alarm signals are received from external sensors or motion detectors.



When multiple alarms are received, images from all alarmed cameras are captured.



Time-lapse Images

This feature allows you to pre-set each camera to capture images at pre-determined intervals.



Live Monitoring

Coaxial cabling supports direct control of cameras

directly to Panasonic PTZ cameras through channels 1 to 4 allows direct control of cameras with the System Controllers WV-CU650 or WV-CU360CJ (optional).

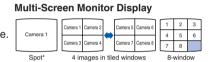


Choose Multi-screen or Spot Monitor / or Both

On the back of the WJ-HD220 Series you will find two monitor output connectors, one for a Spot Monitor and one for a Multi-screen Monitor.

The Multi-Screen Monitor allows you to view images

from several cameras at once. *Independent Spot and Multi Monitor outputs allow monitoring of images from individual cameras.



Search



Instantly retrieve the scenes you want to see

Direct (Time & Date) Search

Enter year, month, day and time. The system plays back the closest image to the date and time you specify



List Search

Display list of times when alarm signal was received. Just click on the one you want to play back

A	LARM R	ECALL	YEAR04
NO.	DATE	TIME	ALM
2000	06-14	20:30	:00 T1
1999	06-14	15:30	:12 T3
1998	06-14	12:15	:04 T4
1997	06-14	12:15	:02 V8
1996	06-14	10:07	:05 V2
1995	06-14	10:07	:04 T2
1994	06-14	10:06	:55 T6
1993	06-14	09:58	:32 V5
(TOTA	L 200	OEVENT	3)
TO S	EARCH	PUSH TA	D KEV

Easy back-up with a VTR

The front panel is equipped with a video output connector. To copy images stored in the WJ-HD220 Series, hook up a VTR. video camera or printer



DISK DATA REFERENCE CHART PAL Colour Video Signal, 320GB, Audio Signal: Off

Pixels: 720H x 286V NOR							ORM	AL M	ode							
R	ecording	Hours	48	72	96	120	180	240	480	960	1,440	2,160	4,320	8,640	17,280	25,920
M	ode	(Days)	(2)	(3)	(4)	(5)	(7.5)	(10)	(20)	(40)	(60)	(90)	(180)	(360)	(360)	(1,080)
z	Extended	FPS	-	-	25.0	-	12.5	8.3	5.0	-	-	1.0	0.5	-	-	0.1
0	Normal	FPS	-	25.0	-	-	-	8.3	3.5	2.0	-	1.0	0.5	-	0.1	-
o	Fine	FPS	-	25.0	-	12.5	8.3	6.2	3.5	-	1.0	-	-	-	0.1	-
Ш	Super Fine	FPS	25.0	-	-	12.5	8.3	6.2	2.0	-	1.0	-	-	0.1	-	_
													(FPS:	Frame	Per S	econd)

												(1.1.0	, . i iaiii	0 1 01 0	coona
Pixels: 352H x 286V SIF Mode															
Г	Recording	Hours	120	180	240	480	960	1,440	2,160	4,320	8,640	25,920	34,560	43,200	51,840
	Mode	(Days)	(5)	(7.5)	(10)	(20)	(40)	(60)	(90)	(180)	(360)	(1,080)	(1,440)	(1,800)	(2,160)
	Extended	FPS	-	25.0	12.5	8.3	5.0	3.5	2.0	1.0	0.5	-	-	-	0.1
ŀ	ONormal	FPS	-	-	12.5	8.3	-	2.0	-	1.0	0.5	_	-	0.1	-
ŀ	Fine	FPS	25.0	-	12.5	6.2	3.5	2.0	-	-	-	-	0.1	-	-
ľ	Super Fin	e FPS	25.0	-	12.5	6.2	-	2.0	-	0.5	-	0.1	-	-	-
												(FPS	: Fram	e Per S	econd)

Pi	(els:720H	c 286V		1	IORM	IAL M	ode					
С	apture Rate	FPS	25.0	12.5	8.3	6.2	5.0	3.5	2.0	1.0	0.5	0.1
3	Extended	Hours	105	210	310	420	520	730	1,260	2,630	5,270	26,370
0	Normal	Hours	87	175	260	350	430	610	1,050	2,190	4,390	21,970
o	Fine	Hours	79	155	230	310	390	550	940	1,970	3,950	19,750
ш	Super Fine	Hours	63	125	185	250	310	440	750	1,570	3,150	15,790
												(1.1)

Pix	els : 352H :	c 286V			SIF	Mod	е					
C	apture Rate	FPS	25.0	12.5	8.3	6.2	5.0	3.5	2.0	1.0	0.5	0.1
2	Extended	Hours	210	420	630	840	1,050	1,470	2,530	5,270	10,540	52,740
0	Normal	Hours	175	350	520	700	870	1,230	2,100	4,390	8,790	43,950
o	Fine	Hours	155	310	470	630	790	1,100	1,890	3,950	7,900	39,510
ш	Super Fine	Hours	125	250	370	500	630	880	1,510	3,150	6,310	31,580

(above figures are approximately, actual recording time may differ.)



Standard Network Features

- Live Monitoring
- Recording
- Playback recorded image
- Camera Control
- Time & Date / List Search • Image storage on a PC
- Alarm notification
- Setup

Embedded date and time stamp display

Embedding the date and time in the JPEG image enhances reliability. When used as evidence, it strengthens criminal cases

button and the menu opens. The menu makes it easy to select the WJ-HD220 Series and network settings you need.

Alarm List Search Feature

Use date, time and camera channel to quickly search a list of up to 9,999 alarms.



download image data stored in the WJ-HD220 Series.

- Up to 10 WJ-HD220 Series Digital Disk Recorders can be registered.
- Images can be automatically downloaded at pre-set times.
- The zoom feature enlarges images up to 5x.



Loaded with Handy Surveillance Features

Multi-language Capability

The OSD Setup, installation menus and HTML can be displayed in seven languages: English, German, French, Italian, Spanish, Russian*, and Chinese*. *Russian and Chinese in HTML only

Simultaneous Recording, Playback, Live or Network

Recording continues during playback, live monitoring, and network operations.

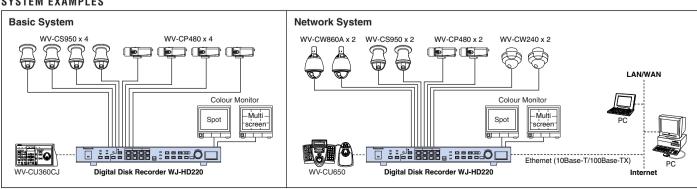
Electronic Zoom

Both played back and live images can be zoomed 2x or 4x* to examine details. *2x only in SIF Mode

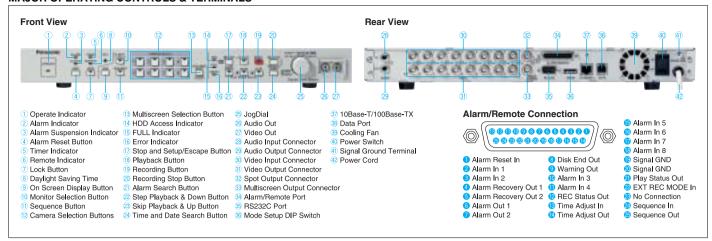
Motion Detector Feature

Sensor detects movement in the area under surveillance and automatically displays the scene

SYSTEM EXAMPLES



MAJOR OPERATING CONTROLS & TERMINALS



SPECIFICATIONS PAL

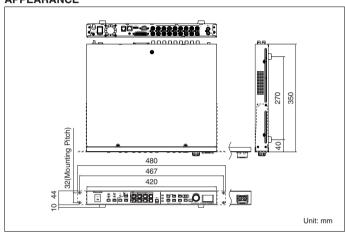
General	
Power Source Required	220 V - 240 V AC, 50 Hz
Power Consumption	45 W
Ambient Operating Temperature	+5 °C - +45 °C
Ambient Operating Humidity	Less than 85 %
Dimensions	420 mm (W) x 44 mm (H) x 350 mm (D)
Weight	5.2 kg
Input	
Video Input	1.0 V[p-p]/75 Ω Composite video signal with 75 Ω Automatic Termination
	Looping through (x8)
Audio Input	-10 dB 10 kΩ unbalanced, RCA standard jack
Image Process	
Compression System	JPEG
Pixel Rate	Normal; 720H x 286V (Effective pixels 656H x 272V)
	SIF; 352H x 286V
Refresh Rate	25 FPS maximum
Output	
Video Output	1.0 V[p-p]/75 Ω Composite video signal/Looping through (x8)
Video Output Front Panel	1.0 V[p-p]/75 Ω Composite video signal (x1)
Audio Output	-10 dB 600 Ω unbalanced, RCA standard jack (x1)
Audio Output Front Panel	-10 dB 600 Ω unbalanced, RCA standard jack (x1)
Spot Monitor Output	1.0 V[p-p]/75 Ω Composite video signal (x1)
Multiscreen Monitor Output	1.0 V[p-p]/75 Ω Composite video signal (x1)
Control Port	
Alarm/Remote Port	25-pin Full Pitch D-sub connector (x1)
	Alarm Input 1-8, Alarm Reset Input, EXT REC Input, Time Adjust Input, Sequence
	Input: Low-active, Non-voltage N.O. Contact, ≥100 ms
	Alarm Recovery Output 1, Disk End Status Output, Time Adjust Output,
	Warning Output, REC Status Output, Sequence Output: Low-active, Open-collector,
	24 V DC 100 mA max.
	Alarm Output 1, Play Status Output: Low-active, Open-collector,
	12 V DC 100 mA max.
	Alarm Output 2: High-active, 12 V 4.7 kΩ
	Alarm Recovery Output 2: High-active, 12 V DC 220 Ω
RS-485 (PS • Data)	6-conductor modular jack (RJ-11)
RS-232C	9-pin D-sub connector
10/100BASE-TX Port	10Base-T and 100Base-TX, 8-conductor modular jack (RJ-45)
	Protocol Installed: TCP/IP, HTTP, FTP, SMTP, SNMP, DNS, DDNS
	Security: Password-protected
Hard Disk Drive	
Built-in	320GB (160GB x 2), or 160GB x 1

STANDARD PRODUCT CONFIGURATIONS

WJ-HD220/32	WJ-HD220/16
8-channel camera inputs	8-channel camera inputs
• 320GB HDD	160GB HDD, and 1 drive bay for optional HDD unit
Built-in Ethernet port	Built-in Ethernet port

Trademarks • Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation in the U.S. and/or other countries.

APPEARANCE



OPTIONAL COMPONENTS & ACCESSORIES



Important – Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network
- All photographs and menus are simulated and shown for the purpose of explanation. Actual images may differ.
- Weights and dimensions are approximate. Specifications are subject to change without notice. These products may be subject to export control regulations.

DISTRIBUTED BY:

Panasonic System Solutions Company Matsushita Electric Industrial Co.,Ltd. 4-3-1,Tsunashima-higashi, Kohoku-ku, Yokohama,

223-8639, Japan Tel 81(0)45-540-5769 Fax 81(0)45-540-5773

URL http://panasonic.co.jp/pss/cctv/en/index.html



Panasonic is the brandname of Matsushita Electric.

Printed in Japan WJ-JKHD220C(2N-729A)