**SPECIFICATIONS**

**PROJECTION SYSTEM**

- Imaging Device: 0.76" LCOS Panel x3
- Aspect Ratio: 16:10 Approx.
- Native Resolution: 4096 x 2160
- Brightness: 5500 Lumens (Full Power) / 3750 Lumens (Power Save)
- Contrast: 3000:1 (Full white, full black; Presentation Mode)
- Image Size: 40 - 600"
- Digital Keystone: V±60%, H±10% (Powered)
- Lens Shift: V±20°, H±20°
- Image Mode: Standard / Presentation / Dynamic / Photo/sRGB / Video
- Zoom Ratio: 1.3x
- Throw Ratio: 1.0 – 1.3:1
- Focus: Powered
- Lens: F2.6, f=17.2 – 22.3mm
- Uniformity: 3000:1 (Full white, full black; Presentation Mode)
- Digital Keystone: V±20°, H±20°
- Lens Shift: V±60%, H±10% (Powered)

**DIMENSIONS**

- Dimensions (W x H x D): 14°F – 140°F (-10°C – 60°C)
- Storage Temperature: 32°F – 104°F (0°C – 40°C, 20%RH – 85%RH)
- Power Voltage: AC 100 – 240V, 50 / 60 Hz
- Fan Noise: 600 / 470W
- Lamp Power: 400 / 300W
- Life: 3000 Hours (Full Power) / 4000 Hours (Eco)
- Weight: 38.8 lbs.

**TERMINALS**

- HDMI (1 x 2)
- DVI-D (1 x 1)
- RS-232C
- RJ-45
- D-sub9 (Control)
- RS-232C Connection
- Network Connection (1000BASE-T / 100BASE-TX / 10BASE-T)
- HDMI
- Digital PC / Digital Video Input (x2)
- Digital PC Input (x4)
- DVI-D
- DVI-D x 4
- Audio In
- Audio Out
- Audio Input (x1) / Audio Output (x1)

**REMOTE CONTROL**

- Remote Control RS-RC05 (same as supplied) 5750B001
- Remote Control RS-RC04 4970B001
- Ceiling Pipe (600 – 1000mm) RS-CL09 3097B001
- Ceiling Pipe (400 – 600mm) RS-CL08 3096B001
- Ceiling Attachment RS-CL15 0964C001
- Replacement Air Filter RS-FL03 0963C001
- Replacement Lamp & Air Filter RS-LP10F 1286C001

**WHAT'S IN THE BOX**

- Projector
- Lens Cap
- Power Cord
- Warranty Card
- User’s Manual (CD-ROM)
- Important Information (book)

**ACCESSORIES**

- Replacement Lamp & Air Filter RS-LP10F 1286C001
- Replacement Remote Control RS-HC03 (includes Batteries)

**4K500ST**

- Item Code: 5005C002
- UPC Code: 013803266467

**RATINGS**

- Lamp: 255W A Bottom
- Lamp Mode: Full Power / Power Saver
- Light adjust: 1000 Hours (Full Power) / 4000 Hours (Eco)
- Lamp Power: 400 / 300W
- Standby Power: 39 / 34dB
- Power Consumption: 60W
- Power Consumption: 10W
- Operating Temperature: 14°F – 104°F (-10°C – 40°C)
- Storage Temperature: 32°F – 104°F (0°C – 40°C, 20%RH – 85%RH)
- Dimensions (W x H x D): 18.5" x 6.9" x 21"
The REALiS 4K500ST brings true-to-life 4K resolution to the top of Canon’s LCOS projector line. It combines Canon’s LCOS Technology with AISYS-enhancement, and advanced Genuine Canon optics, to set a new standard in detail and clarity within a compact and lightweight design.

- **4K Resolution (4096 x 2400):** Higher than 4K Digital Cinema Initiative (DCI) 4096 x 2160, and Quad Full High Definition (QFHD) 3840 x 2160 resolutions.
- **5000 Lumens* with up to 3000:1 Contrast Ratio:** Deep black levels and bright whites create content with outstanding depth and dimension.
- **Genuine Canon Optics:** Specialized 4K short focus wide zoom lens produces virtually distortion-free 4K resolution projection with consistent brightness maintained at virtually every distance.
- **Compact and Lightweight Size:** Offers unique installation opportunities and flexibility.
- **Powerful Dual Video Engines:** Uncompressed 4K 60 fps video playback, and optimal image upscaling to help maximize the quality of non-native 4K resolution content.

### 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 bigger, richer picture made up of more than 9.8 million pixels — higher than the Digital Cinema Initiative (DCI) standard for 4K cinema (4096 x 2160) and more than QFHD (3840 x 2160), the resolution standard for 4K TV. When compared to popular Full HD (1920 x 1080), the 4K500ST produces more than four times the detail. This high resolution can help military, flight and other simulators produce highly accurate video and images with a wide depth-of-field to get as close as possible to a real life experience.

* When in Presentation Mode and lamp is set to Full Power Mode.
REALISTIC “LIFE-LIKE” IMAGES, ALIVE WITH DETAIL

Genuine Canon Optics

Drawing on Canon’s advanced optical expertise, the specialized 4K short focus wide zoom lens projects virtually distortion-free 4096 x 2400 resolution images. A throw ratio of 10:1.31 means a 10 foot wide image can be projected from an approximate distance of only 10 feet away. The design includes 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 as many of the industry’s finest. The lens itself features 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 new Marginal Focus feature allow images to be rendered highly accurately onto a variety of curved surfaces. Where other projectors may distort or bow at the edges, Canon’s optical technology keeps the image periphery extremely straight with a significantly low TV distortion. This results in beautifully images with smooth edges. Brightness remains virtually consistent at 5000 lumens throughout the 1.3x zoom range, resulting in images that remain clear, strong and color-true whatever the projection distance.

Next Generation 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, 5000 lumens of brightness and a contract ratio of up to 3000:1 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.

Enhanced Image Processing Technologies

Canon’s advanced, powerful dual image processing engines produce exceptional video playback. The engines also incorporate a variety of features available to help enhance the quality of still and motion images, making them more realistic and impactful.

- **Video Playback (4K 60p, 4K 30p)**: Smoothly reproduces uncompressed 4K video at 60 or 30 frames per second for a natural, fluid feel and highly detailed, true-to-life content.
- **Upscaling**: Non-4K content can be displayed by utilizing two scaling functions of BiCubic and Canon’s Shape Trace – which can detect contours of an image in a diagonal direction and performs interpolation, resulting in a stunningly smooth image.
- **Dynamic Gamma**: When applied, this feature analyzes individual areas of the image for specific, independent contrast adjustment so light and dark areas do not appear over or under exposed.
- **Memory Color Correction**: This Canon technology can be used to enhance skin tones and other color features for rich, vivid results that look striking to the human eye.

Motion Blur Reduction Function

Advanced image adjustments 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.

Low Frame Delay

Effective simulation and training depends on realistic video with low latency – images that refresh as quickly as possible with minimal lag time. A relatively small frame delay helps to create an immersive, life-like experience. Response times are fast so if a frame pilot activates a cockpit control, for example, the corresponding video picture will respond quickly for a real-life look and feel.

**When motion blur reduction is activated brightness will be affected.**

**5000 LUMENS**
Without Marginal Focus
With Marginal Focus Adjustment
Corner area
Center area
Use the markers to overlap the images
Built-in Edge Blending
Creates a beautiful multi-projection

Advanced Professional Settings
A variety of advanced installation settings provide added customization options for challenging installation areas.

• Motorized Lens Shift (V: ±60%, H: ±10%): Makes it possible to easily adjust the vertical and horizontal positioning of the projected image.

• 4-point Keystone Correction: Allows the corners of the image to be independently adjusted to help ensure optimal image reproduction.

• Built-in Edge Blending: Enables the projection of one seamless, large image from multiple projectors without the need of special software.

• 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.

360-degree Vertical Installation
360-degree projection◊◊ allows the projector to be positioned anywhere on the vertical axis. Fan speed can also be adjusted to help optimize results (depending on projector positioning).

Versatile Connectivity
Generous industry-standard connectivity on the 4K500ST includes four DVI inputs and two HDMI inputs that permit various input options such as supporting single, stripe and cross configurations.

Crestron and AMX Device Compatibility
For extra control and seamless integration into existing systems, the projector is compatible with Crestron Room View, AMX Device Discovery, PJLink and others.

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

Peace of Mind
The 4K500ST is backed by the Canon 3-Year Projector and Lamp Limited Warranty (120 day lamp coverage), and the company’s award-winning Professional Service & Support which includes a 3-Year Advanced Warranty Service Exchange Program and a Service Loaner Program.

◊ The REALiS 4K500ST is not cleared or approved for medical diagnosis and should not be used for these purposes.
◊◊ When standing the projector straight up or down, lamp life may be shortened.
### PROJECTION SYSTEM
- **Image Device**: 0.72” LCOS Panel x3
- **Aspect Ratio**: 16:10
- **Native Resolution**: 4096 x 2048
- **Brightness**: 5000 lumens (Full Power) / 3735 lumens (Power Saver)
- **Contrast (Contrast MFR)**: 3000:1 (Full white, full black; Presentation Mode)
- **Image Size**: 40 – 200” (800 x 476 / 1024 x 700) / 2500 x 1080 / 4000 x 864 / 800 x 476 / 1024 x 700
- **Digital Keystone**: ±60% (Powered) / ±20° (Digital)
- **Throw Ratio**: 1.3x
- **Zoom Ratio**: 1.0 – 1.3:1
- **Focus**: Powered

### Dimensions
- **Weight**: 38.8 lbs.
- **Dimensions (W x H x D)**: 18.5” x 6.9” x 21”
- **Operating Temperature**: 32°F – 104°F (0°C – 40°C, 20%RH – 85%RH)
- **Storage Temperature**: 14°F – 140°F (-10°C – 60°C)
- **Power Voltage**: AC 100 – 240V, 50 / 60 Hz
- **Power Consumption**: 400 / 340W
- **Standby Power**: 0.8 / 0.4W
- **Lamp Power**: 600 / 470W
- **Lamp Life**: 3000 Hours (Full Power) / 4000 Hours (Eco)
- **Fan Noise**: 60 / 47dB
- **Internal Speaker**: 5W, Monaural
- **Scanning Frequency**: H: 18.000 kHz – 149.096 kHz, V: 23.956 Hz – 60.000 Hz

### IMAGE SIGNALS
- **HDMI (x 2)**: 4096 x 2160 / 3840 x 2160 / 3200 x 2160 / 4096 x 2304 / 3840 x 2160 / 2500 x 1080 / 2048 x 1080 / 2560 x 1440 / 1920 x 1080
- **HDMI (x 4)**: 1366 x 768 / 1024 x 768 / 1280 x 720 / 800 x 600 / 640 x 480
- **DVI-D (1 x 4)**: 3840 x 2160 / 3200 x 2160 / 4096 x 2304 / 4096 x 2160 / 3840 x 2160

### IMAGE ADJUSTMENTS
- **Image Mode**: Standard / Presentation / Native / Photo / Movie / Video / DICOM / User 1 / User 2 / User 3
- **Color Adjustment**: Color Level, Color Balance, Color Temperature, Gain(R,G,B), Offset (R,G,B)
- **Screen Color Correction**: Normal / Greenboard / Adjust (custom)
- **Mounting**: 360° projection
- **Adjustable Feet**: Four locations at bottom. Extension length = 0.47”
- **Offset (R,G,B)**: V±20°, H±20°
- **Digital Keystone**: ±20°

### REMOTE CONTROL
- **Remote Control**: Yes
- **Wired Remote Control**: USB
- **Wireless Remote Control**: RS-RC05 (same as supplied)

### WHAT’S IN THE BOX
- • Projector
- • Lens Cap
- • User’s Manual (CD-ROM)
- • Important Information (book)
- • Warranty Card

### ACCESSORIES
- **Replacement Lamp & Air Filter**: RS-LP10F (1286C001)
- **Replacement Air Filter**: RS-FL03 (0963C001)
- **Replacement Air Filter Kit**: RS-LF10F (0964C001)
- **Ceiling Attachment**: RS-CL15 (0964C001)
- **Ceiling Pipe (400 – 600mm)**: RS-CL08 (3096B001)
- **Ceiling Pipe (600 – 1000mm)**: RS-CL09 (3097B001)
- **Projector Remote Control RS-RC05 (includes two AA batteries)**: 5750B001
- **Warranty Card**: 1286C001

### SPECIFICATIONS

#### TERMINALS
- **DIGITAL**: Digital/PC input [4]
- **HDMI**: DigitalPC / Digital Video input [3]
- **RS-45**: Network Connection (10MOM: 1 / 100BASE-TX / 100BASE-T)
- **DVI-1 (2 x 2)**: DVI-D (2 x 2)
- **4096 x 2160 / 3840 x 2160 / 3200 x 2160 / 4096 x 2304 / 4096 x 2160 / 3840 x 2160 / 2500 x 1080 / 2048 x 1080 / 2560 x 1440 / 1920 x 1080
- **DVI-1 (1 x 2)**: DVI-D (1 x 2)
- **4096 x 2160 / 3840 x 2160 / 3200 x 2160 / 4096 x 2304 / 4096 x 2160 / 3840 x 2160 / 2500 x 1080 / 2048 x 1080 / 2560 x 1440 / 1920 x 1080
- **DVI-1 (1 x 4)**: DVI-D (1 x 4)
- **4096 x 2400 / 3000 x 2100 / 4096 x 2100 / 4096 x 2048 / 800 x 476 / 1024 x 700
- **DVI-2 (2 x 2)**: DVI-D (2 x 2)
- **4096 x 2160 / 3840 x 2160 / 3200 x 2160 / 4096 x 2304 / 4096 x 2160 / 3840 x 2160 / 2500 x 1080 / 2048 x 1080 / 2560 x 1440 / 1920 x 1080

### CONNECTABILITY
- **Audio In**: Front (2 x 1) / Rear (2 x 1)
- **Audio Out**: Front (2 x 1) / Rear (2 x 1)
- **HDMI**: HDMI (2 x 2) / HDMI (x 2) / HDMI (1 x 2)
- **RS-232C**: D-sub9 (Control)
- **RJ-45**: Network Connection (1000BASE-T / 100BASE-TX / 10BASE-T)
- **Network Connection (1000BASE-T / 100BASE-TX / 10BASE-T)**
- **Digital PC / Digital Video Input (x2)**: HDMI
- **Digital PC Input (x4)**: DVI-D

### BUILT-IN SOUND
- **Internal Speaker**: 5W, Monaural

### PROCTORS.USA.CANON.COM  |  1-800-DX-CANON
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