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.

**Super Dynamic III — Exceeding the human eye.**

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 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
  - Motion Vector
  - Motion Area
  - Edge/Frame Detection
  - Image Sampling
  - Area Free Natural Contrast Image Correction
  - Synthesis
  - 1/8,000 sec. short signal for the bright parts
  - 1/60 sec. long signal for the dark parts

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 Output**
  - The Leading Original Technologies Behind Super Dynamic III
  - Cameras now provide a true picture for all surveillance purposes
  - Cameras now think — and act — preventing loss of vital scenes

**SD III**

**Super Dynamic**

**Exceeding the human eye.**

**The Leading Original Technologies Behind Super Dynamic III**

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The Leading Original Technologies Behind Super Dynamic III

Pixel Based 128x Dynamic Range

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Auto Back Focus (ABF) [WV-CP480] and New Image Analysis Algorithms

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.

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Video Process in DSP

- Motion Vector
- Motion Area
- Edge/Frame Detection
- Image Sampling
- Auto Tracking
- Auto Image Stabilizer
- Scene Change Detection
- Electronic Zoom Compensation
- Pan/Tilt Movement Calculation
- Zoom Coefficient Calculation
- Contrast and Level
- Motion Area/Edge Zone
- Stability Change Detection
- Stability/Static Detection
- White Level Change Detection
- GrayLine Detection
- GrayScale Detection
- AreaFree Image Correction
- Auto Back Focus
- Motion Vector/Background
- Modified/Modeless Detection
- AreaFree Image Detection
- Background Noise Detection
- AreaFree Image Detection

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.

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- Motion Area
- Edge/Frame Detection
- Image Sampling
- Auto Tracking
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- Auto Back Focus
- Motion Vector/Background
- Modified/Modeless Detection
- AreaFree Image Detection
- Background Noise Detection
- AreaFree Image Detection

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.
To show you reality clearly, Super Dynamic delivers the definitive picture you need for accurate identification. A 120dB Super Dynamic Range makes it easy to discern subtle details under extreme contrast, even in dimly lit situations. This breakthrough in visual surveillance delivers the picture’s smallest detail.

540-line Horizontal Resolution

The combination of optimized filtering with wide bandwidth digital signal processing developed for the Super Dynamic III (DCR) allows more detailed images with 540 lines (typical) and B/W images with 540 lines of horizontal resolution, revealing the picture’s smallest detail.

Pixel Based 128x Dynamic Range

Super Dynamic III in our True Fine Zoom (Post-Board Noise) Contrast Image Correction to optimize contrast and faithfully reproduce even extremely minute details and positions. Combining 300x optical zoom with 10x digital zoom, the WV-CW964/WV-CS954 Series deliver the picture’s smallest detail.

30x Optical Zoom

Zoom in to Catch Distant Subjects (WV-CW964/WV-CS954 only)

With its 30x optical zoom, the WV-CW964/WV-CS954 Series deliver the picture’s smallest detail, allowing you to zoom in on distant subjects in high position, wide area surveillance applications. Combined with high-performance zoom, speed profile built into the microprocessor give you 0.065°/sec.

Super Fine Pan Control

Our proprietary control chip, DC brushless motor and the optimized waveform circuitry in our newly developed DSP processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.

Auto Image Stabilizer

Cameras may also be affected by weather conditions. Cameras attached to poles or wires may be affected by high winds. Cameras may also be affected by vibration from aircraft, traffic or large trucks. Automatically image stabilization, preventing blur caused by these conditions.

Auto Tracking

Following Intruders

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

Auto Focus

For All-Weather Outdoor Use

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

Auto framed shots are taken at specifications.

Auto Framing

For As-Weather Outdoor Use

For As-Weather Outdoor Use

In auto framing, the WV-CW964/WV-CS954 Series automatically follows the largest movement in the image, saving the camera to pan and tilt to keep the subject in the center of the image. This feature automatically focuses on objects in the center of the image, allowing you to zoom in on distant subjects in high position, wide area surveillance applications. Combined with high-performance zoom, speed profile built into the microprocessor give you 0.065°/sec.

Ready for Temperature Changes

In low outdoor temperatures, cameras can easily be affected by camera operation. WV-CW964/WV-CS954 cameras use an optimized heater to prevent condensation in the camera lens with cloth or paint. Our heritage of experience in making the WV-CP480 Series deliver clear, sharp images in lighting as low as 0.5 lux (0.05 fc, B/W). When equipped with the optional F1.2 lens, the WV-CW964/WV-CS954 Series deliver clear, sharp images in lighting as low as 0.5 lux (0.05 fc, B/W), surpassing their competitors.

Adaptive Digital Noise Reduction

This combination of 2D DNR processing for the moving subject with 3D DNR light produces clear images even under low light conditions. Unwanted streaks from headlights of moving cars can been seen clearly, unmarred by the streaks of light produced by previous 3D DNR subject-image processing. Now even the background image can be seen clearly, unmarred by the streaks of light produced by previous 3D DNR subject-image processing.

Digital Signal Processing

Super Dynamic III Camera Series deliver 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 definitive picture you need under a wide variety of conditions for a host of applications.
To show you reality clearly, Super Dynamic delivers super detail and color of reality itself, even in dimly lit situations. This breakthrough in visual surveillance delivers the picture's smallest detail. With 540 lines of horizontal resolution, revealing images with 570 lines of horizontal resolution, DSP delivers color images with 540 lines (typical) and B/W images with 510 lines (typical) of horizontal resolution, revealing the picture’s smallest detail.

The WV-CW964/WV-CS954 use Adaptive Digital Noise Reduction to ensure that what you see is the full range of natural color, even from poorly illuminated or pale colors. The combination of optimized filtering with wide bandwidth image correction to optimize contrast and faithfully reproduce color processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.

With Auto Back Focus, WV-CW964/WV-CS954 cameras are all equipped with Auto Focus, ensuring that what you see is always sharply in focus. WV-CW964/WV-CS954 cameras are designed to focus cameras during installation, allowing focus to be set using the optional system controller.

Super Dynamic III offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications. Confronted with changing environments or attempts at interference, these cameras think — and then act — to deliver the best possible image. Super smart, Super Dynamic III offers the added reliability to ensure the results you need under a wide variety of conditions for a host of applications.

Scene Change Detection
Automatic image stabilization
Removing the Audio Image Stabilizer
Auto-Focus with 3D Noise Reduction
Auto Tracking
Following Intruders
Auto Back Focus (ABF) — [WV-CW964/WV-CS954 only]
To show you reality clearly, Super Dynamic II delivers the definitive picture you need for accurate identification. This breakthrough in visual surveillance delivers high quality images with 570 lines of horizontal resolution, revealing the picture’s smallest detail. DSP delivers color images with 540 lines (typical) and B/W images with 380 lines, delivering color images with 128x Dynamic Range that makes it the perfect surveillance solution for a wide variety of applications. To ensure that what you see is the full range of natural color, the WV-CW964, WV-CS954 come equipped with a 30x optical zoom lens. Super Fine Pan Control. Combined with high-performance zoom, this feature enables you to smoothly track and capture moving subjects.

30x Optical Zoom (up to 300x with Digital Zoom)

For All-Weather Outdoor Use

Rain Resistant

For rain, sleet or snow, WV-CW964/WV-CS954 are equipped with an AUTO Back Focus function which allows you to adjust the back focus of the camera lens with cloth or paint. WV-CW964/WV-CS954 are all equipped with Auto Focus, ensuring that what you see is always sharply in focus. In WV-CP480 Series cameras, the ABF feature automatically adjusts the CCD position (WV-CP480 Series only) to deliver the best possible image. Super smart, Super Dynamic II offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications.

Scene Change Detection

This feature detects interference conditions. 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 been seen clearly, unmarred by the streaks of light produced by previous 3D DNR subject-image processing. 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, pharmaceutical or chemical labs, prisons, or wherever access is limited. It is also the solution for banks, stocks, and other controlled environments.

Auto Tracking

Following Intruders

Auto Focus

Conventional Super Dynamic

Super Dynamic II

Contrasted with changing environments or attempts at interference, these cameras think— and then act—to deliver the best possible image. Super smart, Super Dynamic II offers the active reliability to ensure the results you need under a wide variety of conditions for a host of applications.
### Digital-FLIP by memory allows automatic 180° turn.

### All-in-one color dome camera unit.

### IP66 of IEC 60529 standard for all weather proof environmental structure.

### Power Requirements
- **24 V AC, 60 Hz**

### Effective Pixels
- **768 (H) x 494 (V)**

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

### Specifi cations
- **S/N Ratio**: 50 dB minimum (AGC: OFF)
- **Iris Range**: F1.4 - 22, Close
- **Angular Field of View**: Horizontal: 1.8° (TELE) - 52° (WIDE)  Vertical: 1.4° (TELE) - 40° (WIDE)
- **Zoom Ratio**: 300x (30x optical zoom plus 10x electronic digital zoom)
- **Electronic Sensitivity Enhancement**: 32x max. (AUTO or FIX; Factory Default: AUTO (2))
- **Shutter**: OFF (1/60), AUTO, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s
- **Gain Control**: ON (HIGH), ON (MID), ON (LOW), or OFF
- **Light Control**: ALC/ELC
- **Auto Back Focus**, **Sharper Images 24-hours a Day.**
- **Higher horizontal resolution of 540-line (typical) at color mode, and 570-line at B/W mode.**
- **Innovative intelligent features:**
  - The new Pixel Based 128x Dynamic Range with area free natural contrast
  - Image correction adjusts automatically to ensure proper viewing through all weather conditions.
- **Picture Quality**: **570 lines minimum (in B/W)**

### Auto Back Focus, Sharper Images 24-hours a Day.

1. **Super Dynamic III**: ON/OFF
2. **ASA resin, coated (Paint color: Fine silver)**
3. **Dome: Clear polycarbonate resin**
4. **30x optical zoom lens (3.8 -114 mm) plus 10x electronic digital zoom for total zoom ratio of 300x**
5. **Innovative intelligent features:**
   - Scene change detection alarms when lens is covered, spray painted, removed, defocused or camera angle is changed.

### Specifications
- **RESOLUTION**
  - Center: 480 TV lines minimum (color NORMAL mode)  540 TV lines typ., 520 TV lines minimum (color
  - Synchronization: Internal (INT), multiplexed vertical drive (VD2), line-lock (LL)
  - Effective Pixels: 768 (H) x 494 (V)
- **Scanning Frequencies**
  - Horizontal: 15.734 kHz, Vertical: 59.94 Hz
- **Synchronization**
  - Internal / Line-Lock / Multiplexed Vertical Drive (VD2)

### Optional Accessories

### MAJOR OPERATING CONTROLS & TERMINALS

1. **Menu setup can be displayed in 8 (eight) languages:** English, German, French, Italian, Spanish, Russian, Chinese and Japanese.
2. **Special Chroma, Aperture, Pedestal, HUE adjustable**
3. **Motion Detection**: ON (Mode1/Mode2) / OFF
4. **Camera ID**: Up to 16 characters
5. **Brightness Settings**
   - X10FIX, X16FIX, X32FIX

### Major Operating Controls & Terminals

1. **Security Wire**
2. **Camera Mounting Base**
3. **Lens**
4. **Camera Mounting Adapter**
5. **Installation**
6. **Alarm Input Connector**
7. **24V AC Power Connector**
8. **Alarm Input Connector**
9. **Alarm Output Connector**
10. **Pan and Tilt**
11. **Electronic Sensitivity Enhancement**
12. **Auto Focus**
13. **Character Display**
14. **GEN-LOCK VIDEO OUT**
15. **GEN-LOCK**
16. **POWER**
17. **GEN-LOCK IN**
18. **IN**
19. **OUT**
20. **DAY/night Switch**
21. **Pan & Tilt**
22. **Camera ID**
23. **Gain Control**
24. **AGC**
25. **Pan & Tilt**
26. **Helpful Features**
27. **Alphanumeric Display (ID)**
28. **Auto Tracking**
29. **4-Pin Alarm Input/Output**
30. **Motion Detector**
31. **OFF/MODE1/MODE2**
32. **Image Hold**
33. **ON/OFF**
34. **Super Dynamic III**
35. **ASA resin, coated (Paint color: Fine silver)**
36. **Dome: Clear polycarbonate resin**
37. **30x optical zoom lens (3.8 -114 mm) plus 10x electronic digital zoom for total zoom ratio of 300x**
38. **Innovative intelligent features:**
   - Scene change detection alarms when lens is covered, spray painted, removed, defocused or camera angle is changed.
**SPECIFICATIONS**

**Initial S/N (DC-200):** Ensures that the image is stable and maintains constant signal levels.

**High-voltage relay driver output:** For use with 24V AC or 12V DC power source.

**For the WV-CP484 model:**
- **Gen-lock input connector**
- **Remote control signal input connector**
- **Input/output connector**

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

**Control Functions:**
- Panning, tilting, zooming, and focusing
- 256 preset positions
- Home position
- Patrol

**Pan and Tilt**
- **Power Connector**
- **Video Connector**
- **Alarm Input/Output**
- **Set Button/MENU**
- **Gen-lock Termination Switch**
- **Auto Iris Lens Connector**
- **Hi-Z G/L75**
- **DC IN**
- **GND**
- **Hi-Z**

**Iris Range:**
- F1.4 - 22
- **Close**

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

**Effective Pixels:**
- 768 (H) x 494 (V)

**Pick-up Device:**
- 1/4-type (1/4") interline transfer CCD

**General**
- **Language Setting:** English, German, French, Italian, Spanish, Russian, Chinese, or Japanese
- **Digital Flip ON/OFF**
- **Cleaning ON/OFF**
- **Patrol STOP/PLAY/LEARN**

**Video Output Connector**
- 1.0 V [p-p] NTSC/EIA composite 75 ohm
- GEN LOCK Input
- VBS / VS 1.0 V [p-p] composite 75 ohm

**Power Connector**
- **AC Inlet (WV-CP480)**
- **Hi-Z G/L75**

**Dimensions:**
- ø239 mm (D) x 395.5 mm (H)

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

**Humidity:**
- 90 % max. (non-condensation)

**Dynamic Range:**
- 52 dB typical (Super Dynamic III)

**III**

**Scanning Area:**
- 4.8 (H) x 3.6 (V) mm (Equivalent to scanning area of 1/3" pick-up tube)

**Camera ID:**
- Up to 16 characters

**Language:**
- English, French, German, Spanish, Italian, Russian, Chinese, or Japanese

**Digital Flip:**
- ON/OFF

**Cleaning:**
- ON/OFF

**Patrol:**
- STOP/PLAY/LEARN

**Super Dynamic III**
- Auto Back Focus, Sharper Images 24-hours a Day.
• Multiplex-coaxial or RS-485 data communication.
• Panning speed of max. 400°/s at preset mode and 0.065°/s
• Auto panning function with 256 preset positions.
• Digital FLIP by memory allows automatic 180° turn.
• Auto focus lens.
• Digital motion detector.
• Privacy zone masking function.
• Minimum illumination of 0.5 lux (0.05 fc) at color mode, and 0.04 lux (0.004 fc) at black and white mode.
• Built-in fan/heater for temperature changes of -40°C ~ +50°C (-40°F ~ +122°F).
• IP66 of IEC 60529 standard for all weather proof environmental structure.
• 570-line at B/W mode.
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”)

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.

iF Design Award
The superior exterior shell design of Panasonic surveillance equipment has won recognition around the world. Our WV-CSP50 Series indoor cameras won a 2006 iF design award.

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.
About BarcodesInc

Who We Are
BarcodesInc is North America's leading provider of specialized digital data hardware and software solutions. Our products include barcode scanners, mobile computing devices, identification card equipment, point-of-sale systems, barcode label and receipt printers, and consumables, all of which help customers improve productivity and profitability. Our product and solution experts have been serving both small businesses and large enterprises since 1994.

We Owe Our Success To You
It’s true that data tracking is our expertise - but customer satisfaction is our true passion. We have one overriding objective: focus on you, the customer. We understand that each customer’s need is unique. That’s why we listen carefully and tailor our solutions to meet your needs. We appreciate the opportunity to serve you and strive to exceed your expectations!

Why Choose BarcodesInc?

Dedicated Account Manager
Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

Highly-Trained Technical Support
Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

Incredible Value
Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

Largest Inventory in the Industry and Same-Day Shipping
Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the same day.

Premier Access to Top Manufacturers
BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

Responsive Customer Service
Every phone call and email is responded to promptly, completely and accurately by our customer service team.

Easy Returns
Damaged, defective or incorrectly ordered goods may be returned without hassle.