Panasonic introduces the Super Dynamic III Series, the first surveillance cameras able to think and act on their own. They detect both external changes and attempts at interference and take the precise action required to prevent loss of vital scenes.

Superb image quality, the result of unprecedented image-processing performance, delivers a true picture needed for rock-solid identification. With their extraordinary intelligence and active foresight, Super Dynamic III Series cameras bring amazing reality to 24-hour surveillance.

The Leading Original Technologies Behind Super Dynamic III

Pixel Based 128x Dynamic Range

The double speed CCD outputs a 1/8,000 second short signal to capture the bright area of the image and a 1/60 second long signal to capture the shaded area. The enhanced DSP combines these signals to provide a dynamic range 128 times greater than a standard video camera. Also newly developed in the DSP is “Area Free (Pixel Based) Natural Contrast Image Correction”, which optimizes the gray-scale image in response to the Input Signal Level of each individual Pixel. The Pixel Based 128x Dynamic Range delivers a smoother natural reproduction of high contrast images, e.g. heavy backlight conditions, regardless of object position, size, shape, or number.

Auto Back Focus (ABF)

When switching from color to B/W mode, the WV-CP480 Series automatically adjusts the CCD position to achieve the return to perfect focus. Blurring caused in previous cameras by removing the IR cut filter is eliminated. Then, when the camera switches back from B/W to color mode, the CCD automatically returns to the correct position for color imaging, ensuring perfect focus 24 hours, both night and day. Another important benefit of Auto Back Focus is eliminating the time and labor required to adjust focus after cameras have been installed. Focus can be roughly set when a camera is installed, then adjusted using the optional system controller.

Intelligent Processing

Our newly developed DSP extracts Motion Vector, Motion Area, Edge/Frame Difference and Image Sampling data from the image and sends that data to the new Image Analysis Algorithm. The Algorithm is embodied in the proprietary microprocessor that performs the complex processing required by Super Dynamic III’s amazing intelligent functions.

● Video Process in DSP

Original Image

Mot. Area/Mot. Area

Original Image

Mot. Area/Frame Detection

Image Sampling

Auto Back Focus

Super Dynamic III — Exceeding the human eye.

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.
Super Dynamic III — Exceeding the human eye.

Panasonic introduces the Super Dynamic III Series, the first surveillance cameras able to think and act on their own. They detect both external changes and attempts at interference and take the precise action required to prevent loss of vital scenes. Superb image quality, the result of unprecedented image-processing performance, delivers a true picture needed for rock-solid identification. With their extraordinary intelligence and active foresight, Super Dynamic III Series cameras bring amazing reality to 24-hour surveillance.

SEES REALITY

Cameras now provide a true picture for all surveillance purposes

THinks actively

Cameras now think — and act — preventing loss of vital scenes

The Leading Original Technologies Behind Super Dynamic III

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Reliability/Dispersion Decision

Super Dynamic III detects the Input Signal Level for each individual Pixel, optimizes gray-scale image per each level and provides natural reproduction of the object in any area of the image.

Signal Level

- Dark
- Medium Dark
- Medium Bright
- Bright

Super Dynamic III Output

Lighting Level

- Bright Area
- Medium Bright Area
- Medium Dark Area
- Dark Area

Mixed Signal

- Light level
- Light level
- Light level
- Light level

Area Free Natural Contrast Image Correction

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.

Intelligent Processing

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Video Process in DSP

- Motion Vector
- Motion Area
- Edge/Frame Detection
- Image Sampling

Software Process

- Motion Vector/Motion Area
- High-Area Image Detection
- Integration/Limitation of Motion
- Electronic Zoom Corporation
- Compare between Stable Scenes
- Auto Image Stabilizer
- Scene Change Detection
- Auto Tracking

The Leading Original Technologies Behind Super Dynamic III.

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.
Super Dynamic

to show you reality clearly, Super Dynamic is the definitive picture you need for accurate identification.

- Super Dynamic

for ATMs, building entrances, and other situations where contrast is a critical issue.

- Super Fine Pan Control

for the background camera movement-generated streaking. Now the headaches of moving camera use does not occur unless there is the presence of light, and the background camera is always sharply in focus.

- Auto Image Stabilizer

for high winds. Cameras attached to poles may also be affected by high winds. Auto Image Stabilizer can prevent blur under these conditions.

- Auto Focus

when changing from color to B/W mode, optimizing the back focus required for clear, sharp images. In WV-CP480 Series, Auto Back Focus automatically adjusts the camera's operation has also been hampered with, such as a camera lens, defocus, blockage of the image may be hampered by vibration from aircraft, trains or large trucks. Auto Image Stabilizer can prevent blur under these conditions.

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To show you reality clearly, Super Dynamic III cameras take image processing to new peaks, with all the contrast, detail and color of reality itself, even in dimly lit situations. This breakthrough in visual surveillance delivers the picture's smallest detail. Images with 570 lines of horizontal resolution, revealing changes depending on time, weather and season. For ATM's, building entrances, and other situations where contrast is vital, a 128x Dynamic Range that makes it the perfect surveillance solution. Combine with 1/8,000 sec. shutter speed signals gives this amazing system the ability to capture moving subjects in every area and position. Combining 1/8,000 sec. shutter speed with our newly developed Digital Signal Processing (DSP) Color Circuitry for the background corrects movement-generated streaking. Now even the headaches of moving cars can be seen clearly, unmarred by the streaks of headlights of moving cars can be seen clearly, unmarred by the streaks of lights (parasitic color) or 0.04 lux (0.004 fc, B/W). When equipped with the optional F1.2 lens, the WV-CP480 Series deliver clear, sharp images in lighting as low as 0.5 lux (0.05 fc, B/W). WV-CW964/WV-CS954 can be used in lighting as low as 0.5 lux (0.05 fc, B/W). WV-CW964/WV-CS954 can be used in lighting as low as 0.5 lux (0.05 fc, B/W). WV-CW964/WV-CS954 can be used in lighting as low as 0.5 lux (0.05 fc, B/W). WV-CW964/WV-CS954 can be used in lighting as low as 0.5 lux (0.05 fc, B/W).

To ensure that what you see is the full range of natural color, Super Dynamic III uses Area Free (Pixel Based) Natural Contrast. To confront changing environments or attempts at interference, these cameras think ahead. Super Dynamic III offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications.

**Sees Reality**

**Confronted with changing environments or attempts at interference, these cameras think ahead.**
To show you reality clearly, Super Dynamic delivers the definitive picture you need for accurate identification.

The WV-CW964/WV-CS954 come equipped with a 30x optical zoom lens. 30x Optical Zoom (Up to 300x with Digital Zoom)

With its built-in Digital Image Stabilizer, the WV-CW964/WV-CS954 can be used in lighting as low as 0.5 lux (0.05 fc, color) or 0.06 lux (0.006 fc, B/W).

The combination of 2D DNR processing for the moving subject with 3D DNR for the background corrects movement-generated streaking. Now even the headlights of moving cars can be seen clearly, unmarred by the streaks of light produced by previous 3D DNR subject-image processing.

The WV-CW964/WV-CS954 are all equipped with Auto Focus, ensuring that what you see is always sharply in focus. Auto Focus

In WV-CW964/WV-CS954 cameras, the ABF feature automatically adjusts the CCD position when changing from color to B/W mode, optimizing the back focus required for clear, high-quality images. This feature offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications.

To ensure that what you see is the full range of natural color, our newly developed and optimized color circuitry in our newly developed DSP processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.

Pixel Based 128x Dynamic Range faithfully reproduces every subject.

Super Fine Pan Control

This feature automatically follows the largest movement in the image, causing the camera to pan and tilt to keep the subject in the center of the image. Ideal for detecting intruders in vaults, pharmacies or other restricted areas. This feature automatically follows the largest movement in the image, causing the camera to pan and tilt to keep the subject in the center of the image. Ideal for detecting intruders in vaults, pharmacies or other restricted areas.

Auto Image Stabilizer

Scene Change Detection

With Auto Image Stabilizer, When the camera is installed on a pole or similar structure, it automatically follows the movement of the camera lens with cloth or paint.

Confronted with changing environments or attempts at interference, these cameras think for the background corrects movement-generated streaking. Now even the headlights of moving cars can be seen clearly, unmarred by the streaks of light produced by previous 3D DNR subject-image processing.

Super Fine Pan Control

Scene Change Detection

Auto Image Stabilizer

This feature automatically follows the largest movement in the image, causing the camera to pan and tilt to keep the subject in the center of the image. Ideal for detecting intruders in vaults, pharmacies or other restricted areas.
MAJOR OPERATING CONTROLS & TERMINALS

• For All-Weather Outdoor Use.
• MAJOR OPERATING CONTROLS & TERMINALS
  • 16 alphanumeric character display.
  • Four (4) alarm inputs and two (2) output terminals.
  • Scene Select Setting INDOOR (L)/INDOOR (H)/OUTDOOR (L)/OUTDOOR (H)
  • Cleaning ON/OFF
  • Privacy Zone ON/OFF (8 zone settings)

Super Dynamic

• Auto image stabilizer function for applications where vibration or wind is a concern.
  • Scene change detection alarms when lens is covered, spray painted, removed, defocused or camera angle is changed.

Language Setting

• English, German, French, Italian, Spanish, Russian, Chinese, or Japanese

WV-Q105

Embedded Ceiling Installation

• 30x optical zoom lens (3.8 -114 mm) plus 10x electronic digital zoom for total zoom ratio of 300x

Model No. WV-CS954

• Angular Field of View Horizontal: 1.9° (TELE) - 52° (WIDE)   Vertical: 1.4° (TELE) - 40° (WIDE)

Weight approx. 2.2 kg (4.84 lbs.)

Dimensions 154.5 mm (D) x 233 mm (H) (6-1/16" (D) x 9-3/16" (H))

Iris ALC (Adjustable OPEN/CLOSE output target level)/MANUAL

Scanning Frequencies Horizontal: 15.734 kHz, Vertical: 59.94 Hz

Minimum Illumination 0.5 lux (0.05 fc) at F1.2 (in Color)

Dynamic Range 52 dB typical (Super Dynamic in B/W mode; Sens. up: off, AGC: High)

Video Output 1.0 V [p-p] NTSC/EIA composite 75 Ω

Special Chroma, Aperture, Pedestal, HUE adjustable

Digital Noise Reduction High or Low

Sensitivity Enhancement OFF, x2AUTO, x4AUTO, x6AUTO, x10AUTO, x2FIX, x4FIX, x6FIX, x10FIX

Innovative Intelligent Features:
  • 16-alphanumeric character display.
  • Digital signal processing LSI’s for high quality picture:
    • 2H vertical enhancement, chroma averaging circuit,
    • Minimum of aliasing, knee circuit, and highlight aperture correction.

 mango pipe (for 24V AC)

 coaxial multiplex system, RS-485

 SPECIFICATIONS

• Electronic Sensitivity Enhancement 32x max. (AUTO or FIX)

• Shutter OFF (1/60), AUTO, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s

• Title (ID) ON, OFF (Preset ID, camera ID, area title: 16 alphanumeric characters)

• Controller Interface Coaxial Multiplex System, RS-485

• Focal Length 3.8 mm - 114 mm

• Water Resistance IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)

• Ambient Operating Temperature –40 °C - +50 °C (–40 °F - +122 °F)

• Minimum Illumination 0.5 lux (0.05 fc) (color mode)   0.04 lux (0.004 fc) (black and white mode)   SENS UP: OFF; AGC: HIGH

• Signal NTSC

• Effective Pixels 768 (H) x 494 (V)

• Pick-up Device 1/4-type (1/4”) interline transfer CCD

• Power Consumption 17 W (for camera), 62 W (for heater)

• Model No. WV-CS954

• Zoom Ratio 300x (30x optical zoom plus 10x electronic digital zoom)

• Tilting Speed*Manual: approx. 0.065°/s - 120°/s   8 steps, 16 steps, 64 steps   Preset: approx. 400°/s

• Dynamic Range 52 dB typical (Super Dynamic in B/W mode; Sens. up: off, AGC: High)

• Scanning Frequencies Horizontal: 15.734 kHz, Vertical: 59.94 Hz

• Minimum Illumination 0.5 lux (0.05 fc) at F1.2 (in Color)

• Dynamic Range 52 dB typical (Super Dynamic in B/W mode; Sens. up: off, AGC: High)

• Video Output 1.0 V [p-p] NTSC/EIA composite 75 Ω

• Special Chroma, Aperture, Pedestal, HUE adjustable

• Digital Noise Reduction High or Low

• Sensitivity Enhancement OFF, x2AUTO, x4AUTO, x6AUTO, x10AUTO, x2FIX, x4FIX, x6FIX, x10FIX

• Innovative Intelligent Features:
  • 16-alphanumeric character display.
  • Digital signal processing LSI’s for high quality picture:
    • 2H vertical enhancement, chroma averaging circuit,
    • Minimum of aliasing, knee circuit, and highlight aperture correction.

MAJOR OPERATING CONTROLS & TERMINALS

• Image Hold ON/OFF

• Privacy Zone ON/OFF (8 zone settings)

• Super Dynamic

• Digital Flip ON/OFF

• Auto Mode OFF, SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK

• Auto Iris Lens Connector

• Camera Mounting Adapter

• Set Button / MENU

• 30x Optical Zoom. Auto Tracking. 256 Presets.

• Mirror ON or OFF

• Digital Output 1.0 V [p-p] NTSC/EIA composite 75 Ω

• Video Output Connector

• Video Output Connector (for RJ-12)

• Output Connector

• Output Connector

• Power Connector (for 24V AC)

• Power Connector (for RJ-12)

• Power Input Terminal (WV-CP484)

• 120VAC 60Hz

• NEAR

• NIGHT

• GND

• OUT

• IN

• POWER

• NEAR

• NIGHT

• GND

• OUT

• IN

• POWER

• NEAR

• NIGHT

• GND

• OUT

• IN

• POWER

• NEAR

• NIGHT

• GND

• OUT

• IN

• POWER

• NEAR

• NIGHT

• GND

• OUT

• IN

• POWER
For All-Weather Outdoor Use.

- FHD (2880 x 1920) sensor to achieve higher resolution compared to WV-Q105.
- Built-in sun shield permits camera locations in direct sunlight.
- Innovative intelligent features:
  - Built-in sun shield permits camera locations in direct sunlight.
  - Built-in fan/heater for temperature changes of -40°C ~ +50°C (-40°F ~ +122°F).

### MAJOR OPERATING CONTROLS & TERMINALS

- **Auto Image Stabilizer Function**
  - For applications where vibration or wind is a concern, e.g. passing vehicles.
- **Scene Change Detection**
  - Alarms when lens is covered, spray painted, removed, defocused or camera angle is changed.
- **30x Optical Zoom Lens (3.8 -114 mm) Plus 10x Electronic Digital Zoom**
  - Total zoom capacity of 300x for restricted areas and after hour applications.
- **30x Optical Zoom, Auto Tracking, 256 Presets.**
  - 30x optical zoom lens (3.8 -114 mm) plus 10x electronic digital zoom for total zoom capacity of 300x.
- **Auto Zoom Function**
  - Auto zoom function to maintain focus on subject.
- **Privacy Zone Masking Function.**
- **Auto Focus Manual/Auto (PAN, TILT, ZOOM linked)**
- **Auto Focus Fine Tuning**
  - Focus fine tuning (up-the-coax or via network by WJ-HD300 Series) after installation.
- **16 Alphanumeric Character Display.**
- **Innovative Intelligent Features:**
  - Built-in sun shield permits camera locations in direct sunlight.
  - Built-in fan/heater for temperature changes of -40°C ~ +50°C (-40°F ~ +122°F).

### SPECIFICATIONS

- **Ambient Operating Temperature:**
  - –10 °C - +50 °C (14 °F - 122 °F)
- **Power Consumption:**
  - 12 V DC, 410 mA
- **Operational Range:**
  - Horizontal: 1.9° (TELE) - 52° (WIDE)
  - Vertical: 1.4° (TELE) - 40° (WIDE)
- **Maximum Aperture Ratio:**
  - 1:1.4 (WIDE) - 3.7 (TELE)
- **Focal Length:**
  - 3.8 mm - 114 mm
- **Iris Range:**
  - F1.4 - 22, Close
- **Object Distance:**
  - 1.5 m
- **Zoom:**
  - Manual, manual position, sequential position
- **Tilting Range:**
  - –5° - 185° (horizontal - vertical - horizontal) (According to the TILT ANGLE)
- **Dimensions:**
  - ø239 mm (D) x 395.5 mm (H) (ø9-7/16” (D) x 15-9/16” (H))
- **Water Resistance:**
  - IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)
- **Resolution (Center):**
  - Horizontal: 480 TV lines minimum (color NORMAL mode)
  - 540 TV lines typ., 520 TV lines minimum (color NORMAL mode)
- **Video Output:**
  - VBS: 1.0 V [p-p] / 75 Ω
- **Scanning Frequencies:**
  - Horizontal: 15.734 kHz
  - Vertical: 59.94 Hz
- **Dynamic Range:**
  - 52 dB typical (Super Dynamic
  - Minimum Illumination:
  - 0.5 lux (0.05 fc) at color mode, 0.06 lux (0.006 fc) at B/W mode, at F1.2 optional lens
- **Focus Speed:**
  - approx. 6.0 seconds (FAR - NEAR, full TELE zoom) in manual mode
- **Scanning Area:**
  - 3.65 mm (H) x 2.74 mm (V)
- **Light Control:**
  - ALC/ELC
- **Balanced Output Power:**
  - 12 V DC, 410 mA
- **Operational Range:**
  - Horizontal: 1.9° (TELE) - 52° (WIDE)
  - Vertical: 1.4° (TELE) - 40° (WIDE)
• 24V AC, 60Hz power source.
• Internal/Line-lock/Multiplexed Vertical Drive (VD2) synchronization.
• Four (4) alarm inputs and two (2) outputs terminals.
• Image Hold function during panning.
• Patrol Learn function (8 zone total).
• Digital-FLIP by memory allows automatic 180° turn.
• Auto focus lens.
• Privacy zone masking function.

MAJOR OPERATING CONTROLS & TERMINALS

- Contrast image correction adjusts moment-to-moment changes in zoom for total zoom capacity of 300x.
- Manually switch from color to B/W.
- Scene change detection alarms when lens is covered, spray painted, removed, or defocused or camera angle is changed.
- Auto Back Focus (ABF) adjustment function, for easy focus at installation and remote on-site fine tuning.
- 380 WTV lines minimum (black and white) at F1.4 (in B/W).
- Higher horizontal resolution of 540-line (typical) at color mode, and 570-line at B/W mode.
- 30x Optical Zoom. Auto Tracking. 256 Presets.

SPECIFICATIONS

- Iris ALC (Adjustable OPEN/CLOSE output target level)/MANUAL
- Password Lock All menus
- Iris Range F1.4 - 22, Close
- Object Distance 1.5 m
- Focal Length 3.8 mm - 114 mm
- Electronic Sensitivity Enhancement 32x max. (AUTO or FIX; Factory Default: AUTO (2))
- Focus Speed approx. 6.0 seconds (FAR - NEAR, full TELE zoom) in manual mode
- Zoom Ratio Control 1x - 300x (Over 30x is electronic zoom)
- Main Functions
  - Electronic shutter from 1/60 (off) to 1/10,000 sec.
  - Digital motion detector.
  - Switches from selected color mode to B/W mode, automatically or manually.
  - Electronic Chopper
  - Super Dynamic
  - Auto Pan Key SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK
  - SPECIAL CHROMA, APERTURE, PEDISTAL, HUE adjustable
  - Special Color (Auto1, Auto2, Ext, On or Off)
  - White Balance ATW1, ATW2 or AWC
  - Digital Noise Reduction High or Low

OPTIONAL ACCESSORIES

- WV-CP484
- WV-CP480
- WV-CW954
- WV-CP480

WEIGHTS (without lens) 520 g (1.1 lbs.)
Without power cord 400 g (0.9 lbs.)

Dimensions ø239 mm (D) x 395.5 mm (H) (ø9-7/16” (D) x 15-9/16” (H))

Water Resistance IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)

Ambient Operating Temperature –10 °C - +50 °C (14 °F - 122 °F)

Minimum Illumination
- 0.6 lux (0.06 fc) at color mode, 0.08 lux (0.008 fc) at B/W mode, at F1.4 optional lens
- 0.06 lux (0.006 fc) at F1.2 (in B/W)
- 0.08 lux (0.008 fc) at F1.4 (in B/W)
- 0.1 lux (0.010 fc) at F1.6 (in B/W)
- 0.2 lux (0.020 fc) at F2.0 (in B/W)

Video Output VBS: 1.0 V [p-p] / 75

Scanning Frequencies
- Horizontal: 15.734 kHz
- Vertical: 59.94 Hz

Signal NTSC

Scanning Area 3.65 mm (H) x 2.74 mm (V)

Pick-up Device 1/4-type interline transfer CCD

Model No. WV-CS954

S/N Ratio 50 dB minimum (AGC: OFF)

Image Hold ON/OFF

Cleaning ON/OFF

Privacy Zone ON/OFF (8 zone settings)

Auto Mode OFF, SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK

Tilting Modes Manual, manual position, sequential position

Panning Modes Manual, auto, manual position, sequential position

Pan and Tilt

Specifications

- Power Connector (for 24V AC)
- BNC Video (for 24V AC)
- Motion Detector OFF/MODE1/MODE2
- Alarm Output Terminal
- Power Indicator
- Set Button / MENU
- Gen-lock Termination Switch
- Camera Mounting Adapter

OPTIONAL ACCESSORIES

- WV-LZ4609S
- WV-LZ4709S

Weights (without lens) 420 g (0.9 lbs.)

Dimensions ø231 mm (D) x 390 mm (H) (ø9” (D) x 15-3/8” (H))

Water Resistance IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)

Ambient Operating Temperature –40 °C - +50 °C (–40 °F - +122 °F)

Minimum Illumination
- 0.5 lux (0.05 fc) (color mode)
- 0.04 lux (0.004 fc) (black and white mode)

Video Output VBS: 1.0 V [p-p] / 75

Scanning Frequencies
- Horizontal: 15.734 kHz
- Vertical: 59.94 Hz

Signal NTSC

Scanning Area 3.65 mm (H) x 2.74 mm (V)

Pick-up Device 1/4-type (1/4”) interline transfer CCD

Model No. WV-CW954

S/N Ratio 50 dB minimum (AGC: OFF)

Image Hold ON/OFF

Super Dynamic

Digital Flip ON/OFF

Auto Pan Key SEQ, SORT, AUTO PAN, PATROL, AUTO TRACK

Panning Modes Manual, auto, manual position, sequential position

Pan and Tilt

Dimensions ø231 mm (D) x 390 mm (H) (ø9” (D) x 15-3/8” (H))

Water Resistance IP66 protection from water jets from a nozzle (IEC60529/JIS C 0920)

Ambient Operating Temperature –40 °C - +50 °C (–40 °F - +122 °F)

Minimum Illumination
- 0.5 lux (0.05 fc) (color mode)
- 0.04 lux (0.004 fc) (black and white mode)

Video Output VBS: 1.0 V [p-p] / 75

Scanning Frequencies
- Horizontal: 15.734 kHz
- Vertical: 59.94 Hz

Signal NTSC

Scanning Area 3.65 mm (H) x 2.74 mm (V)

Pick-up Device 1/4-type (1/4”) interline transfer CCD

Model No. WV-CS954

S/N Ratio 50 dB minimum (AGC: OFF)
1. WV-CW964 x 8
2. WV-CP480 Series x 8

OPTIONAL COMPONENTS & ACCESSORIES

**DIGITAL DISK RECORDERS**
- WJ-HD316A (16ch)
- WJ-HD309A (9ch)
- WJ-HD220 (8ch)

**MATRIX SYSTEMS**
- SYSTEM 650
- SYSTEM 150

**COLOR MONITORS**
- WV-LC1710 43.2cm (17"
- WV-LD1500 38.1cm (15"
- WV-LD2000 50.8cm (20"
- WV-CM1420 34cm (13"
- WV-CM1020 22cm (9"

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**Panasonic Preserving the Environment**

**Energy Saving**
Panasonic has used proprietary technology to develop the low-energy DSP’s that have, for example, reduced energy consumption in our cameras by 9.4% since 1997, from 5.3 watts (WV-CP650) to 4.8 watts (WV-CP480).

**Package Recycling**
To reduce waste and pollution, we have eliminated Styrofoam and minimized use of polyurethane film in our packaging.

**Lead-free Solder**
The hazardous effects of lead solder have been recognized since the 1980s. Panasonic has been a leader in addressing this issue and in 1998 introduced the world’s first portable MD player with lead-free solder in its circuit board. The Security Systems Division is now phasing out use of lead solder in all of its products.

**ISO14001 Certification**
Besides our R&D Division, Panasonic has achieved the environmental ISO14001 certification for plants in Yokohama, Japan, and in Suzhou, China.

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**if Design Award**
The superior exterior shell design of Panasonic surveillance equipment has won recognition around the world. Our WV-C5650 Series indoor cameras won a 2006 if Design Award.

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**Important**
- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot 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.

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**Panasonic System Solutions Company**
Unit Company of Panasonic Corporation of North America

**Security Systems**
Website: [www.panasonic.com/security](http://www.panasonic.com/security)
For Customer Support: call 1.877.733.3689
Executive Office: Three Panasonic Way 2H-2, Secaucus, New Jersey 07084

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