# Panasonic ideas for life

00100010110101

16ch Real-time H.264 Digital Disk Recorder

**WJ-HD716** 

16ch H.264 Digital Disk Recorder

**WJ-HD616** 

**Preliminary** 

**High Picture Quality** 

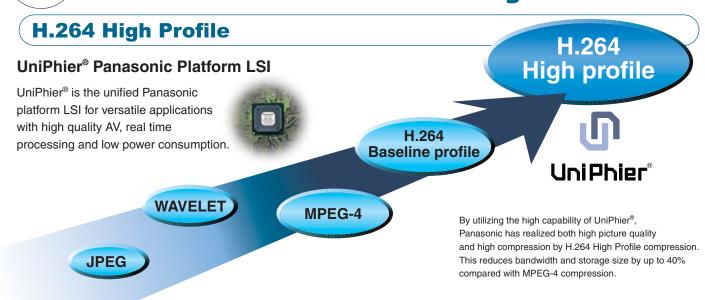




Digital Disk Recorder

WJ-HD716/616

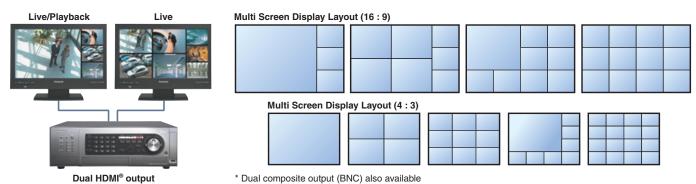
## **Excellent Picture Quality**



#### Full HD 1080i with multidisplay capability



Dual HDMI® 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.



### **Real-time Recording**

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



## **Intelligent System with SD5 Camera**

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





#### **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

Back ground movements such as tree, rain, shadow, waves are wrongly detected.



9 v 6 detection setup areas

#### i-VM

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







A person is leaving a bag behind.

The abandoned bag is detected and





son is approaching to the PCs.

The stolen PC is detected an

## **Easy Operation**

#### **Easy GUI**

- 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





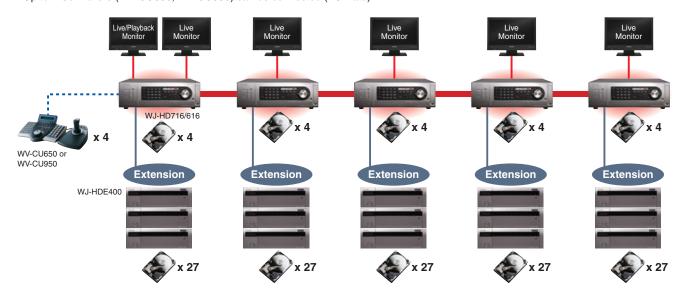


## **System Scalability and Flexibility**

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

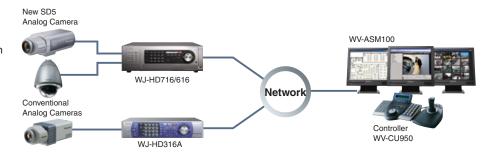
#### High Scalability with Cascade and HDD Extension

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



#### **Integration with Matrix System 650**



### **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

• Monitor Live Images

Search and Play

• Print etc

Recording Event

Start/Stop REC manually

• Save Recorded Images

Analog Camera

#### With Internet Explorer®

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



Analog Camera



SAMPLE

# 10Base-T

WV-ASM100 i-Pro Management Software

WV-ASM100

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

#### **Browsing from WV-ASM100**

- 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

- Storage WJ-HD716/616

Uni Phier®

SD5 Link

- High Picture Quality
- Reliability
- SD5 Link

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

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 Ω composite video inputs (BNC)			
		16x multiplexed control data (1 ~ 16 CH)			
		WJ-HD616:			
		16x 1.0 V [p-p] / 75 Ω composite video inputs (BNC)			
		x multiplexed control data (1 ~ 8 CH)			
	Video Outputs	16x 1.0 V [p-p] / 75 Ω composite video signal			
		active loop through outputs			
		Monitor outputs:			
			0 V [p-p] / 75 $\Omega$ composite video signal (BNC),		
		Video output (front RCA):			
		1x 1.0 V [p-p] / 75 Ω 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)		
Network H.264 (High profile)					
		QVGA (320 x 240 pixels): Reco	• .		
		Field/Frame: Recording dependent			
Recording	Frame Rate Total	WJ-HD716:	WJ-HD716:		
		1 1	400 ips at Field, 200 ips at Frame		
		WJ-HD616:	WJ-HD616:		
			200 ips at Field, 100 ips at Frame		
Main Unit		Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mode			
Functions	Multiscreen Mode	4/7/9/12/16 split screen display			
_	Copy to External Media	DVD±R, SD (SDHC)			
Browser	Supported Browser	Windows® Internet Explorer® 7.0			
GUI		(Microsoft® Windows Vista® Business 32 bit),			
		Microsoft® Internet Explorer® 6.0 SP2			
		(Microsoft® Windows® XP Home/Professional SP2)			

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.)		
IF		16x Alarm outputs (25 pin D-sub, Open collector, N.O./N.C)		
		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	Interface 2x RS-485 (RJ-11), 2/4wire, half duplex, for 1 ~ 1		
Mouse USB Mouse port (Fron		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**



#### Trademarks and registered trademarks

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.
- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries
   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.
- · All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
  These products may be subject to export control regulations.

#### **DISTRIBUTED BY:**

