Projectors  Installation series

Providing advanced functionality with flexible installation features

Hitachi America, Ltd., Digital Media Division
2420 Fenton Street, Suite 200 Chula Vista, CA 91914, U.S.A. and Canada  Tel: +1-619-448-2944  www.hitachi-america.us/digitalmedia
Hitachi Home Electronics Asia (G) Pvt. Ltd.
Hitachi Sales Malaysia Sdn. Bhd.
Lot 15, Jalan Klang Seri, Bandar Puteri, 41200 Kajang, Selangor, Malaysia  Tel: +603-8922-8688  www.hitachi-media.com.my
Hitachi Sales (Thailand) Ltd.
354, 2/6/20 Mo. 16, Bang Pu Industrial Estate, 10540, Bangkok, Thailand  Tel: +66-2-533-6467  www.hitachi-mediat.com
Hitachi (Hong Kong) Ltd.
11/F, 9 & 10/F, Forward, One Man Ho, 25 On Muk Street, Sham Shui Po, Kowloon  Tel: +852-2113-7972  www.hitachi-mediat.com
Hitachi Sales Corp. of Taiwan
13F, 1F, 12F, 108 Yuan Fu Road, 10545, Taipei, Taiwan  Tel: +886-2-2516-0500  www.hitachi-mediat.com.tw
Hitachi Australia Pty Ltd.
Suite A, Level 1, 10 Queen Street, North Ryde NSW 2113, Australia  Tel: +61-2-9866-1100  www.hitachi-mediat.com.au
Hitachi Europe GmbH
World Consumer Marketing, Inc.
http://www.worldconsumermarketing.com
Development and Manufacture:  Maxell, Ltd.
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Projectors incorporate three LCD panels with inorganic alignment layers that are extremely light resistant, increasing brightness and contrast ratio. They provide smooth images and high reliability.

### 3 LCD Chips with Inorganic Alignment Layers

- **3-Chip DLP®**
  - Each chip is divided by a light prism into each of the three primary color chips instead of the light being directed into one unique chip. The light is then redirected and combined through the projector lens as the image. This 3-chip system makes images natural with vivid colors.

### 1-Chip DLP®

- **1-Chip DLP®**
  - Projection method that uses a single DLP® chip to switch the red, green, and blue signals according to the color wheel. This method provides excellent color uniformity of images, durability, and is suitable for multiple projections and 24-hour use.

### Model Specifications

<table>
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<th>6000 Series</th>
<th>Display System</th>
<th>Light Output (Brightness)</th>
<th>Resolution</th>
<th>Light Source</th>
<th>Standard Outside Dimensions (W × H × D)</th>
<th>Weight</th>
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<tr>
<td>K Series</td>
<td>CP-WU13K</td>
<td>13,000 lm</td>
<td>WUXGA 1,920 × 1,200</td>
<td>465W × 2 lamp</td>
<td>500mm × 270mm × 633mm (19.7&quot; × 10.6&quot; × 24.9&quot;) (Excluding lens and protruding parts)</td>
<td>Approx. 34.0kg (75.0lbs.)</td>
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<tr>
<td>9000 Series</td>
<td>CP-WU10EB</td>
<td>10,000 lm</td>
<td>WUXGA 1,920 × 1,200</td>
<td>Laser diode</td>
<td>500mm × 216mm × 576mm (19.7&quot; × 8.5&quot; × 22.7&quot;) (Excluding lens and protruding parts)</td>
<td>Approx. 28kg (61.7lbs.)</td>
</tr>
<tr>
<td>8000 Series</td>
<td>CP-WU120EB</td>
<td>8,000 lm</td>
<td>WUXGA 1,920 × 1,200</td>
<td>430W × 2 lamp</td>
<td>397mm × 210mm × 537mm (15.6&quot; × 8.3&quot; × 21.1&quot;) (Excluding lens and protruding parts)</td>
<td>Approx. 17.0kg (37.5lbs.)</td>
</tr>
<tr>
<td>5000 Series</td>
<td>CP-WU9100B</td>
<td>8,500 lm</td>
<td>WXGA 1,280 × 800</td>
<td>370W × 2 lamp</td>
<td>597mm × 210mm × 437mm (23.5&quot; × 8.3&quot; × 17.2&quot;) (Excluding lens and protruding parts)</td>
<td>Approx. 16.9kg (37.2lbs.)</td>
</tr>
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</table>

### Specifications

- **Projector Selection**
  - Choose from a variety of models, each with different display systems, light outputs, resolutions, and light sources.
  - Specifications for different models are provided, including outside dimensions and weight.

### Additional Features

- **3-Chip DLP®**
  - Projection method that uses a single DLP® chip to switch the red, green, and blue signals according to the color wheel. This method provides excellent color uniformity of images, durability, and is suitable for multiple projections and 24-hour use.

- **1-Chip DLP®**
  - Projection method that uses a single DLP® chip to switch the red, green, and blue signals according to the color wheel. This method provides excellent color uniformity of images, durability, and is suitable for multiple projections and 24-hour use.

- **3 LCD Chips with Inorganic Alignment Layers**
  - Each chip is divided by a light prism into each of the three primary color chips instead of the light being directed into one unique chip. The light is then redirected and combined through the projector lens as the image. This 3-chip system makes images natural with vivid colors.

### Model Names and Display Systems

- **K Series**
  - CP-WU13K: 3-Chip DLP®
  - CP-WU10EB: 1-Chip DLP®
  - CP-WU120EB: 1-Chip DLP®
  - CP-WU9100B: 3-Chip DLP®
  - CP-WU9100W: 1-Chip DLP®
  - CP-WU9100B: 1-Chip DLP®
  - CP-X8111: 1-Chip DLP®
  - CP-X8110: 1-Chip DLP®

- **9000 Series**
  - CP-WU700EB: 3-Chip DLP®
  - CP-WU700EB: 1-Chip DLP®
  - CP-WX750EB: 1-Chip DLP®
  - CP-WX8650EB: 1-Chip DLP®
  - CP-X800EB: 3 LCD
  - CP-WU461: 3 LCD
  - CP-WU451: 3 LCD
  - CP-WX255A: 3 LCD
  - CP-X8170: 3 LCD
  - CP-X8160: 3 LCD

- **8000 Series**
  - CP-WU80EB: 3-Chip DLP®
  - CP-WU60EB: 1-Chip DLP®
  - CP-WX850EB: 1-Chip DLP®
  - CP-X800EB: 3 LCD
  - CP-WU8451: 3 LCD
  - CP-WX265: 3 LCD
  - CP-X815A: 3 LCD
  - CP-X8170: 3 LCD
  - CP-X8160: 3 LCD

- **5000 Series**
  - CP-WU50EB: 3-Chip DLP®
  - CP-WU50EB: 1-Chip DLP®
  - CP-WX50EB: 3 LCD
  - CP-WX50EB: 3 LCD
  - CP-X555: 3 LCD
  - CP-X555: 3 LCD
**3-Chip DLP**

Each chip is divided by a light prism into each of the three primary color chips instead of the light being directed into one unique chip. The light is then redirected and combined through the projector lens as the image. This 3-chip system makes images natural with vivid colors.

**4 Digital Inputs**

Digital Connectivity

The projector provides 4 digital inputs consisting of HDMI (+2), SDI, and DVI to handle many types of installation environments.

- **SDI**
  - Equipped with an SDI input, the standard in the broadcast industry. 3G SDI can transfer 1080P signals via a coaxial cable.

**Digital Connectivity**

4 Digital Inputs

- **Option lens**
  - FL-K01: Short throw lens (Zoom: x1.0)
  - FL-K02: Short throw lens (Zoom: x1.0)
  - SL-K03: Standard zoom lens (Zoom: x1.3)
  - ML-K04: Long throw zoom lens (Zoom: x1.3)
  - LL-K05: Ultra long throw zoom lens (Zoom: x1.6)

**K Series**

High Brightness and Image Quality

- **Full High-Definition (1,920 × 1,200)**
- **SDI**
- **WUXGA**

**Digital Connectivity**

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With a stable projection performance and high installability, the laser projector is suitable for various purposes.

### High Reliability and Stability

- **Long life 20,000 hours** Laser light source:
  
  Light source combined Blue laser diodes and Phosphor can achieve high brightness of 10,000 Lumens (LP-WU9100B) / 8,000 Lumens (LP-WU9750B). The projection image has a bright, clear, and vivid in color. Since lamp exchange is unnecessary, maintenance cost is reduced. Furthermore, you do not need to worry about lamp life, and it is fit for digital signage purposes that require long hours of continuous projection. Because the product does not use mercury lamps, it is eco-friendly.

- **Wide range of Color Reproduction**
  
  The color reproduction range is wide compared to lamp light projectors and projects brilliantly colored images.

### Interchangeable Lens Options

**Motorized Lens Shift**

The motorized lens shift lets you choose a more convenient installation location, even for large spaces.

**Ultra Short Throw fixed lens**

- All Glass lens
  
  FL-900 uses all glass lenses that reduce the blurring that occurs under changes between high and low temperatures.

- Ceiling mount HAS-404U
  
  Ceiling mount bracket with 6-axis adjustment mechanism. Adopting the Jack system, it is easy to adjust elevation.

**Dust resistant structure by sealed engine**

Reduces the invasion of dust and other particles in the air that decrease the brightness when they get attached to the optical parts. Reduces the decrease in brightness due to dust, resulting in a long lasting bright, clear, and vivid colored picture. Eliminates the intake filter and filter maintenance.

**Laser Power Level Control**

Power of the laser light source is controllable by every 1% step*.

You can adjust brightness of the projection image to fit the luminance of the environment and can save power consumption.

This feature helps you to adjust the similar brightness of projectors, for example, the side-by-side projection and edge blending applications.

### Advanced Installability

**Digital Connectivity**

Equipped with an SDI input, the standard in the broadcast industry. 3G SDI can transfer 1080P signals via a coaxial cable. Projectors provide 5 digital inputs: SDI, HDMI1/2, and DVI-D.

**360° Projection**

The projectors provide great installation flexibility as they can be installed at various angles*.

* The life of optical parts may shorten if the projector is installed with the lens facing downward or the IO connector side upward.

**Geometry Correction**

This feature enables to project pictures on spherical surfaces and surfaces with corners, as well as conventional flat screens. You can project a huge image even on a curved screen by using the edge blending function simultaneously.

The specialized application for geometry correction is required.

### High Image Quality and Visibility

**ACCENTUALIZER**

This function makes pictures look more real by enhancing (1) Shade, (2) Sharpness and (3) Gloss to make pictures clear. You can also adjust the effects by three levels according to your surroundings, (2) Sharpness and (3) Gloss to make pictures clear. You can also adjust the effects by three levels according to your surroundings, for example, the side-by-side projection and edge blending applications. (The adjustment range is 20~100% at Custom mode.)

**HDSCR (High Dynamic Contrast Range)**

When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

* Additional equipment may be required for this feature.
Models that are suitable for 24-hour use and capable of multi-projection using multiple projectors

High Image Quality and Visibility

Two color wheels are built in to match usage conditions. By switching the color wheel, you can achieve an image quality to match the projected image. Previously requiring the services of an expert, this feature allows you to switch the color wheel in about 10 seconds with the remote control without having to open the chassis to install the color wheel.

ACCENTUALIZER and HDCR

ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss, to make pictures cleaner. The HDCR function corrects blurred images caused by room lighting or outside light sources and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.

COLOR MANAGEMENT

This feature allows you to change the HUE, SATURATION, and LUMINANCE for each of 6 colors (red, green, blue, cyan, magenta, and yellow) without influencing each other. With this technology, for example, you can change only bluish colors, such as the sky, while maintaining the white colors.

Rich Color mode: Reproduces color in levels equivalent to digital cinema. Suitable for use in museums and for viewing videos that emphasize color.

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High Reliability and Stability

Equipped with the highly reliable Dual Lamp System. If one lamp stops functioning while using in the DUAL mode, the other lamp continues to project the image with no interruption in the projection. Also, long hours of continuous operation is possible. When the CYCLE TIME is set to 6 hours, the projector automatically switches to the backup lamp when the lamp time reaches 6 hours.

The status monitor is a sub-LCD located on the rear panel of the projector. It displays the present condition of the projector, including information, error messages, and other data.

Monitoring Projector Status

The projectors allow you to get the information displayed on the status monitor and more by your tablet or smartphone with the latest dedicated free online application when you need, even if you are not close to the projector.

Ultra Short Throw fixed lens

FL-910 uses all glass lenses that reduce the blurring that occurs under changes between high and low temperature.

Ceiling mount HSA-40U Ceiling mount bracket with 6-axis adjustment mechanism. Adjusting this Jack system, it is easy to adjust elevation.
8000 Series - High spec models
Seamless design and High image quality
Providing advanced functions and flexible installation features

High Image Quality and Visibility

**IMAGE OPTIMIZER**
Equipped with IMAGE OPTIMIZER that maintains visibility of an image through automatic image correction in accordance with lamp condition.
* This function may not work properly when HDCR and/or ACCENTUALIZER is ON.
* Comparison photos are simulations.

**COLOR MANAGEMENT**
This feature allows you to change the HUE, SATURATION, and LUMINANCE for each of 6 colors (red, green, blue, cyan, magenta, and yellow) without influencing each other. With this technology, for example, you can change only blush colors, such as the sky, while maintaining the other colors by adjusting the HUE of the blue.

**ACCENTUALIZER and HDCR**
ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss, to make pictures clearer. The HDCR function corrects blurred images caused by room lighting or outside light sources and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.
* Comparison photos are simulations.

Advanced Installability and System Features for Various Uses

**Geometry Correction**
Geometry correction is possible from your computer by using the specialized application. Projection is possible on spherical surfaces and surfaces with corners, as well as conventional flat screens.

**Corner call**
Curved screen

**Edge Blending**
The projectors are equipped with the Edge Blending function that achieves further seamless projection of one image using multiple projectors, and allow to project on a huge curved screen by using the geometry correction simultaneously.
* Additional equipment may be required for this feature.

Motorized Lens Shift
The motorized lens shift lets you choose more convenient installation locations, even for large spaces.
* The figure below shows the lens shift range for CP-WU8700W / CP-WU8700B / CP-WU8600W / CP-WU8600B / CP-WX8650W / CP-WX8600B with the optional middle throw lens ML-713 at the ceiling mounting position.

Digital Connectivity
Equipped with 2 HDMI input terminals for the current widely-used interface. In addition, these models have more rich digital connectivity, DisplayPort, HDBaseT™, and SDI™ input terminals.

Inorganic LCD panels
Hitch 3LCD projectors incorporate three LCD panels with inorganic alignment layers that are extremely light resistant, increasing brightness and contrast ratio. They provide smooth images and high reliability.

Seamless Design
With the terminal cover, you can install the projector seamlessly.
* You may not be able to attach the terminal cover when cables and devices are connected to the connectors other than the HDBaseT terminal.

Other Features

**Digital Connectivity**
HDBaseT™
**Input Source**
- Source Change
- Input change
- Resolution change
- Input Signal
- **Monitor Control**
- Reset
- Sleep
- **Keypad**
- Keypad ON
- Keypad OFF
- **Power Control**
- Power ON
- Power OFF
- **Data Clock**
- HDBaseT
- DisplayPort
- HDMI
- **Application**
- PowerApp
- Image App
- Text App
- Video App
- Audio App
- **Input Source**
- Projector Control
- Wireless capability (option)
- Easy Scheduling Setting, Network presentation, [Instalabbale]: Projector Control, Easy Scheduling Setting, Network presentation, [Instalabbale]
- Security: IP6 lock, IR lock, LAN lock
- Intranet
- Multi-language user menu, Direct LCD Base transmission, remote control, IR / BLK / FTN / HDBaseT transmission, Remote ID, Sending standby
Featuring a powerful 2.0× zoom lens, the projectors allow for a greater range of installation possibilities. This is particularly convenient in rooms that lack installation flexibility due to ceiling obstructions such as water sprinklers, vents, and lighting fixtures. A greater range of installation possibilities is possible, for example, you can install a projector to project onto a floor or ceiling. You can utilize the projectors in many different ways.

The entire image becomes dark.

The status monitor is a real by enhancing shade, sharpness, and gloss, equipped with IMAGE OPTIMIZER that maintains visibility of an image through smooth automatic image correction in accordance with lamp condition.

The projectors achieve a bright optical engine by adopting a short arc length lamp with a small F-number lens.

By aligning the center of the projector and lens, the installation position of the projector becomes simple during the design and construction of a facility.

The projectors have a DICOM® Simulation Mode. This mode simulates the DICOM® R standard, which is a standard applicable to digital communications in medicine, and is useful for displaying medical images such as X-rays. These projectors are not medical devices and are not compliant with the DICOM® R standard, and neither the projector nor the DICOM® Simulation Mode should be used for medical diagnosis.

The status monitor is a real by enhancing shade, sharpness, and gloss, equipped with IMAGE OPTIMIZER that maintains visibility of an image through smooth automatic image correction in accordance with lamp condition.

The motorized lens shift lets you choose more convenient installation locations, even for large spaces.

High Reliability and Stability

The lamp and filter are located on both sides, facilitating maintenance and replacement when the projector is installed on the ceiling. The serial number and MAC address are also labeled on the side chassis for easy readability.

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The lamp door and the filter cover are located on both sides, facilitating maintenance and replacement when the projector is installed on the ceiling. The serial number and MAC address are also labeled on the side chassis for easy readability.

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With a stable projection performance and high installability, the laser projector is suitable for various purposes.

**6000 Series**

**High Reliability and Stability**

Long life 20,000 hours* Laser light source

Light source combined Blue laser diodes and Phosphor can achieve 6,000 Lumens (LP-WU6600) / 5,000 Lumens (LP-WU6500). The projection image is bright, clear, and vivid in color. Since lamp exchange is unnecessary, maintenance cost is reduced. Furthermore, you do not need to worry about lamp life, and it is fit for digital signage purposes that require long hours of continuous projection. Because the product does not use mercury lamps, it is eco-friendly.

A wide range of light source life of 20,000 hours*, the LASER projector series is suitable for venues such as museums, restaurants and digital signage.

* For laser light source. Not a guaranteed value.

**Dust Resistant Optical Engine with Heat Pipe Cooling System**

Reduces the invasion of dust and other particles in the air that decreases the brightness when they get attached to the optical parts. Reduces the decrease in brightness due to dust, resulting in a long lasting bright, clear, and vivid colored picture. Eliminates the intake filter and filter maintenance. Achieved efficient cooling by adopting a heat pipe cooling system for the laser module. Contributes to the module's reliability due to its capabilities in reducing thermal stress.

**High Image Quality**

**The color reproduction range is wide compared to lamp projectors and projects brilliantly colored images.**

**DICOM® Simulation Mode**

This mode is suitable for viewing grayscale medical images, such as X-rays, for training and educational purposes.

DICOM® Simulation Mode

This projector is not a medical device and is not compliant with the DICOM™ standard, and neither the projector nor any images generated by it should be used for medical diagnosis.

**DICOM® Simulation Mode**

This chart shows LP-WU6600 characteristics.

**DICOM® Simulation Mode**

**DICOM® Simulation Mode**

**DICOM® Simulation Mode**

**DICOM® Simulation Mode**

**Powerful Zoom Lens**

Featuring a powerful manual zoom lens, the projectors allow for a greater range of installation possibilities.

Projection distance for 100 inch screen

100 inch Screen 1.65x Zoom 2.5m(97") - 4.1m(161")

LP-WU6600

LP-WU6500

* This figure is not drawn to scale.

**360° Projection**

The projectors provide great installation flexibility as they can be installed at various angles. By rotating the projector 90 degrees, you can project vertically long images (Portrait projection).2,3

* The life of optical parts may shorten if LP-WU6600 is installed with the lens facing downward or the I/O connector side upward, and if LP-WU6500 is installed at the P905/96T projection situation.

* This is an image of LP-WU6600.

**Digital Connectivity**

Equipped with HDBaseT™ input, capable of transmitting signals with no image degradation using a standard LAN cable (Cat5e or higher, shielded type) of up to approx. 100 m. Also, LP-WU6600 supports HDMI1/2 and DVI-D, and LP-WU6500 provides HDMI1/2/3 other than HDBaseT.

* This is an image of LP-WU6600.

**Advanced Installability**

**Power of laser light source is controllable by every 1% step*3. It allows the brightness of the projection image to fit in the luminaire environment and can save the power consumption. This feature helps you to adjust the similar brightness of projectors, for example, the side-by-side projection.**

*2 The life of optical parts may shorten if LP-WU6600 is installed with the lens facing downward or the IO connector side upward, and if LP-WU6500 is installed at the ceiling mounting position.

* The adjustment range is 25~100% at Custom Light mode.

**MHL® connectivity**

One of the HDMI input terminals of the projectors supports the MHL (Mobile High-Definition Link) feature that allows you to mirror the screen of your MHL-enabled smartphone or tablet on a projected screen.

* The figures are not drawn to scale.

**Lens Shift**

Manually shift the lens horizontally and vertically to position the image on the screen without causing keystone distortion.

* This figure shows the lens shift range for LP-WU6500 at the ceiling mounting position. The lens shift range of LP-WU6600 is -15 to 15/inchwise axis and +/-5/2/2(horizontal axis).

For more information, please see page 26.

* This figure shows the zoom range for LP-WU6500 at the ceiling mounting position.

**Digital Connectivity**

High Definition Link (HDMI) supports three kinds of optional lenses.

**Mirror**

**Phosphor**

**Color wheel**

**Dust Resistant Optical Engine with Heat Pipe Cooling System**

Light source combined Blue laser diodes and Phosphor can achieve 6,000 Lumens (LP-WU6600) / 5,000 Lumens (LP-WU6500). The projection image is bright, clear, and vivid in color. Since lamp exchange is unnecessary, maintenance cost is reduced. Furthermore, you do not need to worry about lamp life, and it is fit for digital signage purposes that require long hours of continuous projection. Because the product does not use mercury lamps, it is eco-friendly.

With an approximate light source life of 20,000 hours*, the LASER projector series is suitable for venues such as museums, restaurants and digital signage.

* For laser light source. Not a guaranteed value.
Providing advanced functions and flexible installation features. Projectors suitable for large meeting rooms or classrooms.

5000 Series

High Image Quality and Visibility

**HDCR (High Dynamic Contrast Range)**
When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

**IMAGE OPTIMIZER**
Equipped with IMAGE OPTIMIZER that maintains visibility of an image through automatic image correction in accordance with lamp condition. *This function may not work properly when HDCR and/or ACCENTUALIZER is ON.*

- *1 For CP-WU5506M / CP-WX5506M / CP-WU5505 / CP-WX5505: Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

Digital Connectivity

**HDMI IN / OUT**
Equipped with two HDMI IN and one HDMI OUT terminals. The HDMI OUT outputs the signal from HDMI1 or HDBaseT input terminal, and allows to connect the projectors in series in order to project the same images simultaneously.

**MHL® connectivity**
The projectors' HDMI1 input terminal supports the MHL (Mobile High-Definition Link). This feature allows you to mirror the screen of your MHL-enabled smartphone or tablet onto a projector.

Network

**Wireless Dual Band Support**
The projectors allow you to get the information on the projector's status by your tablet or smartphone with the latest dedicated free online application when you need even if you are not close to the projector.

**Network**
- CP-WU5506M / CP-WX5506M provide a stable wireless network environment by supporting wireless dual band (2.4GHz / 5GHz).
- *Available information depends on the model of projector. CP-WU5505 / CP-WX5505: Requires the optional USB wireless adapter USB-WL-11N supporting IEEE802.11b/g/n when you connect the projector via a wireless network.

Monitoring Projector Status

**Eco mode, Saving standby:**
- Projector Control, Wireless capability (option), Easy Scheduling Setting, Network presentation, Smart device control, [Installability]: Projector Control, Wireless capability (option), Easy Scheduling Setting, Network presentation, Smart device control, [Installability], Projector Control, Wireless capability (option), Easy Scheduling Setting, Network presentation, Smart device control, [Installability]

Other Features

**Eco mode, Saving standby:**
- PowerOn, Lamp Time, End of Lamp Life, Error Status/Temperature, [Usability]: PIN lock, Key lock, [Security]: Multi-language user menu, Direct Power On/Off, Magnify, PbyP / PinP, [Installability]: Easy Scheduling Setting, Network presentation, Smart device control, [Network]: Easy Scheduling Setting, Network presentation, Smart device control, [Other Features]: Easy Scheduling Setting, Network presentation, Smart device control

**HDCR (High Dynamic Contrast Range)**
When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

When stacking projectors, there are various precautions and function limitations you should be aware of. Please ask your dealer for details.

**1.7× Zoom**
- Lens shift

**Wireless Dual Band Support**
The projectors use a two-layer filter with an unwoven cloth and an HAF (High Air Flow) filter. The filter can last up to 10,000 hours without cleaning, reducing maintenance time.

- *5 Varies according to usage environment.

**Backup function**
When ALTERNATE is selected and an error occurs on one projector in operation, causing the lamp to turn off, the other projector in standby will automatically start to operate.

**Dual mode**
- Turns on the projectors alternately.

**Instant Stack**
- Lets you place one projector on top of another to project the same image from both onto a screen for added brightness. Overlaying the image is made easier with built-in tools including RS-232C control, Perfect Fit, Lens Shift, test pattern, and stacking alignment peg holes.

**Edge Blending & Warping**
The multiple projectors allow to project one image on a huge curved screen by using the geometry correction and the edge blending functions simultaneously.

**Projector Status by your tablet or smartphone**
- The projectors allow you to get the information on the projector’s status by your tablet or smartphone with the latest dedicated free online application when you need even if you are not close to the projector.

**Network Environment by Supporting Wireless Dual Band**
- IEEE802.11b/g/n when you connect the projector via a wireless network.

**Performance values:**
- *5 Available Performance values/Region/Model/Year/Max./Min.:

**Eco mode, Saving standby:**
- PowerOn, Lamp Time, End of Lamp Life, Error Status/Temperature, [Usability]: PIN lock, Key lock, [Security]: Multi-language user menu, Direct Power On/Off, Magnify, PbyP / PinP, [Installability]: Easy Scheduling Setting, Network presentation, Smart device control

**Wireless Dual Band Support**
The projectors provide a stable wireless network environment supported by wireless dual band (2.4GHz / 5GHz).

**Image Optimizer**
- Automatic image correction in accordance with lamp condition.

**Back up function**
- When ALTERNATE is selected and an error occurs on one projector in operation, the other projector in standby will automatically start to operate.

**Instant Stack**
- Lets you place one projector on top of another to project the same image from both onto a screen for added brightness. Overlaying the image is made easier with built-in tools including RS-232C control, Perfect Fit, Lens Shift, test pattern, and stacking alignment peg holes.

**Dual mode**
- Turns on the projectors alternately.

**Backup function**
- When ALTERNATE is selected and an error occurs on one projector in operation, the other projector in standby will automatically start to operate.
### Features

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| **High Image Quality and Visibility** | | | | | | | |
| ACCENTUALIZER | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| HDCR (High Dynamic Contrast Range) | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| IMAGE OPTIMIZER | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Color Management | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| 3-chip display device | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Built-in Dual Color Wheel | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| DICOM® Simulation Mode | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |

| **Installability and System Features** | | | | | | | |
| Edge Blending | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Geometry Correction (Warping) | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Perfect Fit | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Motorized Lens Shift | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Manual Lens Shift | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Interchangeable Lens Options | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Center Lens Design | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Picture Position (Picture Shift) | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Picture by Picture | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |

*CP-WU13K displays an image with the original input resolution of the source in the center of the screen.

1. Comparison photos are simulations.
2. *These projectors are not approved medical devices. They should not be used for actual medical diagnosis.*
3. *1 It enables to display images from 2 different digital inputs (HDMI2 and another) side-by-side.*
## Features

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</table>

*1 It enables display of images from 2 different digital inputs (HDMI2 and another) simultaneously.
*2 Available from the OSD menu on 9000 series models only. Set from a computer via a LAN connection.
*3 Extron XTP is not supported.
*4 For laser light source.
### Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>X Series</th>
<th>X Series 3000</th>
<th>6000 Series</th>
</tr>
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<tbody>
<tr>
<td><strong>Display size</strong></td>
<td>3-chip DLP®</td>
<td>Chip DLP®</td>
<td>Chip DLP®</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>Native: WUXGA</td>
<td>Native: WUXGA</td>
<td>Native: WUXGA</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>7,000 lumens</td>
<td>6,000 lumens</td>
<td>7,500 lumens</td>
</tr>
<tr>
<td><strong>Screen size</strong></td>
<td>80 ~ 500 inch (100 ~ 350 inch for the option lens FL-920)</td>
<td>50 ~ 600 inch (100 ~ 350 inch for the ultra short throw fixed lens FL-910)</td>
<td>30 ~ 600 inch (100 ~ 350 inch for the ultra short throw fixed lens FL-710)</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>465W × 2 lamp Laser diode</td>
<td>430W × 2 lamp</td>
<td>370W × 2 lamp</td>
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<tr>
<td><strong>Projection lens</strong></td>
<td>Optional (No lens included in the projector)</td>
<td>Optional (No lens included in the projector)</td>
<td>Optional (No lens included in the projector)</td>
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<tr>
<td><strong>Contrast ratio (full white / full black)</strong></td>
<td>2,000 : 1 (Dynamic Contrast) 30,000:1 (Dynamic Black setting is On) 20,000:1 (Dynamic Black setting is On) 2,500 : 1 (Picture mode: DYNAMIC, Active iris: THEATER) 10,000 : 1 (Presentation mode)</td>
<td></td>
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<tr>
<td><strong>Display area</strong></td>
<td>0.96&quot; × 3, aspect ratio: 16:10</td>
<td>0.67&quot; × 1, aspect ratio: 16:10</td>
<td>0.65&quot; × 1, aspect ratio: 16:9</td>
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<tr>
<td><strong>Power input</strong></td>
<td>AC100 - 130V / AC200 - 240V</td>
<td>AC100 - 130V / AC200 - 240V</td>
<td>AC100 - 130V / AC200 - 240V</td>
</tr>
<tr>
<td><strong>Terminals</strong></td>
<td>COMPUTER IN Mini D-sub 15-pin connector × 1</td>
<td>RJ-45 connector × 1</td>
<td>HDMI connector × 2</td>
</tr>
<tr>
<td><strong>Dimensions (W × H × D)</strong></td>
<td>19.7&quot; × 10.6&quot; × 8.7&quot;</td>
<td>19.7&quot; × 10.6&quot; × 8.7&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>37.5 lbs. (16.6kg)</td>
<td>24.5 lbs. (11.1kg)</td>
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</tr>
<tr>
<td><strong>Light output (Brightness)</strong></td>
<td>13,000 lumens</td>
<td>10,000 lumens</td>
<td>8,000 lumens</td>
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</table>

---

### Notes

1. * Native resolution is WUXGA.
2. * Native resolution is Full HD.
3. * Native resolution is WXGA.
4. * Native resolution is XGA.
5. * Native resolution is XGA.
6. * Native resolution is WXGA.
7. This interval depends on the environment.
## Specifications

### General
- **Model name:**
- **Features:** Filter cleaning interval: *6 20,000 hrs
- **Filter:** Free
- **Free:** 10,000 hrs

### Standard outside dimensions (W × H × D)
- **Computer WUXGA (max.)**
- **Standard:** 498mm × 135mm × 396mm (19.6” × 5.3” × 15.6”)

### Power consumption
- **AC100 - 120V:** 550W

### Operating temperature
- **0 ~ 45°C (32 ~ 113°F) at altitudes from 0 to 3,048 m (0 - 10,000 ft)
- **0 ~ 40°C (32 - 104°F) at altitudes from 760 m to 1,520 m (2,500 - 5,000 ft)

### Speaker
- **8W × 2 (stereo)**

### Display resolution
- **Computer Full HD (max.)**
- **WUXGA (max.)**

### Light output (Brightness)
- **6,000 lm**

### Screen size
- **30 ~ 600 inch**

### Weight
- **Approx. 9.2kg (20.3lbs.)**

### Display lens
- **Optional Middle throw lens (ML-703 equipped as standard)**

### Display device
- **Size of effective scanning frequency**

### DisplayPort
- **-**

### S-VIDEO MINI DIN 4-pin connector × 1
- **-**

### Connectors
- **LAN HDBaseT**
- **USB-B USB type B connector × 1**
- **USB mini type B (For service)**
- **-**
- **CONTROL IN (RS-232C) D-sub 9-pin connector × 1**
- **-**
- **MIC IN - - - -**
- **-**
- **AUDIO IN 2 RCA connector × 1 / 3.5mm (stereo) mini connector × 2**
- **3.5mm (stereo) mini connector × 1, RCA connector (L, R) × 1**
- **3.5mm mini connector × 1, RCA connector (L, R) × 1**
- **-**
- **DisplayPort - - - -**
- **-**
- **SDI IN / OUT - / - - - -**
- **-**
- **(Y, Cb/Pb, Cr/Pr) 3 RCA connector × 1**
- **Mini D-sub 15-pin connector × 1, 3BNC × 1**
- **-**
- **COMPONENT VIDEO S-VIDEO MINI DIN 4-pin connector × 1**
- **- - - -**
- **-**
- **MONITOR OUT Mini D-sub 15-pin connector × 1**
- **Mini D-sub 15-pin connector × 1**
- **-**
- **-**

### Focus
- **Manual**
- **Motorized**

### Zoom
- **Manual (1.65×)**
- **Manual (1.7×)**
- **Manual (1.6×)**

### Number of pixels
- **2,304,000 pixels (1,920 × 1,200)**
- **1,024,000 pixels (1,280 × 800)**
- **786,432 pixels (1,024 × 768)**

<table>
<thead>
<tr>
<th>Model Series</th>
<th>CP-WUX961</th>
<th>CP-WUX960</th>
<th>CP-WUX861A</th>
<th>CP-WUX860A</th>
<th>CP-W878E</th>
<th>CP-W878H</th>
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<tbody>
<tr>
<td><strong>Power requirements</strong></td>
<td><strong>AC100 - 120V</strong> : 480W</td>
<td><strong>AC100 - 120V</strong> : 470W</td>
<td><strong>AC100 - 120V</strong> : 455W</td>
<td><strong>AC220 - 240V</strong> : 420W</td>
<td><strong>AC220 - 240V</strong> : 410W</td>
<td><strong>AC220 - 240V</strong> : 400W</td>
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<tr>
<td><strong>Weight</strong></td>
<td><strong>Approx. 7.2kg (15.9lbs.)</strong></td>
<td><strong>Approx. 6.9kg (15.2lbs.)</strong></td>
<td><strong>Approx. 7.1kg (15.7lbs.)</strong></td>
<td><strong>Approx. 6.8kg (15.0lbs.)</strong></td>
<td><strong>Approx. 6.9kg (15.2lbs.)</strong></td>
<td><strong>Approx. 6.9kg (15.2lbs.)</strong></td>
</tr>
</tbody>
</table>

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1. *Native resolution is WXGA.
2. *Native resolution is WUXGA.
3. *Native resolution is XGA.

---

**Notes:**
- *HDMI IN1 supports MHL input.
- *HDMI connector × 3 (HDCP compliant)
- *'HDMI OUT' supports MHL output.
- *'HDMI OUT' supports MHL output.
- *'HDMI OUT' supports MHL output.
- *'HDMI OUT' supports MHL output.

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**Accessories:**

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**Features:**
- Filter cleaning interval: 20,000 hrs.
- Filter cleaning interval: Normal. 16,000 hrs.
- Filter cleaning interval: Normal. 14,000 hrs.

---

**Cautions:**
- *When using the projector outside of the specified environment, the brightness of the lamp may be reduced automatically over 35°C (95°F).*
- *When using the projector outside of the specified environment, the brightness of the lamp may be reduced automatically over 35°C (95°F).*
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**Trademark:**
- VGA, and other trademarks are registered in the United States and/or other countries by International Business Machines Corporation.
## Lens spec

### K Series

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<th>Model</th>
<th>Item</th>
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<th>Screen size</th>
<th>FL-701</th>
<th>SL-702</th>
<th>ML-703</th>
<th>LL-704</th>
<th>UL-705</th>
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### 9000 Series

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**Throw ratio**

- **0.8**
- **1.0**
- **1.2**
- **1.8**
- **1.7**
- **2.5**
- **2.5**
- **3.8**
- **3.6**
- **5.8**
- **5.7**
- **9.1**

**Screen size**

- FL-701
- SL-702
- ML-703
- LL-704
- UL-705

**Model**

- CP-WX9210
- CP-WX9211
- CP-HD9320
- CP-HD9950W
- CP-WU9410
- CP-WU9411
- LP-WU9100B

**Screen size**

- FL-701
- SL-702
- ML-703
- LL-704
- UL-705
### 6000 Series

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### 5000 Series

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### 9000 Series

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<td>3.8</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>CP-WX5600</td>
<td>150</td>
<td>3.2</td>
<td>127</td>
<td>2.0</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>CP-WX5600</td>
<td>120</td>
<td>2.6</td>
<td>102</td>
<td>1.6</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>CP-WX5600</td>
<td>100</td>
<td>2.2</td>
<td>85</td>
<td>1.3</td>
<td>53</td>
<td></td>
</tr>
</tbody>
</table>

### Projection Distance

#### Ultra short throw fixed lens

<table>
<thead>
<tr>
<th>Screen size</th>
<th>FL-910FL-910</th>
<th>FL-920FL-920</th>
<th>FL-710FL-710</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>4.3</td>
<td>170</td>
<td>2.7</td>
</tr>
<tr>
<td>150</td>
<td>3.2</td>
<td>127</td>
<td>2.0</td>
</tr>
<tr>
<td>120</td>
<td>2.6</td>
<td>102</td>
<td>1.6</td>
</tr>
<tr>
<td>100</td>
<td>2.2</td>
<td>85</td>
<td>1.3</td>
</tr>
</tbody>
</table>

#### Short throw fixed lens

<table>
<thead>
<tr>
<th>Screen size</th>
<th>FL-710FL-710</th>
<th>FL-720FL-720</th>
<th>FL-730FL-730</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>4.3</td>
<td>170</td>
<td>2.7</td>
</tr>
<tr>
<td>150</td>
<td>3.2</td>
<td>127</td>
<td>2.0</td>
</tr>
<tr>
<td>120</td>
<td>2.6</td>
<td>102</td>
<td>1.6</td>
</tr>
<tr>
<td>100</td>
<td>2.2</td>
<td>85</td>
<td>1.3</td>
</tr>
</tbody>
</table>

### Lens Shift (for upside-down installation)

- **Vertical or horizontal distance from the center of the projected image to the point where the lens axis intersects the screen.
- The illustrations on the left show the range of Lens Shift when the projector is installed upside down, such as on a ceiling mount.

### 8000 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Item</th>
<th>Screen size</th>
<th>H</th>
<th>V</th>
<th>H</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-WL6600</td>
<td>200</td>
<td>4.3</td>
<td>170</td>
<td>2.7</td>
<td>106</td>
<td></td>
</tr>
<tr>
<td>CP-WL6500</td>
<td>200</td>
<td>4.3</td>
<td>170</td>
<td>2.7</td>
<td>106</td>
<td></td>
</tr>
</tbody>
</table>

*Shaded area is supported by LP-WU6000B only.

*Shaded area is supported by LP-WU6500 only.

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## Case Studies

Hitachi projectors are utilized in various ways.

### Design and specifications are subject to change without notice.

- LCD panels, polarizers and other optical components, and cooling fans may need replacement after prolonged usage. For more details, please consult a Hitachi sales representative.

- Do not use in places where there is a lot of water, dampness, steam, dust, soot, or tobacco smoke. This may result in fire or malfunction.

- Optical components (light source, DLP®chip, LCD panel, polarizing plate, PBS [polarizer beam splitter]) and cooling fans have limited service lives.

- They must be repaired or replaced if they are used for a long period of time.

- The projectors other than LP-WU9100B, LP-WU9750B, LP-WU6600, and LP-WU6500 use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp’s power on and off frequently shortens its service life.

- Optical components other than the lamp: If the LCD projector is used for six hours or more per day, they may need to be replaced in less than a year.

- LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened.

- Do not turn the projector using lamp light source on again for ten minutes after shutdown. Neglect can shorten the lifetime of the lamp.

- During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot.

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