Panasonic
ideas for life

The Comprehensive Digital Recording Solution

DIGITAL DISK RECORDERS
WJ-HD300
SERIES

The WJ-HD300 Series offers high quality pictures and disk saving recording utilizing a new compression technology.

Panasonic presents the new WJ-HD300 Series with a unique new system featuring a high compression ratio of 1/30 for practical use. Under the "All-in-One Solution" concept, all the vital recording components and features are condensed into one unit. With one single unit, unprecedented, highly reliable surveillance recording is possible in a wide range of applications. The WJ-HD300 Series also features System Scalability to meet extended user needs.

1/30 Super Compression: Proprietary Algorithm, Core Development of the WJ-HD300 Series

- New algorithm divides entire screen into high and low frequency elements to reduce artificial distortion and noise compared to conventional compression.
- In addition, the mode-A compression data calculation within four (4) field images (called "Temporal Transforms"), outputs data according to the amount of movement: "No Movement," "Slow Speed Movement," "Medium Speed Movement," and "High Speed Movement." Redundant data can be reduced through this compression process.
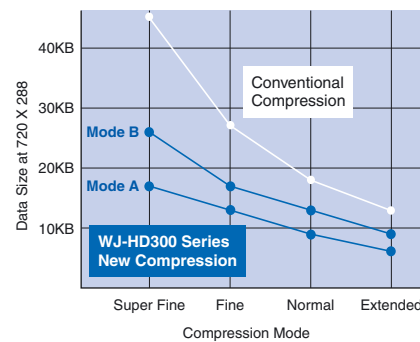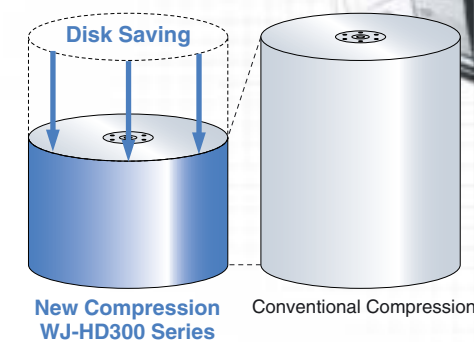
WJ-HD316

WJ-HD309

Picture Quality & Disk Saving

Compared to a conventional algorithm, the data compression ratio has improved approximately 1.5 ~ 2, depending on object and compression mode.

■ Data Size and Compression Mode

Data Size at 720 X 288

40KB
30KB
20KB
10KB

Conventional Compression

Mode B
Mode A

WJ-HD300 Series New Compression

Super Fine   Fine   Normal   Extended

Compression Mode

■ Comparison

Disk Saving

New Compression WJ-HD300 Series

Conventional Compression

All in One Solution

Instinctive Operation

Simple and instinctive, the functional base layout of the WJ-HD300 Series front panel is designed for ease-of-use. Eight (8)* directly connected Panasonic dome cameras can be controlled from the front panel. Also, the GUI based menu screen enables quick set up for flexible, more complex operations.
(* Six (6) cameras for the WJ-HD309)

OPERATION BASE LAYOUT

| STATUS | MON.OPERATION | RECORDER OPERATION | (OUTPUT) |

CAMERA PTZ, SEARCH & SETUP

GUI BASE MENU

Value Added Features

The WJ-HD300 Series is equipped with the latest value added features to satisfy your requirements such as system reliability, operation efficiency, and cost savings.

Features include:
- High-density recording: 50 ips* (100 ips* @SIF)
- Full rate live multi screen: 50 ips*
- Simultaneous Live/Rec./Playback/Network
- 16 independent recording profiles
- Disk partitioning: Normal, Alarm, and Copy
- RAID 5 and mirror redundant recording

- Advanced VMD (Video Motion Detector): Area, vector, and duration.
- Various Network Operations: Live, PTZ control, Recording, Playback, and Downloading
- Network and serial open architecture

(* ips = image per second)

*The above all photographs were taken for the purpose of explanation ; actual images may differ.

Superior surveillance made possible by state-of-the-art digital features.
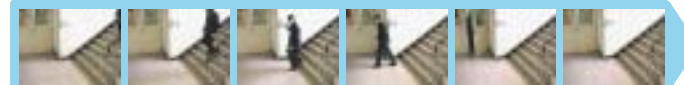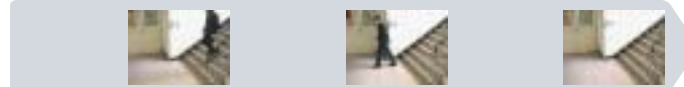
High-Refresh Rate Recording

High-speed digital processing enables high-refresh rate recording — to ensure critical moments are not missed.

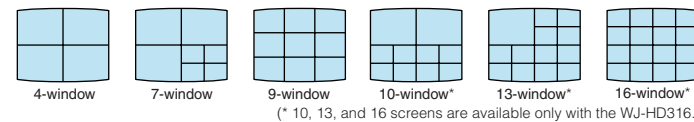|		
Max.	25	image per sec. @ 720 x 576 (FRAME/PAL)
Max.	50	image per sec. @ 720 x 288 (FIELD/PAL)
Max.	100	image per sec. @ 352 x 288 (SIF/PAL)

WJ-HD300 Series

Conventional

Full Rate Live Multi-Screen

Even when images from multiple cameras are displayed on a multi-screen, live monitoring can be achieved on all cameras at a full rate of 50 ips (image per second). Experience real-time, full surveillance with full-rate video images.

■ **Multi-screen in versatile variations**

4-window   7-window   9-window   10-window*   13-window*   16-window*

(* 10, 13, and 16 screens are available only with the WJ-HD316.)

16 Independent Recording Profiles

Flexible recording setup

Independent recording settings (recording mode/recording rate/picture quality) for each camera* enables flexible setup.
(*16 cameras for the WJ-HD316 and 9 cameras for the WJ-HD309.)

- **Recording mode:** Manual / Schedule / Event / Emergency
- **Recording rate:** Set the ips (image per second) as needed.
- **Picture quality:** Super Fine / Fine / Normal / Extended

User-friendly setup

The user friendly GUI supports easy and smooth setup while confirming current status graphically.

■ **GUI Setup Menu**

(ips = image per second)

Time Table

Recording Action PROG 1

Recording Program 1

■ **Resolution** FIELD
■ **Recording Table**
Manual REC 15 ips **Schedule REC** 15 ips **Event REC** 20 ips

	MANUAL		SCHEDULE		EVENT(PRE)			EVENT(POST)		
	RATE	QUALITY	RATE	QUALITY	RATE	QUALITY	TIME	RATE	QUALITY	TIME
CAM1	AUTO	EXA	1ips	EXA	1ips	FQB	5s	2ips	EXB	30s
CAM2	AUTO	NQA	1ips	NQA	1ips	FQB	5s	2ips	NQB	30s
CAM3	AUTO	FQA	1ips	FQA	1ips	FQB	5s	2ips	FQB	10s
CAM4	AUTO	SFA	1ips	SFA	1ips	SFB	5s	2ips	SFB	20s
CAM5	AUTO	NQA	1ips	EXA	1ips	EXB	5s	1ips	EXB	30s
CAM6	AUTO	FQA	1ips	NQA	1ips	NQB	5s	1ips	NQB	30s
CAM7	AUTO	SFA	1ips	FQA	1ips	FQB	5s	1ips	FQB	30s
CAM8	AUTO	SFA	1ips	NQA	1ips	SFB	5s	1ips	SFB	30s
CAM9	AUTO	EXA	OFF	—	1ips	EXB	5s	1ips	EXB	30s
CAM10	AUTO	NQA	OFF	—	1ips	NQB	5s	1ips	NQB	30s
CAM11	AUTO	FQA	OFF	—	1ips	FQB	5s	1ips	FQB	30s
CAM12	AUTO	SFA	OFF	—	1ips	SFB	5s	1ips	SFB	30s
CAM13	AUTO	EXA	1ips	EXA	1ips	SFB	5s	1ips	EXB	10s
CAM14	AUTO	NQA	1ips	NQA	1ips	FQB	5s	1ips	NQB	30s
CAM15	AUTO	FQA	1ips	FQA	1ips	FQB	5s	1ips	FQB	30s
CAM16	AUTO	SFA	1ips	SFA	1ips	SFB	5s	1ips	SFB	30s

OK   CANCEL

■ **Actual recording result (Example)**

Manual   Schedule   Event

	00:00		07:00
CAM1	1ips EXA	2ips EXB	1ips EXA
CAM2	1ips NQA	2ips NQB	1ips NQA
CAM3	1ips FQA	2ips FQB	1ips FQA
CAM4	1ips SFA	2ips SFB	1ips SFA
CAM5	1ips EXA	1ips NQA	1ips EXA
CAM6	1ips NQA	1ips FQA	1ips FQA
CAM7	1ips FQA	1ips SFA	1ips FQA
CAM8	1ips NQA	1ips SFA	1ips NQA
CAM9	1ips EXA	OFF	1ips EXA
CAM10	1ips NQA	OFF	1ips NQA
CAM11	1ips FQA	OFF	1ips FQA
CAM12	1ips SFA	OFF	1ips SFA
CAM13	1ips EXA	1ips EXB	1ips EXA
CAM14	1ips NQA	1ips NQB	1ips NQA
CAM15	1ips FQA		
CAM16	1ips SFA		

Instant Search and Playback

Filtered Search

Various parameters/filters such as time & date, camera channel, REC events, text and VMD enables instant search and playback from mass recorded data.

Filtered records

VMD   *REC Events   Text   Time & Date   Camera Channel
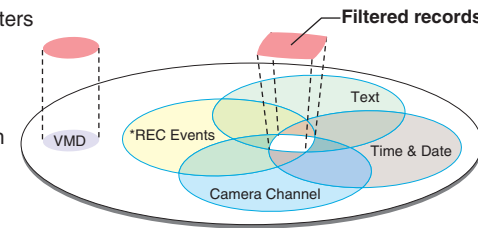
* REC Event filter

REC mode	Emergency, Event, Schedule, Manual
Alarm mode	VMD, Terminal, Command, Video loss

■ **Filtered Search (Example)**

Filtered records

Filter parameters
Time & Date   : 9:40–10:10
CAM Channel : CAM1 · CAM2 · CAM3 · CAM4
REC mode   : Event
Alarm mode : VMD · TRM · COM · LOSS

| CAM1	Manual	VMD	TRM
CAM2		COM	
CAM3		VMD	LOSS
CAM4		Manual	
CAM5	Manual	VMD	TRM

Thumbnail Display

In addition to search result by "list", "thumbnail" display is available for visual confirmation.

Time and date

Camera channel/Recording event   Number of listed data
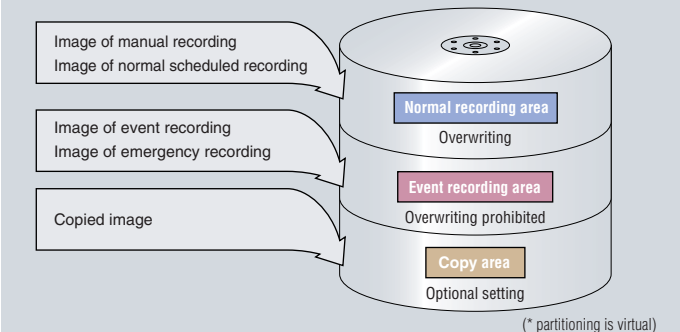
Live / Recording / Playback / Network Simultaneous Performance

By adopting high speed signal processing, live / recording / playback / network can be operated simultaneously.

Network

Recording

Playback image

Live images on a Multi-screen
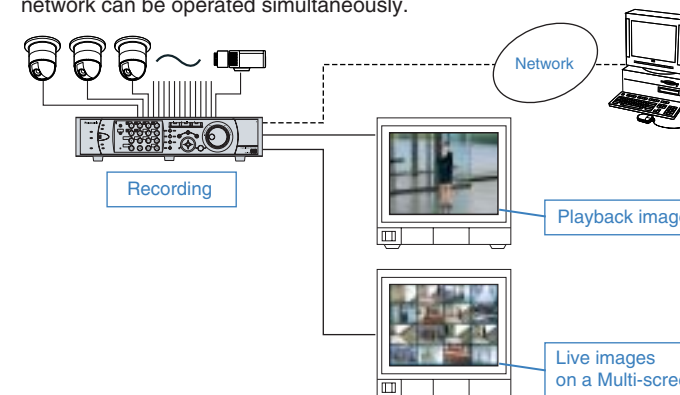
Disk Management

Hard Disk Partitioning Function* automatically selects the partition to be recorded.

The hard disk is divided into three partitions: "Normal Recording," "Event Recording," and "Copy." Image data is automatically recorded to the appropriate partition according to the recording mode. For the normal recording partition, the data is overwritten when the capacity is full. The event recording partition prohibits overwriting to protect data. Copy partition prepares data for retrieval to external medium.

Image of manual recording
Image of normal scheduled recording

Image of event recording
Image of emergency recording

Copied image

Normal recording area
Overwriting

Event recording area
Overwriting prohibited

Copy area
Optional setting

(* partitioning is virtual)

RAID5 / Mirroring Function

RAID5 distributes image data to multiple hard disks in the extension unit. Upon hard disk breakdown, lost data can be restored from other hard disks. When using one WJ-HD300 Series unit, mirroring function is available for data backup.
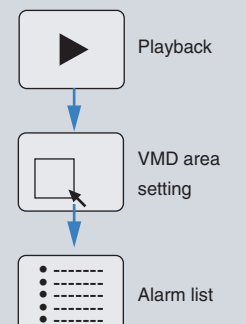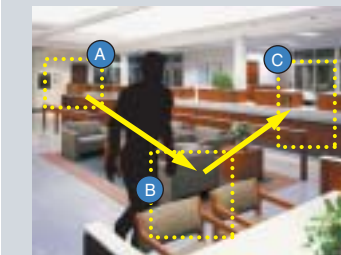
RAID Controller

WJ-HD300 Series

Restore

WJ-HDE300
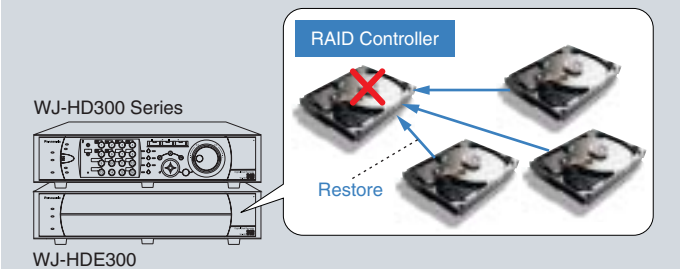
Advanced VMD

A new mode is added for sophisticated VMD detection.

DETECT VECTOR & DURATION

DETECT Ⓐ 5sec. Ⓑ 10sec. Ⓒ

Playback VMD

One VMD area can set one playback image for motion search.

Playback

VMD area setting

Alarm list

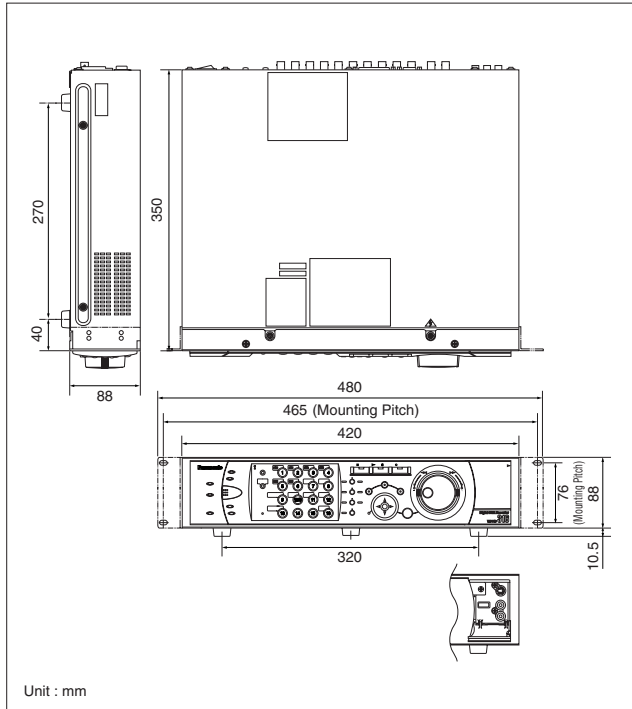*The above all photographs were taken for the purpose of explanation ; actual images may differ.

MAJOR OPERATING CONTROLS: WJ-HD316

Front View

Rear View

① Operate Indicator
② Alarm Suspension Indicator
③ Alarm Indicator
④ Alarm Reset Button
⑤ Error Indicator
⑥ Timer Indicator
⑦ HDD Access Indicators
⑧ Monitor Switch Button
⑨ Shift Button
⑩ Camera Selection Buttons
⑪ Pan, Tilt, Latest Recorded Image Playback Button
⑫ Zoom, Focus, A - B Repeat Button
⑬ Iris, Listing Button
⑭ Preset, Auto Pan Button
⑮ Stop Button
⑯ Play/Pause Button
⑰ Record Button
⑱ Slow Button
⑲ Search Button
⑳ Setup, Escape Button
㉑ Busy Indicator
㉒ Arrow Buttons
㉓ Set Button
㉔ Jog Dial
㉕ Shuttle Ring
㉖ Connectors Cover
㉗ Copy Port
㉘ S-Video Output Connector
㉙ Video Output Connector
㉚ Audio Output Connector

① Audio Input Connectors
② Audio Output Connector
③ Video Input Connectors
④ Video Output Connectors
⑤ Monitor Output Connector
⑥ Cascade In Connector
⑦ Serial Connector
⑧ Monitor Connector
⑨ Alarm Connector
⑩ Alarm/Control Connector
⑪ PS·Data Ports
⑫ Mode Switches
⑬ RS485 Ports
⑭ Network Port
⑮ Copy Port
⑯ Extra Storage Port
⑰ Power Switch
⑱ Signal Ground Terminal
⑲ Power Cord Inlet

DIMENSIONS: WJ-HD316

270
350
40
88
480
465 (Mounting Pitch)
420
76 (Mounting Pitch)
88
320
10.5

Unit : mm

SPECIFICATIONS: WJ-HD316 PAL

General	
Power Source	220 V - 240 V AC, 50 Hz
Power Consumption	85 W
Ambient Operating Temperature	+5°C - +45°C
Ambient Operating Humidity	Less than 90 %
Dimensions	420 mm (W) x 88 mm (H) x 350 mm (D) (excluding rubber feet and projections)
Weight	9.5 kg

Input/Output		
Video	Video Input Connectors	1 V [P-P] / 75 Ω, with auto termination loop-thru, vertical timing pulse multiplexed, x8 (1 to 8 CH) (BNC)
		1 V [P-P] / 75 Ω, with auto-termination loop-thru, x8 (9 to 16 CH) (BNC)
	Cascade Input Connector	1 V [P-P] / 75 Ω (BNC)
	Video Output Connectors	1 V [P-P] / 75 Ω, active loop-thru output, x8 (1 to 8 CH) (BNC)*1
		1 V [P-P] / 75 Ω, active loop-thru output, x8 (9 to 16 CH) (BNC)
	Monitor Output Connectors	1 V [P-P] / 75 Ω, x2 (BNC)
	Monitor Output Connector (VGA)	RGB output, x1 (15-pin D-sub)
	S-Video Output Connector	Y = 1 V [P-P] / 75 Ω, C = 0.3 V [P-P] / 75 Ω, x1 (S-video output connector)
	Video Output Connector (Front Panel)	1 V [P-P] / 75 Ω, x1 (RCA pin)
Audio	Audio Input Connectors	–10 dB, 10 KΩ, x4 (RCA pin)
	Audio Output Connectors	–10 dB, 600 Ω, unbalanced, x2 (RCA pin)
Others	Expansion Connector	High-speed serial interface, 480 Mbps (theoretical value), x1
	Copy Connectors	High-speed serial interface, 480 Mbps (theoretical value), x2
	Control Connectors	Emergency recording input*2, additional space warning output*3 (for devices connected to copy connectors), HDD trouble output*3, camera trouble output*3, trouble output*3, electricity failure recovery completion output*4, time adjust input/output*5, sequence switching input/output*5, electricity failure detection input*2, external recording mode switching*2 (25-pin D-sub), +5 V output*7
	Alarm Port	1 to 8 CH alarm input*6, 1 to 16 CH alarm input*2, 1 to 16 alarm output*3, alarm recovery input*2, alarm suspension input*5 (25-pin D-sub)
	RS-485 Ports	RS-485 (full duplex/half duplex*8), x2 (RJ-11)
	DATA Ports	RS-485, x2 (RJ-11)
	SERIAL Connector	RS-232C, x1 (9-pin D-sub)
	Ethernet Port	10 Base-T/100 Base-TX (RJ-45)

*1. When power is not supplied, video output signal was not sent from the unit even if video input signal is supplied.
*2. Non-voltage N.O. Contact, 100 mA, +5 V pull-up *3. Open collector output, maximum under conditions of 24 V DC and 100 mA or less *4. High (+12 V, 6.3 mA) *5. 30 KΩ, 5 V pull-up, –100 mA, N.O. Contact *6. 5 V pull-up, –100 mA, Non-voltage N.O. Contact input *7. 240 mA at maximum *8. Changeable with the mode switch

DISK DATA REFERENCE CHART

• PAL colour video signal • Recording images from a single camera channel • 160GB HDD • Auto mode • Manual recording • Audio OFF

COLOUR FINE — Field Mode (Sampling Pixel Size: 720 x 288)

One Camera ch (ips*)	SFB	FQB	NQB	EXB
0.1	9,530	14,300	19,070	28,610
0.5	1,900	2,860	3,810	5,720
1	950	1,430	1,900	2,860
5	190	280	380	570
6.3	150	220	300	450
12.5	70	110	150	220
25	30	50	70	110
50	10	20	30	50

*ips (image per second) (Hours)

COLOUR STD — Field Mode (Sampling Pixel Size: 720 x 288)

One Camera ch (ips*)	SFB	FQB	NQB	EXB
0.1	12,710	19,070	25,430	38,150
0.5	2,540	3,810	5,080	7,630
1	1,270	1,900	2,540	3,810
5	250	380	500	760
6.3	200	300	400	600
12.5	100	150	200	300
25	50	70	100	150
50	20	30	50	70

*ips (image per second) (Hours)

COLOUR FINE — SIF Mode (Sampling Pixel Size: 352 x 288)

One Camera ch (ips*)	SFB	FQB	NQB	EXB
0.1	19,070	28,610	38,150	57,220
0.5	3,810	5,720	7,630	11,440
1	1,900	2,860	3,810	5,720
5	380	570	760	1,140
6.3	300	450	600	900
12.5	150	220	300	450
25	70	110	150	220
50	30	50	70	110

*ips (image per second) (Hours)

COLOUR STD — SIF Mode (Sampling Pixel Size: 352 x 288)

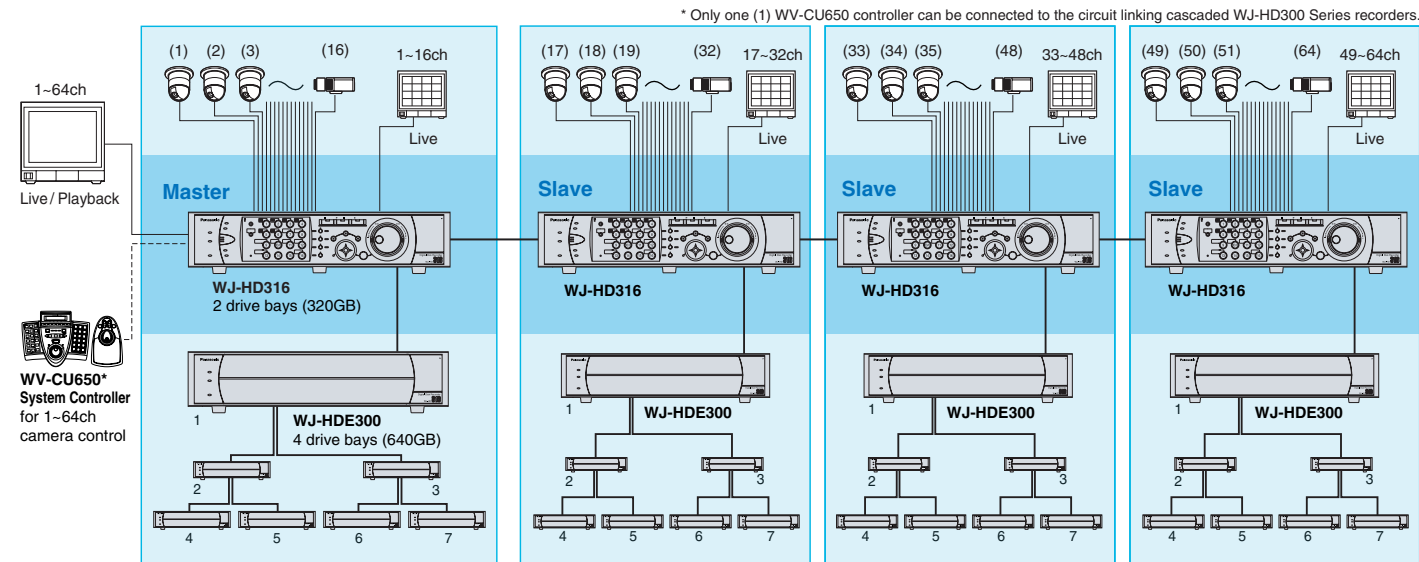| One Camera ch (ips*)	SFB	FQB	NQB	EXB
0.1	25,430	38,150	50,860	76,300
0.5	5,080	7,630	10,170	15,260
1	2,540	3,810	5,080	7,630
5	500	760	1,010	1,520
6.3	400	600	800	1,210
12.5	200	300	400	610
25	100	150	200	300
50	50	70	100	150

*ips (image per second) (Hours)

(above figures are approximate, actual recording time may differ depending on picture imaging under the conditions)   *The above all photographs were taken for the purpose of explanation ; actual images may differ. 7

System Scalability:

Viewing cascade connection (up to 4 main units)
Up to four (4) WJ-HD316 units can be cascaded to increase maximum 64 video inputs. All 64 cameras can be switched and viewed in live and playback from the master, while each slave unit has its own live viewing monitor.

* Only one (1) WV-CU650 controller can be connected to the circuit linking cascaded WJ-HD300 Series recorders.

Expandable to 4.8 Terabytes (TB)
In addition to a total 320 GB capacity of the main unit WJ-HD316/309, one WJ-HDE300 extension unit provides up to 640 GB. With seven (7) extension units, the maximum capacity can be extended up to 4.8 TB to satisfy long recording requirements.

Built-In Network Interface:

Network functions include live image monitoring through multi-screen display, camera PTZ control, recording/search/playback, downloading image/log data, e-mail notification, and setup data upload/download.

WJ-HD300 Series — 10Base-T/100Base-TX — Network — PC
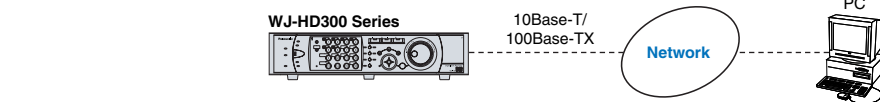
Network Operating Menu

Control Tab
The switcher function for live monitoring is operable.

Setup Tab
Setup of WJ-HD300 Series can be performed.
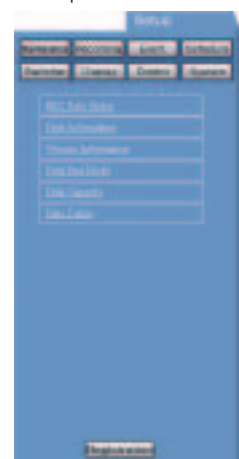
Cam Tab Remote control the camera selected on control tab page. (Only for 1-8ch Panasonic PTZ dome cameras)

HDD Tab Operation for recorded images such as playback or downloading (saving) to PC.

System Controller
WV-CU650
The Surveillance Cockpit for Total Control of the WJ-HD300 Series

MAJOR OPERATING CONTROLS

KEY FEATURES

• **Controller for the WJ-HD300 Series of Digital Disk Recorders**

Integrated System Control

Camera Control
• Detached joystick controls Pan/Tilt and Zoom, allowing seamless tracking.
• Larger numeric keypad provides direct access to cameras.

Recorder Control
• Jog Dial and Shuttle Ring for smoother control
• Dedicated Record, Play, and Search buttons

Switcher Control
• Image switching and sequencing buttons for Matrix System150

Easy to Operate While Focused on Surveillance

Universal Design for Right or Left Hand Use
• Detached joystick pad
• Layout with Jog Dial and Shuttle Ring in centre

More Comfortable Extended Surveillance
• Soft padding on joystick
• Adjustable joystick height for large or small hands
• Designed with a low centre of gravity and adjustable angle to minimize strain

Instinctive Operation
• Cockpit style button layout

System Management Capability
• User level management for registered users
• User assignable buttons: four in main unit plus three in palm rest
• Setup data can be transferred via RS485 to another WV-CU650.

SPECIFICATIONS [PAL] (for WJ-HD300 Series)

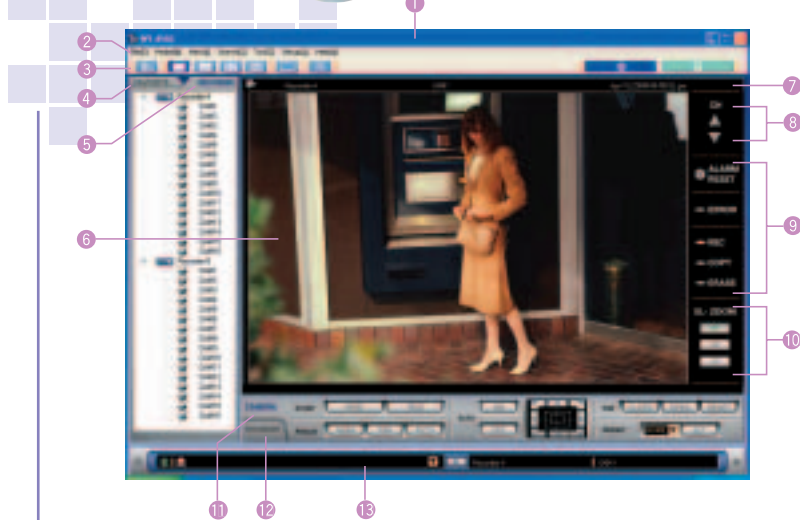|	
Power Source	9 V DC, 300 mA (using the supplied AC adapter)
Power Source (supplied AC adapter)	230 V AC, 50 Hz, 150 mA
Data Output/Input Port	6-conductor modular jack (RS-485, Full duplex) x2
Serial Port	9-pin D-sub connector
Controller Number	1 to 8 (rotary switch)
Ambient Operating Temperature	–10°C to +50°C
Unit Number Selection	Up to 16 (PS-Data)
Monitor Number Selection	1 to 2
Camera Number Selection	1 to 256 (up to 16 WJ-HD316)
Dimensions (W x H x D)	Main Unit: 290 x 111 x 221 mm
	3D Joystick Unit: 134 x 146 x 218 mm
Weight (without the AC adapter)	Main Unit: 1.3 kg
	3D Joystick Unit: 0.8 kg

DIMENSIONS
Unit : mm

Disk Recorder Management Software
WV-AS60
The Software for Integrated Management of Up to 100 WJ-HD300 Series

Main Application

Network mode
WV-AS60 operates the WJ-HD300 Series of Digital Disk Recorders remotely via the network.
• Facilitates monitoring live images captured by cameras connected to the recorder and camera operation.
• Makes possible the recording, search and playback of recorded images from multiple recorders.

Local mode
WV-AS60 facilitates search, playback and management of image files downloaded on PC hard disk.

Downloader
WV-AS60 downloads images recorded on the disk recorder.

Displays four patterns (1, 4, 9, 16 screens) of recorded live images or playback images.

Full screen / 4-split screen / 9-split screen / 16-split screen

① Title Bar ② Menu Bar ③ Tool Bar ④ FAVORITE Tab ⑤ RECORDER Tab ⑥ Image Display Area ⑦ Information Display Area ⑧ Channel Search Buttons ⑨ Recorder Status Display Area ⑩ Electronic Zoom Operation Area ⑪ Camera Control Panel ⑫ Recorder Control Panel ⑬ Status Bar

SYSTEM DIAGRAM

NETWORK

WJ-HD316 ... up to 100
WV-AS60   WV-AS60   WV-AS60 ... up to 32 user registration

Main unit operation
There are a variety of operations that can be performed with the disk recorder alone: manually starting and stopping the recording, text attachment to recorded image, recorder log display, and data copying.

Three search functions
Three types of search functions are installed: recorded event search, playback VMD search, and marking search. A number of recorders can be searched simultaneously and required images can be retrieved quickly.

SPECIFICATIONS [PAL]

WJ-HD300 Series Registration Capacity	up to 100 sets
User Registration Capacity	up to 32 users
User Types	5 types
Schedule Registration Capacity	up to 400 schedules
Favorite Registration Capacity	up to 500
Simultaneous Downloads	up to 10 accesses
Simultaneous Camera Image Displays	up to 16 cameras
Simultaneous File Playbacks	up to 4 files

*In the case of several WJ-HD300 Series software, use a PC in which 4 WV-AS60 are installed for simultaneous access to 1 recorder. (Simultaneous access control depends on the recorder.)

OPERATING ENVIRONMENT
This PC software can be installed in PCs with the following environments

OS	Microsoft® Windows® 2000 Professional SP4
	Microsoft® Windows® XP Professional or Home Edition SP1
Computer	IBM PC / AT Compatible
CPU	Pentium® 4, 1.4 GHz or above
Memory	512MB or above
Hard Disk Capacity	About 40MB level is required for application installation.*
	1024 x 768 pixel resolution level or above, HIGH colour 16 bits or above
	(Full-colour environment is recommended)
Interface	10 / 100Mbps network interface card installed
Web Browser	Microsoft® Internet Explorer 6.0 SP1

*It is necessary to prepare space to receive files from the recorder that is separate from the application installation.

*Trademark and registered trademark
• Microsoft®, Windows® are registered trademarks of U.S. Microsoft Corporation or the corresponding Microsoft Corporation of another country.
• Intel® and Pentium® are registered trademarks or trademarks of Intel Corporation of the U.S. or the corresponding Intel Corporation of another country and subsidiary companies.
• Adobe®, Adobe logo, and Acrobat®, are trademarks of Adobe Systems Incorporated (Adobe Systems Co.).
• Other company names and product names are trademarks or registered trademarks of the respective companies.

*The above all photographs were taken for the purpose of explanation ; actual images may differ.

STANDARD PRODUCT CONFIGURATIONS

Digital Disk Recorders
WJ-HD316 (16ch)
WJ-HD309 (9ch)

- Built-in 160GB HDD unit, and 1 drive bay for optional HDD unit
- Built-in an Ethernet port

OPTIONAL COMPONENTS & ACCESSORIES

Extension Unit
WJ-HDE300
(4 drive bays for optional HDD units)

System Controllers
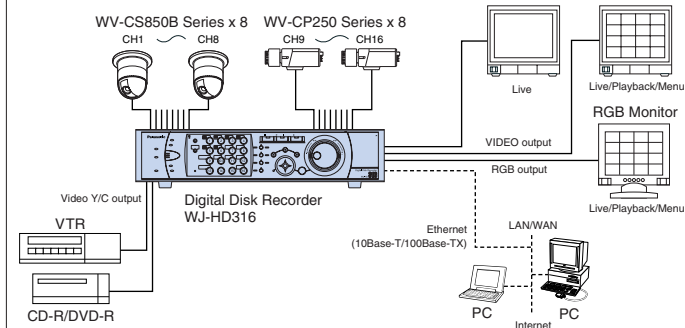**WV-CU360CJ**

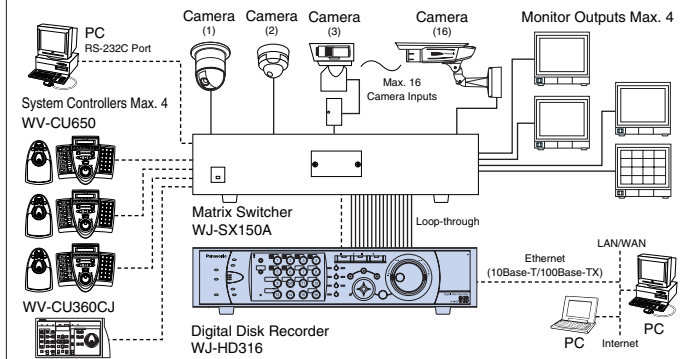**WV-CU650**

Disk Recorder Management Software
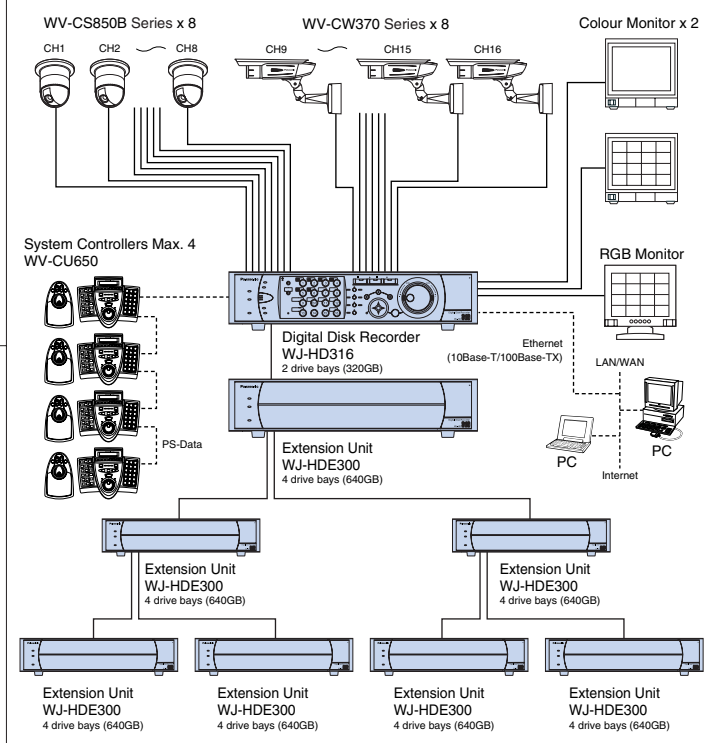**WV-AS60**

SYSTEM EXAMPLES

1 Basic System Configurations

2 With optional Panasonic Matrix System 150

3 Up to 4.8TB Capabilities with Optional Extension Unit & HDDs

OPTIONAL SURVEILLANCE EQUIPMENTS

COLOUR SURVEILLANCE CAMERAS

Weather Proof & Vandal Resistant
Colour Dome Cameras
WV-CW860A Series

Super Dynamic II
Colour Dome Cameras
WV-CS850B Series

Weather Proof
Super Dynamic II Colour Cameras
WV-CW370 Series

Vandal Proof
Super Dynamic II Colour Cameras
WV-CW470A Series

Colour Dome Camera
WV-CF224

1/2-type CCD
Colour Surveillance Cameras
WV-CL920A Series
(Lens: option)

Super Dynamic II
Colour Surveillance Cameras
WV-CP470 Series
(Lens: option)

Compact Colour
Surveillance Cameras
WV-CP250 Series
(Lens: option)

1/3-type DSP
Colour CCD Cameras
WV-CP240 Series
(Lens: option)

MATRIX SYSTEM 150

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