Superior Reality Processor Concept

Panasonic’s analog cameras will evolve into the next generation with Superior Reality Processor.

Superior Features

- Superior Reality Processor
- Enhanced ABS
- Proactive 2D/3D-DNR
- Enhanced DNR processing improves image quality
- Super wide dynamic range
- Enhanced image quality

Advanced Features

- Intelligent Resolution
- Color Reproducibility
- Proactive 2D/3D-DNR
- Enhanced ABS (Adaptive Black Stretch)
- Lens Distortion Compensation
- Electrical Sense Up 512x
- On Screen Display Menu
- Auto Tracking
- Scene Change Detection
- Auto Image Stabilizer

Basic Features

- Horizontal resolution 700 lines
- Min. Illumination 0.08 lx (color)
- 0.008 lx (B/W)
- 0 lx (with IR LED)

Panasonic Black Box Technology

- SD Non-Linear Combined Algorithm
- Super dynamic range improved in color reproducibility
- Enhanced ABS
- Enhances dark area graduation and visibility around motion area

Enhanced ABS

Enhanced ABS processing improves dark area graduation and visibility around motion area, exceeding the human eye.

Proactive 2D/3D-DNR

Enhanced DNR processing improves image quality proactively with the combination of 2D DNR processing for the moving object with 3D DNR for the background.

Superior Reality Processor Concept

Panasonic’s analog cameras will evolve into the next generation with Superior Reality Processor.

Technology for Analog products

“Superior Reality” processor realizes much high efficiency, such as high resolution, color reproducibility, high sensitivity, lens distortion, auto tracking (PTZ camera only), scene change detection (fixed camera only), auto image stabilizer.

* Supported functions and specifications differ according to the models. See the specifications for each model.
Technology

Superior Features

**Super Dynamic 6**
Super Dynamic 6 delivers Superior image by fusion of Super Dynamic with Non-Linear Combined Algorithm and enhanced ABS (Adaptive Black Stretch). It not only features natural contrast reproduction, but also improves dark area graduation and visibility around motion area, exceeding the human eye.

**High Resolution**
Superior Reality processor delivers color images with 650 lines (typical) of horizontal resolution, revealing the picture’s smallest detail.

**High Sensitivity**
Minimum illumination 0.08 lx allows color images even when lighting is dim. When the situation is too dark, Electronic Sensitivity Enhancement and Day/Night feature further enhances the low light capability at 0.008 lx, ideal for 24-hour surveillance.

**Advanced Features**

**Intelligent Resolution**
This feature makes the blur image by an electronic zoom processing to clear image. It provide identification of the characters of a number plate, a note etc. by Superior Reality processor. So more effective surveillance system can be offered.

**Color Reproducibility**
To ensure that what you see is the full range of natural color, the digital color circuitry in our Superior Reality processor processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.

**Proactive 2D/3D-DNR**
The combination of 2D DNR processing for the moving object 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 object-image processing.

**Basic Features**

**High Resolution**
Superior Reality processor delivers color images with 650 lines (typical) of horizontal resolution, revealing the picture’s smallest detail.

**High Sensitivity**
Minimum illumination 0.08 lx allows color images even when lighting is dim. When the situation is too dark, Electronic Sensitivity Enhancement and Day/Night feature further enhances the low light capability at 0.008 lx, ideal for 24-hour surveillance.

**Additional Value**

**Lens Distortion Compensation**
The compensation of distortion with wide-angle lens enables the use of various lenses.

**Electrical Sense Up 512x**
This feature provides extensive surveillance in low light condition by up to 512x of electrical sense up function.

**On Screen Display Menu**
This feature provides easy and useful configuration menu which implemented to all line-up models.

**Auto Tracking (PTZ camera only)**
This feature automatically follows the largest moving object in the image, causing the camera to pan and tilt to keep the object in the center of the image.

**Scene Change Detection**
This feature detects interference and sends an alarm signal when the camera’s operation has been hampered.

**Auto Image Stabilizer**
Automatic image stabilization prevents blurring under the condition by vibration from high winds, aircraft, trains, or large trucks.
# Analog Camera Comparison Chart

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Outdoor</th>
<th>Indoor</th>
<th>Outdoor</th>
<th>Indoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>WV-CW590 Series</td>
<td>WV-CS580 Series</td>
<td>WV-CW630 Series</td>
<td>WV-CW500 Series</td>
</tr>
<tr>
<td>Model Name (TV Eamon)</td>
<td>WV-CW594</td>
<td>WV-CW594A</td>
<td>WV-CW594S (Surface mount)</td>
<td>WV-CW594S (Flush mount)</td>
</tr>
</tbody>
</table>

## Appearance

<table>
<thead>
<tr>
<th>Series</th>
<th>WV-CS580 Series</th>
<th>WV-CW630 Series</th>
<th>WV-CW500 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cam Type</td>
<td>PTZ</td>
<td>Dome</td>
<td>Indoor</td>
</tr>
<tr>
<td>Lens</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dehumidification</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
</tr>
</tbody>
</table>

## Options

<table>
<thead>
<tr>
<th>Series</th>
<th>WV-CS580 Series</th>
<th>WV-CW630 Series</th>
<th>WV-CW500 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Heater Unit</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

## Technical Specifications

### WV-CW594
- **NTSC**: Yes
- **Built-in IR LED**: Yes (Electrical)
- **Day/Night**: Super Dynamic / WDR / BLC
- **Resolution**: 650 TV lines
- **Minimum Illumination**: 0.5 lx
- **Color Sensitivity**: 0.016 lx
- **B/W (Sens up)**: 0.0013 lx
- **B/W**: 360° endless
- **Optical Zoom**: 20x
- **Digital Zoom**: 2x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: 90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-CW594A
- **NTSC**: Yes
- **Built-in IR LED**: Yes (ICR)
- **Day/Night**: Yes (ICR)
- **Resolution**: 700 TV lines or more
- **Minimum Illumination**: 0.08 lx
- **Color Sensitivity**: 0.0024 lx
- **B/W (Sens up)**: 0.00024 lx
- **B/W**: ±170°
- **Optical Zoom**: 2.1x
- **Digital Zoom**: 2.1x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: ±90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-CW634S
- **NTSC**: Yes
- **Built-in IR LED**: Yes (ICR)
- **Day/Night**: Yes (ICR)
- **Resolution**: 650 TV lines
- **Minimum Illumination**: 0.1 lx
- **Color Sensitivity**: 0.003 lx
- **B/W (Sens up)**: 0.0003 lx
- **B/W**: ±170°
- **Optical Zoom**: 2.1x
- **Digital Zoom**: 2.1x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: ±90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-CW634F
- **NTSC**: Yes
- **Built-in IR LED**: Yes (ICR)
- **Day/Night**: Yes (ICR)
- **Resolution**: 650 TV lines
- **Minimum Illumination**: 0.2 lx
- **Color Sensitivity**: 0.004 lx
- **B/W (Sens up)**: 0.0004 lx
- **B/W**: ±170°
- **Optical Zoom**: 2.1x
- **Digital Zoom**: 2.1x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: ±90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-CW504S
- **NTSC**: Yes
- **Built-in IR LED**: Yes (ICR)
- **Day/Night**: Yes (ICR)
- **Resolution**: 650 TV lines
- **Minimum Illumination**: 0.3 lx
- **Color Sensitivity**: 0.005 lx
- **B/W (Sens up)**: 0.0005 lx
- **B/W**: ±170°
- **Optical Zoom**: 2.1x
- **Digital Zoom**: 2.1x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: ±90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-CW504F
- **NTSC**: Yes
- **Built-in IR LED**: Yes (ICR)
- **Day/Night**: Yes (ICR)
- **Resolution**: 650 TV lines
- **Minimum Illumination**: 0.4 lx
- **Color Sensitivity**: 0.006 lx
- **B/W (Sens up)**: 0.0006 lx
- **B/W**: ±170°
- **Optical Zoom**: 2.1x
- **Digital Zoom**: 2.1x
- **Pixel**: 1/3 type interline transfer CCD
- **Scene Change**: Yes
- **VMD (Video Motion Detection)**: Yes
- **Camera Title (OSD)**: Scene Change
- **Pan**: 180° to 180°
- **Tilt**: ±90°
- **Max. Illumination**: 2000 lx
- **Built-in IR LED**: —
- **Weight**: 2 lbs

### WV-Q121B
- **Ceiling Mount Bracket**: —
- **Wall Mount Bracket**: —

### WV-Q126A
- **Mount Bracket**: —
- **Embedded Ceiling**: —

### WV-Q117A
- **Wall Mount Bracket**: —

### WV-Q115A
- **Mount Bracket**: —
- **Embedded Ceiling**: —

### WV-Q169A
- **Mount Bracket**: —
- **Embedded Ceiling**: —

### WV-Q174B
- **Mount Bracket (Sail white)**: —

---

For more detailed specifications and options, please refer to the complete documentation provided by the manufacturer.
## Analog Camera Comparison chart

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor / Outdoor</td>
<td>Indoor</td>
<td>Outdoor</td>
</tr>
<tr>
<td>Series</td>
<td>WV-CF344</td>
<td>WV-CF354</td>
</tr>
<tr>
<td>Model Name (TV System)</td>
<td>WV-CF314L</td>
<td>WV-CW314L</td>
</tr>
</tbody>
</table>

### Appearance

<table>
<thead>
<tr>
<th></th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>1/3 type interline transfer CCD</td>
<td>1/3 type interline transfer CCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>Horizontal</td>
<td>650 TV lines</td>
</tr>
<tr>
<td>Super Dynamic / WDR / BLC</td>
<td>BLC</td>
<td>BLC</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (Electrical)</td>
<td>Yes (Electrical)</td>
</tr>
<tr>
<td>Focus Adjustment</td>
<td>ABF</td>
<td>ABF</td>
</tr>
<tr>
<td>Built-in IR LED (irradiation distance)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color</td>
<td>0.08 lx</td>
</tr>
<tr>
<td></td>
<td>Color (Sens up)</td>
<td>0.0025 lx</td>
</tr>
<tr>
<td></td>
<td>B/W</td>
<td>0.05 lx</td>
</tr>
<tr>
<td></td>
<td>B/W (Sens up)</td>
<td>0 lx (with IR LED)</td>
</tr>
<tr>
<td>Lens</td>
<td>f= 2.8 to 10 mm, F1.4</td>
<td>f= 2.8 to 10 mm, F1.4</td>
</tr>
<tr>
<td>Angular field of view</td>
<td>H: 27.3° (Tele) to 75.3° (Wide)</td>
<td>H: 27.3° (Tele) to 75.3° (Wide)</td>
</tr>
<tr>
<td>Adjusting Angle</td>
<td>Pan</td>
<td>180° to –180°</td>
</tr>
<tr>
<td></td>
<td>Tilt</td>
<td>±90°</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>VMD (Video Motion Detection)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>i-VMD (Intelligent VMD)</td>
<td>Scene Change</td>
<td>Scene Change</td>
</tr>
<tr>
<td>Camera title (OSD)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>External I/O</td>
<td>ALARM IN: 1 (OFF / ALARM / VMD PERMIT / BW)</td>
<td>ALARM IN: 1 (OFF / ALARM / BW)</td>
</tr>
<tr>
<td>Vandal Resistant</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Water and Dust Resistance</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dehumidification device</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature</td>
<td>–10 ˚C to 50 ˚C</td>
<td>–10 ˚C to 50 ˚C</td>
</tr>
<tr>
<td>Power Source</td>
<td>24 V AC or 12 V DC</td>
<td>24 V AC or 12 V DC</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th></th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Dome Cover</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Bracket</td>
<td>Embedded Ceiling Mount Bracket (Sail white)</td>
<td>Embedded Ceiling Mount Bracket (Sail white)</td>
</tr>
<tr>
<td>Heater Unit</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

---

## Analog Camera Comparison chart NTSC

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor / Outdoor</td>
<td>Indoor</td>
<td>Outdoor</td>
</tr>
<tr>
<td>Series</td>
<td>WV-CP630 Series</td>
<td>WV-CP600 Series</td>
</tr>
<tr>
<td>Model Name (TV System)</td>
<td>WV-CP630</td>
<td>WV-CP620</td>
</tr>
</tbody>
</table>

### Appearance

<table>
<thead>
<tr>
<th></th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>1/3 type interline transfer CCD</td>
<td>1/3 type interline transfer CCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>Horizontal</td>
<td>700 TV lines</td>
</tr>
<tr>
<td>Super Dynamic / WDR / BLC</td>
<td>Super-D</td>
<td>Super-D</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td>Focus Adjustment</td>
<td>ABF</td>
<td>ABF</td>
</tr>
<tr>
<td>Built-in IR LED</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color</td>
<td>0.08 lx</td>
</tr>
<tr>
<td></td>
<td>Color (Sens up)</td>
<td>0.003 lx</td>
</tr>
<tr>
<td></td>
<td>B/W</td>
<td>0.008 lx</td>
</tr>
<tr>
<td></td>
<td>B/W (Sens up)</td>
<td>0.0003 lx</td>
</tr>
<tr>
<td>Lens</td>
<td>optional</td>
<td>optional</td>
</tr>
<tr>
<td>Angular field of view</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Adjusting Angle</td>
<td>Pan</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>Tilt</td>
<td>—</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>VMD (Video Motion Detection)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>i-VMD (Intelligent VMD)</td>
<td>Scene Change</td>
<td>Scene Change</td>
</tr>
<tr>
<td>Camera title (OSD)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>External I/O</td>
<td>ALARM IN: 1 (OFF / ALARM / BW)</td>
<td>ALARM IN: 1 (OFF / ALARM / BW)</td>
</tr>
<tr>
<td>Vandal Resistant</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Water and Dust Resistance</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Dehumidification device</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature</td>
<td>–10 ˚C to 50 ˚C</td>
<td>–10 ˚C to 50 ˚C</td>
</tr>
<tr>
<td>Power Source</td>
<td>WV-CP630: 120 V AC</td>
<td>WV-CP634: 12 V DC or 24 V AC</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th></th>
<th>Dome</th>
<th>BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Dome Cover</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Bracket</td>
<td>Embedded Ceiling Mount Bracket (Sail white)</td>
<td>Embedded Ceiling Mount Bracket (Sail white)</td>
</tr>
<tr>
<td>Heater Unit</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
### Analog Camera Comparison Chart

#### PAL

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Outdoor</th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong> (TV System)</td>
<td>WV-CW590 / WV-CW590A</td>
<td>WV-CW590 / WV-CW594A</td>
<td>WV-CW630S / WV-CW634S</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td>1/4-type interline transfer CCD</td>
<td>1/4-type interline transfer CCD</td>
<td>1/3-type interline transfer CCD</td>
</tr>
<tr>
<td><strong>Resolutions</strong></td>
<td>Horizontal: 450 TV lines</td>
<td>Horizontal: 450 TV lines</td>
<td>Horizontal: 540 TV lines</td>
</tr>
<tr>
<td><strong>Super Dynamic / WDR / BLC</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Day/Night</strong></td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
<td>Yes (ICR)</td>
</tr>
<tr>
<td><strong>Built-in IR LED</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in Heater</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Parts</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Other Functions

<table>
<thead>
<tr>
<th>Other Functions</th>
<th>WV-CW590A / WV-CW594A</th>
<th>WV-CW590 / WV-CW594A</th>
<th>WV-CW630S / WV-CW634S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Dome Cover</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Wall Mount Bracket</td>
<td>WV-D118</td>
<td>WV-D118</td>
<td>WV-D118</td>
</tr>
<tr>
<td>Bracket</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Heater Unit</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Color (Sens up)</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Dehumidification device</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Optional Bracket</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Smoke Dome Cover</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Other Information

<table>
<thead>
<tr>
<th>Information</th>
<th>WV-CW594 / WV-CW594A</th>
<th>WV-CW590 / WV-CW590A</th>
<th>WV-CS580 / WV-CS584</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dehumidification device</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in IR LED</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in Heater</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Parts</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Additional Details

- **Resolution (Horizontal)**: 540 TV lines
- **Super Dynamic / WDR / BLC**: —
- **Built-in IR LED**: —
- **Built-in Heater**: —
- **Options**: —
- **Parts**: —

---

**Additional Section**

<table>
<thead>
<tr>
<th>Information</th>
<th>WV-CW630S / WV-CW634S</th>
<th>WV-CW500S / WV-CW504S</th>
<th>WV-CW5HA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Color (Sens up)</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Dehumidification device</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in IR LED</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in Heater</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Parts</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Other Information

<table>
<thead>
<tr>
<th>Information</th>
<th>WV-CW630S / WV-CW634S</th>
<th>WV-CW500S / WV-CW504S</th>
<th>WV-CW5HA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dehumidification device</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in IR LED</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Built-in Heater</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Options</strong>:</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Parts</strong>:</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
## Analog Camera Comparison Chart

### PAL

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Dome</th>
<th>Indoor / Outdoor</th>
<th>WV-CF300L Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model Name (TV System)</td>
<td>WV-CF304L</td>
<td>WV-CF314L</td>
<td>WV-CF314L</td>
</tr>
</tbody>
</table>

### Appearance

#### Sensor
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD

#### Resolution
- Horizontal
  - 650 TV lines
  - 650 TV lines
  - 650 TV lines
  - 650 TV lines
  - 650 TV lines

#### Day/Night
- Yes (Electrical)
- Yes (ICR)
- Yes (ICR)
- Yes (ICR)
- Yes (ICR)

#### Focus Adjustment
- Focus Assist
- Focus Assist
- Focus Assist
- Focus Assist
- ABF

#### Built-in IR LED (Irradiation distance)
- —
- —
- Yes (10m)
- Yes (20m)
- —

#### Min. Illumination
- Color
  - 0.08 lx
  - 0.08 lx
  - 0.08 lx
  - 0.15 lx
  - 0.08 lx
- Color (Sens up)
  - 0.0025 lx
  - 0.0025 lx
  - 0.0025 lx
  - 0.003 lx
  - 0.0025 lx
- B/W
  - 0.05 lx
  - 0.05 lx
  - 0.008 lx
  - 0 lx (with IR LED)
  - 0 lx (with IR LED)
- B/W (Sens up)
  - 0.0016 lx
  - 0.0016 lx
  - 0.0003 lx
  - —
  - —

#### Lens
- f= 2.8 to 10 mm, F1.4
- f= 2.8 to 10 mm, F1.4
- f= 2.8 to 10 mm, F1.4
- f= 2.8 mm, F1.3
- f= 2.8 to 10 mm, F1.3

#### Adjusting Angle
- Pan
  - 180° to –170°
  - 180° to –170°
  - 180° to –170°
  - 180° to –170°
  - 180° to –170°
- Tilt
  - ±90°
  - ±90°
  - ±90°
  - 0 to 75 °
  - 0 to 75 °

#### Optical Zoom
- 3.6x
- 3.6x
- 3.6x
- —
- 3.6x

#### Digital Zoom
- 2x
- 2x
- 2x
- 2x
- 2x

#### VMD (Video Motion Detection)
- Yes
- Yes
- Yes
- Yes
- Yes

#### Camera title (OSD)
- Yes
- Yes
- Yes
- Yes
- Yes

#### External I/O
- —
- —
- —
- —
- —

#### Vandal Resistant
- —
- —
- —
- —
- —

#### Dehumidification device
- —
- —
- —
- —
- —

#### Temperature
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C

#### Power Source
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC

### Options

#### Smoke Dome Cover
- —
- —
- —
- —
- —

#### Bracket
- Embedded Ceiling Mount Bracket (Sail white) WV-Q174B
- Embedded Ceiling Mount Bracket (Sail white) WV-Q174B
- Embedded Ceiling Mount Bracket (Sail white) WV-Q174B
- —
- —

#### Heater Unit
- —
- —
- —
- —
- —

### Analog Camera Comparison Chart

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>BOX</th>
<th>Indoor / Outdoor</th>
<th>WV-CW300L Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model Name (TV System)</td>
<td>WV-CW314L</td>
<td>WV-CW324L</td>
<td>WV-CP630L</td>
</tr>
</tbody>
</table>

### Appearance

#### Sensor
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD
- 1/3 type interline transfer CCD

#### Resolution
- Horizontal
  - 650 TV lines
  - 650 TV lines
  - 650 TV lines
  - 700 TV lines

#### Day/Night
- Yes (ICR)
- Yes (ICR)
- Yes (ICR)
- Yes (ICR)
- Yes (ICR)

#### Focus Adjustment
- Focus Assist
- Focus Assist
- Focus Assist
- ABF
- ABF

#### Built-in IR LED
- Yes (20m)
- Yes (50m)
- Yes (50m)
- —
- —

#### Min. Illumination
- Color
  - 0.15 lx
  - 0.08 lx
  - 0.08 lx
  - 0.08 lx
  - 0.08 lx
- Color (Sens up)
  - 0.005 lx
  - 0.0025 lx
  - 0.0025 lx
  - 0.003 lx
  - 0.003 lx
- B/W
  - 0 lx (with IR LED)
  - 0 lx (with IR LED)
  - 0 lx (with IR LED)
  - 0.008 lx
  - 0 lx (with IR LED)
- B/W (Sens up)
  - —
  - —
  - —
  - 0.0003 lx
  - —

#### Lens
- f= 2.8 mm, F1.3
- f= 2.8 to 10 mm, F1.3
- f= 9 to 22 mm, F1.3 optional
- —
- —

#### Angular field of view
- H: 101.5°
- V: 75°
- H: 27.65° (Tele) to 100.8° (Wide)
- V: 20.75° (Tele) to 73.85° (Wide)
- H: 12.41° (Tele) to 30.95° (Wide)
- V: 9.33° (Tele) to 23.46° (Wide)
- —
- —

#### Adjusting Angle
- Pan
  - —
  - —
  - —
  —
  —
- Tilt
  - —
  - —
  - —
  —
  —

#### Optical Zoom
- —
- 3.6x
- 2.4x
- —
- 3.6x

#### Digital Zoom
- 2x
- 2x
- 2x
- 2x
- 2x

#### VMD (Video Motion Detection)
- Yes
- Yes
- Yes
- Yes
- Yes

#### Camera title (OSD)
- Yes
- Yes
- Yes
- Yes
- Yes

#### External I/O
- —
- —
- —
- ALARM IN : 1 (OFF / ALARM / VMD / BW)
- ALARM OUT : 1 (OFF / ALARM / BW)

#### Vandal Resistant
- —
- —
- —
- —
- —

#### Water and Dust Resistance
- IP66
- IP66
- IP66
- —
- —

#### Temperature
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C
- –10 ˚C to 50 ˚C

#### Power Source
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC
- 24 V AC or 12 V DC
- WV-CP630 : 220-240 V AC
- WV-CP634 : 24 V AC or 12 V DC

### Options

#### Smoke Dome Cover
- —
- —
- —
- —
- —

#### Bracket
- —
- —
- —
- —
- —

#### Heater Unit
- —
- —
- —
- —
- —

---

**Analog Camera Comparison chart**

**PAL**

**Camera Type**
- Dome
- Indoor / Outdoor
- WV-CF300L Series

**Series**
- WV-CF344
- WV-CF344
- WV-CF374
- WV-CF304L
- WV-CF314L

**Options**
- Smoke Dome Cover
- Bracket
- Heater Unit

---

**Analog Camera Comparison chart**

**PAL**

**Camera Type**
- BOX
- Indoor / Outdoor
- WV-CW300L Series

**Series**
- WV-CW304L
- WV-CW314L
- WV-CW324L
- WV-CP630L
- WV-CP634L

**Options**
- Smoke Dome Cover
- Bracket
- Heater Unit

---

**Analog Camera Comparison chart**

**PAL**

**Camera Type**
- BOX
- Indoor / Outdoor
- WV-CW300L Series

**Series**
- WV-CW304L
- WV-CW314L
- WV-CW324L
- WV-CP630L
- WV-CP634L

**Options**
- Smoke Dome Cover
- Bracket
- Heater Unit

---

**Analog Camera Comparison chart**

**PAL**

**Camera Type**
- BOX
- Indoor / Outdoor
- WV-CP630 Series

**Series**
- WV-CP634
- WV-CP634

**Options**
- Smoke Dome Cover
- Bracket
- Heater Unit

---

**Analog Camera Comparison chart**

**PAL**

**Camera Type**
- BOX
- Indoor / Outdoor
- WV-CP630 Series

**Series**
- WV-CP634
- WV-CP634

**Options**
- Smoke Dome Cover
- Bracket
- Heater Unit
**Digital Video Recorders**

**16ch Real-time H.264 Digital Disk Recorder**

**WJ-HD716**

- (120 V AC, NTSC, 220 V - 240 V AC, PAL)
- **WJ-HD616**

- (120 V AC, NTSC, 220 V - 240 V AC, PAL)

**Optional Accessories**

- HDD Cartridge: WJ-HD400K
- RAID Board: WJ-HDB601, WJ-HDB601A
- Built-in DVD Drive: WJ-HDB611, WJ-HDB611A
- Hard Disk Extension Unit: WJ-HD400

---

**Lenses**

- **1/3 Type Variable Focal Lenses**
  - 2× Variable:
    - **WV-LZ61/62/8S**
  - 8× Variable:
    - **WV-LZ62/8S**

**Lens Selection Chart**

The examples displayed below are monitor images captured with 1/3 type cameras, illustrating the relationship between lens focal length and the capture image. Use these images to select the type of lens best suited to your application.

---

**Analog Camera Comparison chart**

| PAL |

---

**Camera Type**

- Box

**Models (TV Systems)**

- WV-CF600 Series
- WV-CF300 Series

**Options**

- Other Functions
  - Temperature
    - –10°C to 50°C
  - Dehumidification device
  - Water and Dust Resistance
  - Vandal Resistant

**Sensor**

- 1/3 type interline transfer CCD

**Appearance**

- Series
  - WV-CP604
  - WV-CP600
  - WV-CP624
  - WV-CP620
  - WV-CP304
  - WV-CP300
  - WV-CP314
  - WV-CP310

**Pan and Tilt**

- Yes

**Zoom and Focal Length**

- 2× Variable Focal
  - WV-LZ61/62/8S
- 8× Variable Focal
  - WV-LZ62/8S

**Lens and Focal Length**

- 2× Variable Focal
  - WV-LZ61/62/8S
  - 3.8 mm to 8 mm
  - F1.4 (tele)
  - 4.0 (wide)
  - WV-LZ61/62/8S

- 8× Variable Focal
  - WV-LZ62/8S
  - 5 mm to 40 mm
  - F1.8 (tele)

**Digital Zoom**

- Optical Zoom
  - Optional

**Optional Accessories**

- WJ-HDU40K
  - HDD Canister
- WJ-HDB601
  - RAID Board
- WJ-HDB611
  - Built-in DVD Drive
- WJ-HD400
  - Hard Disk Extension Unit

---

*Because of monitor over scan, actual images may differ slightly from those shown here.*

*Camera image* in the area included in the image by the camera. *Ratio* determines the proportion of this area occupied by the subject in the image that appears on the monitor (Height).

- Use these images to select the type of lens best suited to your application.

---

**Analog Camera Comparison chart**

| PAL |

---

**Camera Type**

- Box

**Models (TV Systems)**

- WV-CF600 Series
- WV-CF300 Series

**Options**

- Other Functions
  - Temperature
    - –10°C to 50°C
  - Dehumidification device
  - Water and Dust Resistance
  - Vandal Resistant

**Sensor**

- 1/3 type interline transfer CCD

**Appearance**

- Series
  - WV-CP604
  - WV-CP600
  - WV-CP624
  - WV-CP620
  - WV-CP304
  - WV-CP300
  - WV-CP314
  - WV-CP310

**Pan and Tilt**

- Yes

**Zoom and Focal Length**

- 2× Variable Focal
  - WV-LZ61/62/8S
  - 3.8 mm to 8 mm
  - F1.4 (tele)
  - 4.0 (wide)
  - WV-LZ61/62/8S

- 8× Variable Focal
  - WV-LZ62/8S
  - 5 mm to 40 mm
  - F1.8 (tele)

**Lens and Focal Length**

- 2× Variable Focal
  - WV-LZ61/62/8S
  - 3.8 mm to 8 mm
  - F1.4 (tele)
  - 4.0 (wide)
  - WV-LZ61/62/8S

- 8× Variable Focal
  - WV-LZ62/8S
  - 5 mm to 40 mm
  - F1.8 (tele)

**Digital Zoom**

- Optical Zoom
  - Optional

**Optional Accessories**

- WJ-HDU40K
  - HDD Canister
- WJ-HDB601
  - RAID Board
- WJ-HDB611
  - Built-in DVD Drive
- WJ-HD400
  - Hard Disk Extension Unit

---

*Because of monitor over scan, actual images may differ slightly from those shown here.*

*Camera image* in the area included in the image by the camera. *Ratio* determines the proportion of this area occupied by the subject in the image that appears on the monitor (Height).

- Use these images to select the type of lens best suited to your application.

---