# Panasonic ideas for life

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16ch Real-time H.264 Digital Disk Recorder

**WJ-HD716** 

16ch H.264 Digital Disk Recorder

**WJ-HD616** 

Preliminary

**High Picture Quality** 

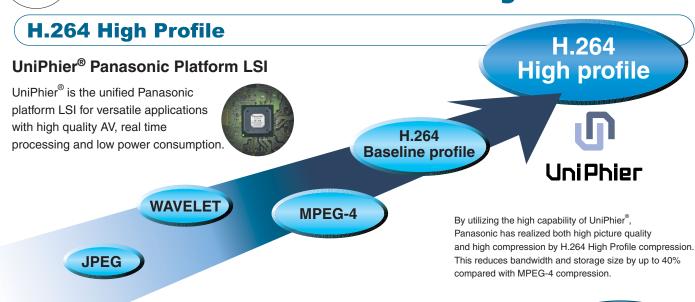




Digital Disk Recorder

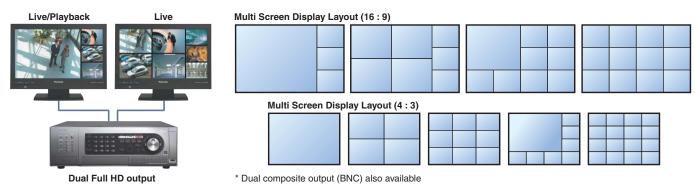
WJ-HD716/616

# **Excellent Picture Quality**



Dual Full HD 1080i (1,920 x 1,080) display output for both Live and Live/Playback is possible. Real-time images of up to 960 ips (NTSC) / 800 ips (PAL) at 16ch on 2 monitors can be displayed.

Full HD 1080i with multidisplay capability



### **Real-time Recording**

Up to 12.5 ips/ch (Field), 6.25 ips/ch (Frame): PAL

**WJ-HD716** 

Field: 480/400 ips = 16ch Real-time recording (NTSC/PAL) Frame: 240/200 ips = 8ch Real-time recording (NTSC/PAL)

\* WJ-HD616 features Field 240/200 ips and Frame 120/100 ips (NTSC/PAL) Up to 15 ips/ch (Field), 7.5 ips/ch (Frame): NTSC

# Intelligent System with SD5 Camera

Disk Saving and Easy Search with i-VMD (intelligent-Video Motion Detection) alarm of "SD5" camera



#### WV-CP500 Series



WV-CW500 Series

FULHD

with alarm event tag



Benefit 2 Easy Search By multiple alarm events

 Object Removal/Left Behind Duration, Direction

Scene Change



#### **i-VMD** (intelligent-Video Motion Detection)

This amazing new intelligence contributes to Superior Image of Super Dynamic 5. Plus, it offers efficient and reliable surveillance, preventing loss of vital scenes, and providing easy search and disk saving for recorder system.

#### **Video Motion Detection**

High resolution detection area and advanced motion analyze algorithm enables accurate motion detection. Stay detection and direction detection are also possible.

#### Conventional

shadow, waves are wrongly detected.



#### i-VMD

i-VMD learns back ground movements and only subjective movement can be detected.



**Object Detection** 

#### **Left Behind**

Removal

Abandoned object can be detected and indicated with the red frame to alert a malicious attempt.

Removed object in the specified area can be detected

and indicated with the red frame to alert a theft











# **Easy Operation**

- Basic concept of WJ-HD316A maintained
- User interface becomes easier than WJ-HD316A - "From Left to Right" easy-to-understand i-Pro like design

**Mouse Operation becomes available** for Operation and Setup

• Mouse port is featured in front panel



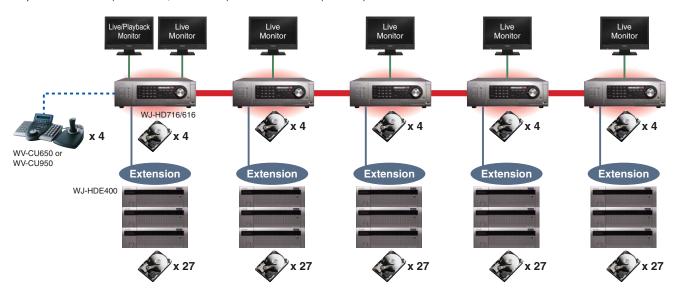


## **System Scalability and Flexibility**

Flexible system design is possible in accordance with various applications. Also, it can smoothly be migrated from 16ch Digital Disk Recorder, WJ-HD316A.

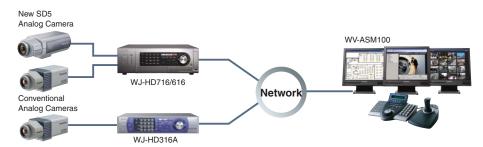
#### High Scalability with Cascade and HDD Extension

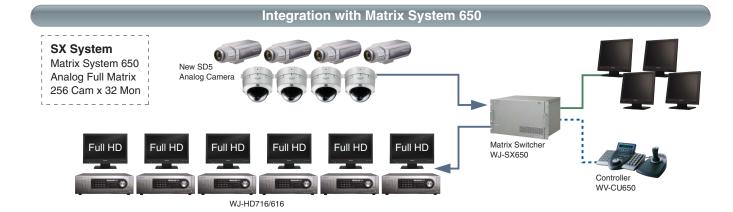
- Internal 4 HDDs (accessible from front side)
- High scalability with 5 main units → up to 80 camera inputs
- High scalability with main unit x 4 HDDs + 3 extension units x 9 HDDs → up to 155 HDDs total
- Up to 4 Controllers (WV-CU650, WV-CU950) can be connected (PS-Data)



#### Migration with WJ-HD316A

- WJ-HD316A can be easily replaced bv WJ-HD716/616
- WJ-HD316A and WJ-HD716/616 can be used in the same multi-site system





## **Outstanding Reliability**

- Embedded Real-time Operating System
- HDD Redundancy with RAID 5/6

### **Network Capability**

Basic performances have greatly improved and QVGA Live Output is possible even under narrow bandwidth while being independent from the setting of recording.

It can also be integrated with i-Pro equipments or 3rd party system with PS-API\*.

#### "QVGA" and "Frame/Field" Dual Resolutions for Network Stream

#### Image transfer @QVGA resolution is optimized for narrow network bandwidth

- Independent from recording
- Only for live monitoring
- Up to 15 ips (NTSC), 12.5 ips (PAL) /ch \*WJ-HD616 features up to 7.5 ips (NTSC), 6.3 ips (PAL) Image transfer @Frame/Field resolution is optimized for precise picture
- Dependent on recording setting
- For both live & playback



#### With Internet Explorer®

- Monitor Live Images
- Start/Stop REC manually Search and Play
- Recording Event
- Setup etc



#### WV-ASM100 i-Pro Management Software

WV-ASM100

- Monitor Live Images
- Start/Stop REC manually Search and Play
- Recording Event



#### Hybrid System with WV-ASM100 & i-Pro Products

#### Browsing from WV-ASM100

WJ-HD716/616

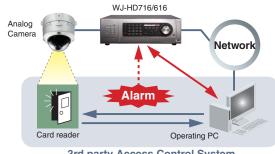
- Both live image and playback image from WJ-HD716/616 can be browsed at WV-ASM100
- i-Pro system can be added to the system and also can be browsed at WV-ASM100



#### System Integration with PS-API\*

#### **Example: Integration with Access Control System**

- WJ-HD716/616 start recording triggered by the alarm sent from card reader
- Both live image and playback image from WJ-HD716/616 can be browsed from Operation PC of Access Control System



3rd party Access Control System

PS-API is the SDK (Software Development Kit) which is provided to help to develop the application to control Panasonic video monitoring security products (Network cameras, Network Disk Recorders, Digital Disk Recorders, Network Interface Units) by the unified method and to get video image.

## **Easy Installation and Maintenance**

- Front accessible 4 HDD slots for easier maintenance without removing unit from the mount rack
- Front maintenance Ethernet port for easier maintenance without entering customer network

#### End to End Solution

To provide the highest picture quality for the best identification through total Panasonic system approach





Surveillance Assist

WJ-HD716/616



SD5 Link

- UnlPhler High Picture Quality
- Reliability

Storage

•SD5 Link

# Viewing **New Wide LCD Monitors** WV-LW1900 WV-LW2200

#### Full HD (1,920 x 1,080)

W-XGA (1,366 x 768)

#### Specifications

Specifications					
TV System		NTSC	PAL		
Audio /	Video Inputs	WJ-HD716:			
Video IF		16x 1.0 V [p-p] / 75 $\Omega$ composite video inputs (BNC)			
		6x multiplexed control data (1 ~ 16 CH)			
WJ-HI		NJ-HD616:			
		16x 1.0 V [p-p] / 75 Ω composite	nposite video inputs (BNC)		
		8x multiplexed control data (1 ~ 8 CH)			
Video Outputs 16x		16x 1.0 V [p-p] / 75 Ω composite video signal (BNC),			
		active loop through outputs			
		Monitor outputs:			
		2x HD, 2x 1.0 V [p-p] / 75 Ω composite video signal (BNC),			
·		Video output (front RCA):			
5.12			composite video signal		
	Audio Inputs	4x –10 dBv, 10 KΩ (RCA) (1 ~ 4 CH) Rear: 1x –10 dBv, 600 Ω Front: 1x –10 dBv, 600 Ω			
	Audio Outputs				
Audio /	Recording	H.264 (High profile)	H.264 (High profile)		
Video		Frame (720 x 480 pixels)	Frame (720 x 576 pixels)		
Format		Field (720 x 240 pixels)	Field (720 x 288 pixels)		
			*		
		QVGA (320 x 240 pixels): Recording independent			
		Field/Frame: Recording dependent			
Recording	Frame Rate Total	WJ-HD716:	WJ-HD716:		
			400 ips at Field, 200 ips at Frame		
		WJ-HD616:	WJ-HD616:		
Main Unit	0 0 1 1		200 ips at Field, 100 ips at Frame		
		Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mo			
Browser	Copy to External Media Supported Browser	DVD±R, SD (SDHC) Windows® Internet Explorer® 7.0			
GUI	Supported browser	(Microsoft® Windows Vista® Business 32 bit),			
GOI		Microsoft® Internet Explorer® 6.0 SP2			
		(Microsoft® Windows® XP Home/Professional SP2)			
		(INIICIOSOTE WITHOUSE AP HOME	erriolessional SF2)		

TV System		NTSC	PAL	
Network	Network Interface	10Base-T / 100Base-TX (RJ-45)	x1	
	Maintenance Interface	10Base-T / 100Base-TX (RJ-45) x1		
	No. of Client at a Time	8		
	User Registration	Up to 32 users		
Alarm /	Alarm Source	16x Terminal inputs, 16x Camera alarm, PS-Data		
Event				
External	Alarm	16x Alarm inputs (25 pin D-sub, Make contact, N.O./N.C.) 16x Alarm outputs (25 pin D-sub, Open collector, N.O./N.C)		
IF				
		1x Alarm reset input, 1x Alarm suspend input		
	EXT Storage	3x High speed serial interface. Only for WJ-HDE400 Extension Unit.		
	Recording	Emergency recording input, External recording mode input		
	Time Adjustment	Time adjustment input/output		
	Controls	Sequence switching signal input.		
		Power outage detection output, Shut down ready output		
	PS-Data (RS-485)	2x RS-485 (RJ-11) PS-Data compatible for control		
	Controller	from WV-CU650 or Matrix Switcher WJ-SX650		
	RS-485 Camera Interface	2x RS-485 (RJ-11), 2/4wire, half duplex, for 1 ~ 16 CH		
	Mouse	USB Mouse port (Front) x1		
	SD Slot	SD/SDHC Memory Card Slot (Front) x1		
HDD	Internal HDD	Up to 4x HDDs		
	Maximum HDD	31 HDDs (with 3x WJ-HDE400 extension units,		
		9x HDDs installed in each unit)		
	RAID	RAID5/RAID6 supported (with WJ-HDB601)		
General	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
Specifications	Ambient Operating	+5 °C ~ +45 °C (41 °F ~ 113 °F)		
	Temperature			
	Ambient Operating	Less than 85 %		
	Humidity	(without condensation)		
	Dimensions	430 mm (W) x 132 mm (H) x 400 mm (D)		
		(16-15/16" (W) x 5-3/16" (H) x 15-3/4" (D))		
		(excluding rubber feet and projections)		

#### **Optional Accessories**



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- UniPhier is a registered trademark of Panasonic Corporation.
   "Super Dynamic", "SDII", "SDIII", "SD5", "SD5Link" and "i-Pro" logos are trademarks or registered trademarks of Panasonic Corporation.
- 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.

- Weights and dimensions are approximate.
   Specifications are subject to change without notice.
- These products may be subject to export control regulations.

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