REALiS 4K600STZ / 4K600Z
4K LCOS PROJECTORS
CANON 4K LASER PROJECTION
FOR BRILLIANT COLORS AND
LONG-LASTING PERFORMANCE.

The REALiS 4K600STZ and REALiS 4K600Z LCOS Projectors bring together Canon 4K resolution with advanced laser light source technology for a closer-to-life experience with powerful, long-lasting performance in compact bodies. They meet the most demanding of challenges in industries such as simulation and training, museums and galleries, film and TV, and more. The laser light source increases the flexibility of installation, while a resolution that is even higher than 4K digital cinema will captivate audiences with flawless clarity, rich color and intense detail.

**SHARED FEATURES**

- 4K Resolution (4096 x 2400)
- Laser Light Source with up to 20,000* or More Hours (Lower Total Cost of Ownership)
- 6000 Lumens**
- Up to 10,000:1 Dynamic Contrast Ratio and up to 4000:1 Native Contrast Ratio***
- Genuine Canon 4K Lens
- Marginal Focus for Projecting on Spherically Domed Surfaces
- LCOS Technology with AISYS-enhancement
- Compact and Lightweight Design
- Dual Image Processing Engines for Uncompressed 4K 60p Playback

* This is an estimated value; actual hours may vary depending on usage and environment. This is not a guarantee of the life span of individual laser diodes.
** When in Presentation Mode.
*** When Iris function is set to “Close 3.”
BRIGHTER, SHARPER, CLOSER TO LIFE. INTENSIFY THE DETAIL.

**Native 4K Resolution (4096 x 2400)**

Eye-opening 4K resolution produces incredibly detailed, high-impact images that are much sharper and more true to life than lower resolutions. At 4096 x 2400, Canon's 4K resolution generates a larger, richer picture made up of more than 9.8 million pixels – higher than the Digital Cinema Initiative (DCI) standard for 4K cinema and more than QFHD, the resolution standard for 4K TV. When compared to popular Full HD, the native resolution of REALiS 4K600STZ and REALiS 4K600Z produces more than four times the resolution. This high resolution can help military, flight and other simulators produce highly accurate videos and images with a wide depth-of-field to get as close as possible to a real-life experience.

**Laser Light Source**

The REALIS 4K600STZ and REALIS 4K600Z projectors use a laser light source to help ensure deep and rich colors. The combination of a blue laser light source and reflective phosphor wheel produces a wide color gamut, enabling true color reproduction and bright, clear image quality that will take audiences even closer to a real-life experience.

The laser light is also highly efficient, allowing the projector to last up to 20,000 hours* with virtually no maintenance or downtime, or even up to 40,000 hours when using the projector's Long Duration modes.

**Up to 6000 Lumens and 10,000:1 Dynamic Contrast Ratio**

The REALIS 4K600STZ and REALIS 4K600Z project clear, bright images at up to 6000 lumens with a contrast ratio of up to 10,000:1 when the Dynamic Contrast Functions are used – and with a native contrast ratio of up to 4000:1**. This helps ensure deep blacks, bright whites and outstanding color, clarity, depth and dimension for high-quality images.

**LCOS Technology with AISYS-enhancement**

Canon's advanced AISYS Optical Engine (Aspectual Illumination System) maximizes the light source and performance of the LCOS (Liquid Crystal On Silicon) panels to produce high resolution, high brightness and high contrast. Where high level detail and clarity is vital, 6000 lumens of brightness and a contrast ratio of up to 10,000:1 when the Dynamic Contrast function is used (up to 4000:1 native contrast ratio)** help provide a high-quality image. In addition, three 0.76-inch LCOS panels create smooth, natural video and images with a fast response time when compared to other projection technologies. The result is an immersive 4K resolution picture with crisp detail and true-to-life color.

**Specialized Genuine Canon 4K Lens**

Drawing on Canon's advanced optical expertise, the specialized 4K zoom lens projects virtually distortion-free 4096 x 2400 resolution images. The REALIS 4K600STZ features a short focus wide zoom lens with a throw ratio of 1.0–1.3:1, while the REALIS 4K600Z provides a standard zoom lens with a throw ratio of 1.3–2.4:1.

The lens designs include the same bold red ring around the lens barrel as Canon's renowned L-series EF camera lenses, which are highly regarded among professional photographers and cinematographers as many of the industry's finest. The lenses themselves feature a multitude of sophisticated Canon technologies, such as dual-sided aspherical lens elements as well as Ultra Low Dispersion (UD) lens elements. These elements significantly reduce chromatic aberration, curvilinear distortion, ghosting and flare to create sharp and clear images in a compact size.

A deep depth of focus at F2.6** as well as a Marginal Focus feature allow images to be rendered highly accurately onto a variety of curved surfaces. The innovative Marginal Focus feature works on convex and concave screens, allowing the user to adjust focus on the peripheral areas of the screen while maintaining center focus (optical axis). This feature helps ensure the image is in focus from edge-to-edge, even on domed surfaces.

Where other projectors may distort or bow at the edges, Canon's optical technology keeps the image perimeter extremely straight with a significantly low TV distortion. This results in beautiful images with smooth edges.

Brightness remains virtually consistent at 6000 lumens throughout the entire zoom range, resulting in images that remain clear, strong and color-true whatever the projection distance.

**Other Technologies**

- No grid lines
- Seamless video rendering
- Virtually seamless out the precision and detail in the laser light source brings out the precision and detail in CAD drawings, 3D models and renderings. Virtually seamless images with low distortion will make content jump off the screen.

**DESIGN & ENGINEERING**

The combination of stunning 4K resolution and high-performance light output from the laser light source brings out the precision and detail in CAD drawings, 3D models and renderings. Virtually seamless images with low distortion will make content jump off the screen.

---

*This is an estimated value, actual hours may vary depending on usage and environment. This is not a guarantee of the life span of individual laser diodes.

**When Iris function is set to “Close 3.”

***F number of REALIS 4K600Z is F2.6–F2.75.
Rich colors along with high brightness and deep blacks ensure that videos and images retain their intended information. Combined with fluid and smooth 4K video playback at up to 60fps, the REALiS 4K600STZ and REALiS 4K600Z will help keep students focused, engaged and excited during presentations.

Powerful Dual Image Processing Engines

Canon’s advanced, powerful dual image processing engines produce exceptional video playback. The engines also allow the projector to offer a variety of features that help enhance the quality of still and motion images, making them more realistic and impactful. 4K Video Playback up to 60fps: Smoothly reproduces uncompressed 4K video at up to 60 frames per second for a natural, fluid feel and highly detailed, true-to-life content.

HDR Compatible

The REALIS 4K6000STZ and REALIS 4K6000Z support High Dynamic Range (HDR)™ exhibiting bright highlights and deep blacks for a wider dynamic range. The wider dynamic range expands the contrast and the color, both extremely important factors when it comes to the image. This, combined with highly detailed 4K resolution provides the ultimate viewing experience.

Motion Blur Reduction

The REALIS 4K6000STZ and REALIS 4K6000Z include Canon’s latest Motion Blur Reduction feature™ for improved visibility when movement is fast. By inserting extra frames to video content, motion blur is reduced and the clarity of graphics and text on fast-moving objects is preserved. Three different modes: STRONG, LOW and OFF are included for flexibility, with each depending on the level of movement and type of video content.

Multiple Image Modes

Select from six different pre-set image modes, as well as three customizable image modes, to help to best optimize quality based on content type and projection environment. Pre-set image modes are:

- Standard: Ideal for bright rooms, and when using content from computer screens or motion picture content.
- Presentation: Ideal for somewhat bright rooms when text needs to be clear, such as when part of a video presentation.
- Dynamic: Ideal for rooms that are somewhat bright, and when viewing motion picture content.
- Photo/sRGB: Ideal for projecting images from sRGB-supported digital cameras.
- Video: Ideal for rooms that are somewhat dark, and for video content.
- DICOM Simulation Mode™: Ideal for displaying medical images in non-diagnostic settings. Both Blue Base and Clear Base settings are supported.

Advanced Image Adjustments

The REALIS 4K6000STZ and REALIS 4K6000Z offer extensive image quality adjustments to suit a wide range of user preferences, providing greater flexibility to professional users with more options to adjust the image as desired.

- Dynamic Contrast: A function that determines the brightness of scenes by looking at the histogram of the image signal and then controls the light source and projector performance based on this information. This function, when applied, expresses up to a 10,000:1 contrast ratio.
- Colorimetry: Three color standard presets: BT.709, BT.2020 and Auto supports the video input of BT.2020 and BT.709 content.
- 6-axis Color Adjustment: This technology lets users fine-tune the hue, saturation and brightness of each of the primary and secondary colors, providing a high degree of control that can achieve each projected image a “masterpiece.”
- Dynamic Gamma™: When applied, this feature analyzes critical areas of the image for specific, independent contrast adjustment so lights and dark areas do not appear over or under exposed.
- Memory Color Correction: This Canon technology can be used as an important factor for rich, vivid results that look striking to the human eye.

HDR only works in sizes up to a certain size.

*HDR only works in sizes up to a certain size.
**When motion blur reduction is activated, brightness will be affected.
***This projector includes a DICOM Simulation Mode. It has not been cleared or approved for medical diagnosis and should not be used for these purposes.

DICOM Simulation Mode for medical education and training.
Up to 20,000* Hours or More Operation Hours

The laser light source of both projectors provides up to 20,000* hours in standard use of continuous, reliable, high-quality projection. The hours of operation can be nearly doubled when utilizing the Long Duration modes. Operation is virtually maintenance-free with minimal downtime, as the lamp does not need to be replaced, which is a key consideration for challenging and hard-to-reach installations. This helps keep running costs relatively low when looking at the total life of the products.

Multiple Operating Modes to Further Extend Projector Life

Four professional Work Modes make it possible to maximize the life of the projectors according to usage.

- **Normal**: In normal drive mode, the brightness will decrease with time.
- **Fixed Brightness**: Maintains nearly the same brightness set at installation. The Laser wear is detected by a sensor with current increased to compensate for wear.
- **Long Duration 1**: Increases the useful life of optical parts by reducing the brightness level of the laser and by regulation of the fan speed.
- **Long Duration 2**: Enables an even longer useful life of optical parts by further reducing the brightness level of the laser with even greater regulation of the fan speed.

Flexible Light Source Modes to Adjust Fan Noise as Needed

The laser light source allows independent adjustment of light output to reduce projector noise and cooling fan speed. When using multiple projectors to create large images with Edge Blending, this brightness adjustment also helps to achieve seamless results. The light source output and brightness for settings other than Normal are approximate values.

- **Normal**: Projects images at full brightness.
- **Quiet 1**: Reduces fan noise and brightness.
- **Quiet 2**: Reduces fan noise and brightness further.
- **Adjust**: Allows for variable adjustment of the brightness with fan speed adjusting automatically.

* This is an estimated value, actual hours may vary depending on usage and environment. This is not a guarantee of the life span of individual laser diodes.
** Replacement Criteria is 50% of Brightness
SIMULATION & TRAINING

A fast response rate with accurate colors and 4K resolution provide highly realistic scenarios for effective simulation and training. Compact size and omnidirectional projection helps to ensure flexible installation in a variety of spaces.

Quick Start Function
When Quick Start Function is set to ON the startup time is reduced to virtually 2 seconds* the next time the projectors are started from a high speed standby mode.

Positional Lock
This feature ensures specific installation settings such as Image Flip, Keystone Correction and Lens Position are not accidentally disturbed, saving users time from the inconvenience of reconfiguration.

Built-in Edge Blending
The Edge Blending function enables the user to combine multiple images to create a seamless, extra-wide projection. Advanced functions allow for color blending and black level adjustments to maximize image quality.

Advanced Registration
Advanced Registration allows independent position adjustment of the three primary colors (RGB) with high accuracy (0.1 pixel) ultimately reducing blurred colors or lines often projected at the edge of an image.

Micro Digital Image Shift
Micro Digital Image Shift function shifts the image electronically, using the surplus pixels on the LCOS panel.

4-point Key Stone Correction
Allows the corners of the image to be independently adjusted to help ensure optimal image reproduction.

Omnidirectional Projection
This feature allows the projection to be positioned anywhere, on any angle. A Menu Rotation function also enhances portrait projection, allowing adjustment of the angle of the projector’s menu up to 90 degrees, left and right. Sensors within the projectors sense the angle of the projectors and flip the image accordingly in increments of 90 degrees.

Motorized Lens Shift
Motorized vertical (±60%) and horizontal (±10%) lens shift allows for adjustment of the image with virtually no distortion. This model is also equipped with motorized zoom and focus for further convenience and ease.

Versatile Connectivity (HDMI 2.0a x 2, DVI-D x 4 and more)
Generous industry-standard connectivity on these projectors include two HDMI 2.0a inputs and four DVI-D inputs that permit various input options such as supporting single, stripe and cross configurations. The two HDMI 2.0a inputs support HDCP 2.2 encryption to ensure the latest compatibility, and help transmit 4K content such as Blu-ray at 60Hz over a single cable. Industry-standard control and networking inputs include a RJ-45 port, an RS-232 serial connection, Wi-Fi® support, a mini-jack that provides a trigger for screen operation and a mini-jack for connecting an optional hand-held wired remote controller. Connections also include stereo audio input and output.

Network Management
Compatibility with Crestron, AMX Device Discovery and Extron helps ensure seamless integration into most systems and infrastructures and smooth network management. Support for PJLink™ also makes it possible to control and monitor the projectors over a network – this feature is ideal for observing operation hours, usage and much more.

Low Power Consumption
These projectors use a relatively low amount of power per lumen. They offer multiple power-management settings that allow the user to preset stand-by durations, execute power operations and auto-assign functions to the power button. Multiple power-management settings also help to conserve projector life, allowing the user to preset stand-by durations and execute power on and off operations.

Real-Time Clock
A Real-Time Clock helps to conserve power and maximize the overall life of the projector. It can be configured for startups and shutdowns at scheduled times, minimizing unused operation and wasted energy.

* After 90 minutes from switching over to high speed standby mode.
ADVANCED WARRANTY EXCHANGE SERVICE PROGRAM (3-YEARS)
The Canon Advanced Warranty Exchange Service Program* provides you with an enhanced warranty service in addition to traditional "mail-in" repair service. The exchange program provides a replacement unit in exchange for your eligible inoperative Canon Projector if repair service is required during the product's limited warranty period.

SERVICE LOANER PROGRAM (3-YEARS)
The Canon Service Loaner Program* provides a loaner product in the event that your eligible Canon Projector is in need of repair during the limited warranty period. The loaner projector may be used while your inoperative unit is being serviced via Canon's "mail-in" repair service.

CUSTOMER SERVICE & TECHNICAL SUPPORT
• Dedicated Team of Industry Experts
• Industry-leading Response Times
• 100% U.S.-based Call Center

PRODUCT REPAIR AND MAINTENANCE
• State-of-the-Art Service Facilities
• Fast Repair Processing & Available Loaner Equipment
• Genuine Canon Parts
• Factory-level Quality

FOCUSED ON PROFESSIONALS
Whether you are a business of one, an organization of many or somewhere in between, working professionals need service and support they can count on. Canon provides skilled technicians to support our entire line of professional projectors. This small group of dedicated professionals has years of experience assisting customers with every aspect of their A/V needs. From the simplest of setups, to the most complex configurations, we are here to answer your questions.

ACCESSORIES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>REMOTE CONTROLLERS</th>
<th>REPLACEMENT AIR FILTERS</th>
<th>MOUNTS &amp; ADAPTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEM</td>
<td>CODE</td>
<td>ITEM CODE</td>
<td>ITEM CODE</td>
</tr>
<tr>
<td>Remote Controller RS-RC04</td>
<td>4970B001</td>
<td>Remote Controller RS-RC05</td>
<td>5750B001</td>
</tr>
<tr>
<td>Ceiling Attachment Arm RS-CL17</td>
<td>21485001</td>
<td>Ceiling Attachment Arm RS-CL17*</td>
<td>30645001</td>
</tr>
<tr>
<td>Ceiling Extension RS-CL06</td>
<td>30646001</td>
<td>Ceiling Extension RS-CL08</td>
<td>30775001</td>
</tr>
</tbody>
</table>

*RS-CL15 and RS-CL17 are used together to mount compatible models on a ceiling.

FREE EVALUATION DEMOS & LOANS
When it comes to projector image quality comparisons ("shootouts"), Canon projectors win virtually every time. See it to believe it. Contact us and we can schedule a visit for an in-person demonstration, or send a projector for your own testing purposes.

SALES CONTACTS
Get in touch with the Canon Projector Account Manager that covers your state. Our representatives can answer your questions regarding Canon projectors, schedule a visit/demo and provide information on where our products can be purchased.

For your sales contact please visit our interactive sales map: PROJECTORS.USA.CANON.COM/SALES

WHEN IT COMES TO PROJECTION, CANON HAS SEEN IT ALL. Canon projectors are used in virtually every industry across the globe, and in every type of space. From boardrooms to auditoriums, from classrooms to convention centers, Canon projectors are trusted to deliver exceptional image quality and performance. Whether you’re looking for a high-performance projector for everyday use or one that can handle the most demanding applications, Canon has the right solution for your needs.