



LCOS Projectors Engineered For Superior Color and Detail



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The Difference is in The Details

Canon's REALIS brand projectors feature LCOS (liquid crystal on silicon) technology, recently described by a leading trade magazine as "sort of a 'best of breed' combination of LCD and DLP technologies." LCOS technology produces lattice-free seamless images, and unlike LCD has no "screen door effect" to mute color and detail. LCOS technology has been highly coveted for providing exceptional color, intricate details,

easy-to-read type (as small as 7 pt.) and "HD images that jump out at the viewer in breathtaking quality," making it the ideal projector for demanding uses and applications. These include medical image presentations, display of CAD engineering drawings and blueprints, faithful color reproduction of professional photography, as well as countless uses for business, higher education and government.

REALIS LCOS Projectors vs. Transmissive LCD Projectors

The surface area of each pixel in Transmissive LCD projectors is small, creating an overall grid-like lattice effect ("screen door effect"), which results in muted colors and text that appears faint and uneven. REALIS LCOS projectors have minimal gaps between the pixels, creating color-rich, detailed images, and text that appears dark and crisp. The advantages are easy to see:

LCOS vs. DLP —

LCOS Technology displays even subtle color gradation and tones of black and grey, which enhance visual accuracy, while DLP has a limited grey scale.

Display of Fine Lines

Display of fine lines: CAD images, blueprints, and fine lines are reproduced smoothly and accurately with REALIS high-resolution projectors.





Display of Small Text

By using more pixels for each letter, REALiS projectors can display easy-to-read type, as small as 7 pt. often illegible on LCD-based XGA projectors.





Display of Fine Grained Objects

REALIS lattice-free images ensures smooth, crisp displays of fine grained objects, including metallic surfaces, typically dulled by LCD projectors.





Display of Color and Detail

REALIS SXGA+ models can be presented with exceptional color and intricate detail.





Illumination

Optical System

Creates highly uniform light

Canon's LCOS Projectors: What's Behind "Color-So-Real?"

LCOS Reflective LCD Panels

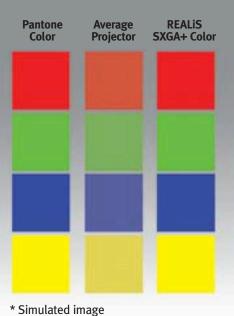
(Liquid Crystal On Silicon)

The Secret is AISYS-Enhanced LCOS Technology

Canon's proprietary AISYS optical system enhances LCOS technology to achieve crisp, color-rich, intricately-detailed images by efficiently utilizing and equalizing light from the projector lamp. This unique technology effectively boosts the performance functions of brightness and contrast to optimize image quality, in a more compact housing that

maximizes affordability. New Optical elements were incorporated into the illumination optical system to enhance uniformity of light. The Polarizing Beam Splitters (PBS) in the color separation and recombination system were redesigned for more precise light control resulting in a new standard in bright, beautiful, high-contrast projected images.

Engineered for Superior Color*



Advantages of the AISYS Optical System

Seamless image
 High Contrast
 Compact Size
 High Definition
 Accurate Color Reproduction
 Brightness

Color Separation/
Recombination System
Newly developed optical PBS for color separation with a new layout boosts the brightness of the projected image





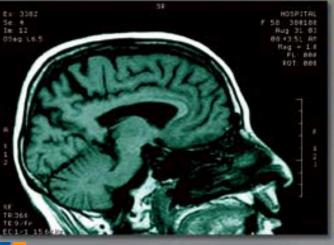


Professional Photography

Medical Imaging

Engineering Design







Color coded models recommended for this application.







- SXGA+ (1400 x1050)
- LCOS and AISYS Improved
- 1.7x Powered Zoom Lens
- 4000 ANSI Lumens
- 1000:1 Contrast Ratio
- Adobe RGB Color Match System
- Auto Set-up







- SXGA+ (1400x1050)
- LCOS and AISYS Improved
- 1.7x Powered Zoom Lens
- 3500 ANSI Lumens
- 1000:1 Contrast Ratio
- Adobe RGB Color Match System
- Auto Set-up

Higher Education

Government

Business











REALIS SX60



- SXGA+ (1400x1050)
- . LCOS and AISYS Improved
- 1.7x Powered Zoom Lens
- 2500 ANSI Lumens
- 1000:1/2000:1 Contrast Ratio
- Home Cinema Mode
- Auto Set-up
- Screen Aspect Modes
- HDCP Compliant

REALIS X700

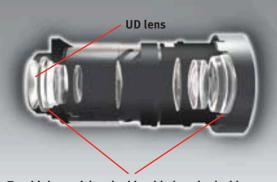
- XGA (1024 x768)
- LCOS and AISYS Improved
- 1.7x Powered Zoom Lens
- 4000 ANSI Lumens
- 1000:1 Contrast Ratio

Engineered for Precise Color and Detail.

SX6 SX(

The REALIS Advantage

Canon's two new LCOS Multimedia Projectors, the REALIS SX7 and REALIS X700 join the REALIS SX6 and REALIS SX60 offering an impressive line-up of high and super-high (SXGA+) resolution projectors. Whether the projectors are being used by medical or engineering professionals displaying intricately-detailed, color-rich images; professional photographers or graphic artists needing to precisely match Adobe RGB color; business people or educators presenting charts and images in stunning detail; government or security users requiring exacting imagery; or even discerning home theatre enthusiasts, Canon's new REALIS Multimedia Projector line provides the features and performance to exceed their quality expectations.



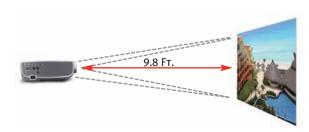
Two high-precision double-sided aspherical lenses

Genuine Canon Optics 1.7x Power Zoom Lens

Canon's SX7, SX6, SX60 and X700 are equipped with a 1.7X Powered Zoom Lens. The lens configuration is a six-group assembly with 12 elements and four moving groups, featuring one UD lens and two high-precision double-sided aspherical lenses.

Throw Distance

The 1.7x Ultra-Wide Powered Zoom Lens has the widest zoom range of any of Canon's projector lenses, giving you a diagonal screen size range of 40" (at a very short distance of 3.9') to 100" at 9.8' and up to 300" maximum. (See chart page 11.)



Placement for projection on a 100-inch screen.

Auto Set-up



Press Auto Set, and within seconds your input source is connected, distortion corrected, focus sharpened and color balanced.



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Auto Keystone

Automatically calculates the angle of the projector and corrects for image distortion. Vertical (±20°).



Auto Screen Color

Automatically adjusts the color balance according to the projection surface's color.





Auto Focus

An infrared sensor on the front of the unit measures the distance to the screen and adjusts the focus in as quickly as one second.

Auto Input

Automatically detects the image signal from the input terminal, identifies it as the input signal and selects it for display.

Input Signal		Terminal
Digital PC	•	DVI-I
Digital Video	•	DVI-I
Analog PC	•	DVI-I, Mini D-sub 15
Component	•	Mini D-sub 15
SCART	•	Mini D-sub 15
Video	•	RCA signal
S-Video		Mini DIN4

Super-High (SXGA+) Resolution (SXGA+ models only)

SXGA+ can project 3.1 times the display area of SVGA and 1.9 times the area of XGA to clearly display large amounts of detailed information, such as simultaneous projection of multiple PC windows (SX7, SX6, SX60).



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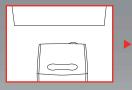
All REALIS models are equipped with an internal charging system to run the fan. This makes it possible to unplug the projector right after using it, while the internal charging system keeps the fan running.

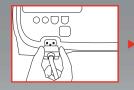


Internal charging system for cooling fan.



When presentation is finished, the unit can be unplugged immediately.







Direct Power On

All REALIS models can be switched on and off from a central control terminal without actually pressing the buttons on the main unit, permitting remote operation when the projector is mounted overhead. It is also possible to control the power supply by simply connecting or disconnecting the power cable.

When Direct Power setting is 'On', the projector starts up automatically when power is supplied and is ready to display images in approx. 20 seconds.

AC Projector Lamp

The REALIS SX7 and X700 models feature a newly engineered AC Lamp that effectively boosts the purity of the projected reds and greens (see chart at right) and provides superior color and longer life. This results in noticeably more vivid images and greater overall value.

Enhanced purity of reds and greens Luminous spectrum of DC & AC lamps Luminous energy

Feature-Rich Technology Engineered For Excellence.

Audio input & output sx7 x700

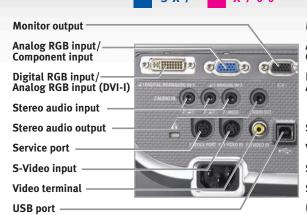


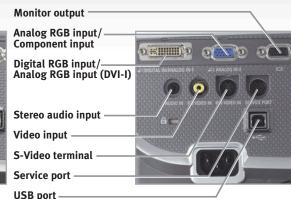




Audio input source switches automatically to match the image signal input source. Audio output terminals permit connection to external audio devices making it easy to control sound levels from the projector's remote control unit.

Compatible with a variety of image input signals, including HDTV





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Incredibly True Color: Display "Superior" and Highly Accurate Adobe RGB and sRGB Color

REALIS SX7 and SX6 have been engineered to project HD-quality color with exceptional accuracy and detail in Adobe RGB and sRGB modes, using a sophisticated Canon color management technology initially developed for printers. REALIS SX7, SX6 and SX60 display expanded color space



using proprietary color filters incorporated in the AISYS optical system. The SX6 filter enables 100% support of sRGB (SX7 requires no filter) and virtually accurate reproduction of Adobe RGB. The SX60 Cinema filter makes it possible to display the original colors of the film before conversion to video.

Home Cinema Mode

The SX60 multimedia projector is equipped with a home cinema filter making it ideal for this application.



Crisp Blacks Create Rich Shadow Detail

Precise control prevents excess light leakage, producing rich, detailed gradation

even in shadowed portions of projected images. And the crisp blacks produced by the LCOS reflective panels create images with realistic depth and dimension.

Conventional Home Use Projector

SX60



Screen Aspect Modes

Now anyone who owns a 4:3 or 16:9 screen can enjoy the spectacular HD-like quality of Canon's REALIS projectors by picking the aspect mode to match your screen ratio.

16:9 Screen Aspect Mode

4:3 content



Watch 4:3 content on a 16:9 screen



Watch 16:9 content on a 16:9 screen

16:9 Digital Image Shift







Digital Image Shift UP



Digital Image Shift DOWN

Dynamic Gamma

When dynamic gamma is 'On' gamma is automatically adjusted to optimum values. When

Advanced adjustment ▶0ff 6-axis color adjust

projecting moving images with rapid shifts in brightness, each frame is displayed with optimum contrast balance to prevent washed-out whites and blocked-up blacks.













In bright scenes, gamma is adjusted according to the brightness, automatically compensating for washed-out areas and reproducing gradation in the bright sections.



adjusted for the entire image, including dark sections, minimizing blocked-up shadows.









Image Modes

Select the image mode to suit the characteristics of the content: "Presentation" mode for briefings and conferences, "Adobe RGB" or "sRGB" when color reproduction is critical, etc.

Standard

Prioritizes reproduction of white, closely matching the image characteristics of the original

Presentation

Produces a bright, high-contrast display for ease of viewing text and numerical data

Movie

Suitable for displaying theatrical content; image quality emphasizes gradations in dark areas

Movie & Photo

For display of video and digital camera images; clearly defines gradations and improves color reproduction

Adobe RGB

sRGB

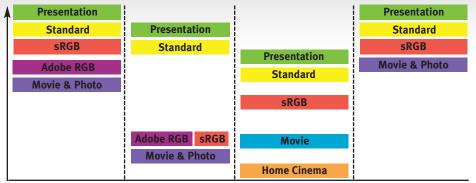
Reproduces colors in the appropriate color space for accurate projection of content produced in specific standardized formats

Home Cinema

Controls brightness while enhancing contrast to a ratio of 2000:1; for display of theatrical content in pitch-dark rooms

SX60

BRIGHTNESS



6-Axis Color Adjustments

A 6-Axis Color Adjustment function has been incorporated to meet the demands of professionals with demanding color requirements. Both hue and saturation can be adjusted on independent RGB and CMYK color axes.



More orange in the sunset Original Adjusted

A bluer sky Original

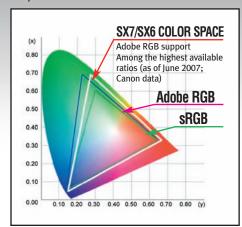






Adobe RGB Color Match System

A special RGB color filter on the SX7 and SX6 enables virtually accurate Adobe RGB



REALIS projectors produce scanless, grid-free images for realistic reproduction

color as well as sRGB, (SX7 requires no filter for sRGB) which is ideal for professional photography, design, publishing and printing.



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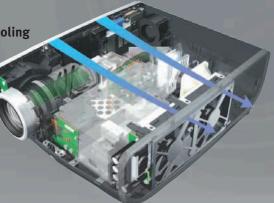
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Quiet Operation

In a projector, heat is generated by its projection lamp and power-supply circuits. The cooling system required to dissipate this heat is one of the main reasons why projectors tend to be noisy. For all our REALIS models, ventilation vents, cooling fan, and layout of the optical array have been engineered with noise prevention in mind, resulting in exceptionally quiet operation.

> Vents designed for efficient cooling

- In-line layout for unobstructed ventilation
- Large fan operates at lower speed



LED Illumination

LEDs on all REALIS models indicate the projector's connections and operational status at a glance. When several image input devices are connected, a LED indicates which image signal is selected as the input. The LED illumination on the operation panel flashes to indicate start-up, end of presentation, and other user commands.

Input terminals



LED indicates connector responding to image signal.

Operations panel



LEDs flash to indicate/confirm & Go functions when powspecific operations. switched on or off. Download from Www.Somanuals.com. All Manuals Search And Download.

Convenient Remote Control functions for sophisticated presentations

Digital Zoom

Enlarges a selected single area of the screen, such as specific data in a graph; images can be enlarged a maximum of 12x*.

* Resolution of the enlarged section is reduced.

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Spot

Highlights a portion of the image on the screen; the spotlight can be made larger or smaller and moved anywhere on the screen.



Freeze

Freeze-frame function lets you freeze the on-screen display for pauses in the presentation, such as changing PC connections or checking the subsequent image file.



Guide Functions

All REALIS models display guide messages in an on-screen window, providing feedback on invalid operations and set-up tips. The same window also introduces auto set-up and Off & Go functions when power is switched on or off





Canon Throw Distance Chart

4:3 Aspect Ratio

SX7, SX6, SX60, X700						
Projector Screen Size	40"	80"	100"	150"	200"	300"
Screen Size – horizontally	2'8"	5'4"	6'8"	10'0"	13'4"	20'0"
Projection distance	3'11" - 6'5"	7'9" - 12'11"	9'8" - 16'2"	14'7" - 24'4"	19'6" - 29'6"	29'4" - 29'6"
(shortest to longest)						

16:9 Aspect Ratio

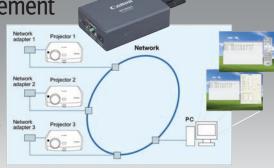
SX7, SX6, SX60, X700						
Projector Screen Size	40"	80"	100"	150"	200"	300"
Screen Size – horizontally	2'11"	5'10"	7'3"	10'11"	14'6"	N/A
Projection distance	4'2" - 7'0"	8'5" - 14'1"	10'7" - 17'8"	15'11" - 26'6"	21'3" - 29'6"	N/A
(shortest to longest)						·



For complete Throw Distance information, please visit www.canonprojectors.com

Network Projector Management

The optional network adapter makes it possible to operate the projector from a networked PC. Multiple projectors can be managed remotely as well. In the event of a malfunction, an alert can be sent to the computer. This feature also makes it possible to operate ceiling-mounted units or other remote installations from a single PC screen.



Kit Contents



USB Cable





Component Video Adapter Cable



Computer Cable (DVI-VGA)



Power Cord



Unique Website Lets You Compare Quality



Visit "Where Are The Details," www.usa.canon.com/details.

- COMPARE RESOLUTION: Compare XGA, SXGA+ and REALIS SXGA+ with LCOS by market, in single frame and side-by side interactive screens.
- REALIS TECHNOLOGY: Discover the many REALIS features with our 360 degree interactive presentation. View specs on each product.
- WHO NEEDS REALIS?: A market-specific drop-down menu lets you discover why REALIS is ideal for your particular application.
- REALIS ADVANTAGE: Read about and see a video which explains AISYS, Canon's proprietary technology that enhances LCOS technology.

Optional Accessories

Replacement Lamp



Ceiling Pipe

RS-LP04 (SX7, X700) RS-LP02 (SX6, X600) RS-LP03 (SX60)

RS-CL03 (14.17 in.) RS-CL04 (21.65 in.) RS-CL05 (29.92 in.)

Ceiling Mount

RS-CL06 (SX7, SX6, SX60, X700)



Network Adapter



RS-232C Cable RS-CA01



Product Specifications

Product			REALIS SX7	REALIS SX6	REALIS SX60	REALIS X700					
Basics	Imaging Dev	rice		0.7" Reflective	LCD panels (LCoS) x3						
	Aspect Ratio)	4:3								
	Native Reso	lution	SXGA+	SXGA+	SXGA+	XGA					
	Brightness		4000 ANSI Lumens	3500 ANSI Lumens	2500 ANSI Lumens	4000 ANSI Lumens					
	Uniformity		88%	88%	88%	88%					
	Contrast		1000:1	1000:1	1000:1 2000:1 (Home Cinema Mode)	1000:1					
	Keystone	Vertical	+/- 20 degrees (Auto/Manual)								
	Reyslone	Horizontal		+/- 20 degre	ees (Manual)						
Optics	Projection Le	ens	F1.85 - 2.5, f=21.7 - 35.8 mm								
·	Lens Shift			9:1,	Fixed						
	Zoom		1.7x Powered , 12x Digital								
	Focus			Powered (A	uto/Manual)						
	Screen Size			40" -	300"						
	Projection D	istance Coverage	3.9 - 29.5ft (1.2 - 9m) / 100": 9.8 - 16.1ft (3.0 - 4.9m)								
	Throw Ratio			1.46 –	2.43:1						
Image	Color Mode		Adobe RGB, sRGB, Presentation,	Adobe RGB, sRGB, Presentation	sRGB, Presentation, Standard,	sRGB, Presentation,					
Adjustments			Standard, Movie & Photo	Standard, Movie & Photo	Movie, Home Cinema	Standard, Movie					
	Color Adjust			Dynamic Gamma, 6-axis (F	RGBCMY) Color Adjustment						
	Wall Correct	ion	Auto/Manual								
	Mounting		Ceiling/Rear/Ceiling and Rear								
	Tilt Angle		Adjusting feet up to 10 degrees								
Input	Analog PC Input		UXGA/SXGA+/WXGA/SXGA/XGA/SVGA/VGA								
Signals	Digital PC Input		SXGA+/WXGA/SXGA/XGA SVGA/VGA								
	Scanning Frequency		H:15 - 100 kHz, V: 50 - 100 Hz, Dot clock: 170 MHz								
	Video/S-Video Input		NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N								
	Component		1080i/1035i/720p/575p/480p/575i/480i								
	Digital Video Input		1080i/1035i/720p/575p/480p								
Termimal		DVI-I 29pin D-Sub 15pin	Digital PC input/Analog PC input/Digital Video input Analog PC input /Component input/SCART input								
	Input	RCA	Video input								
		Mini DIN 4pin		S-Vide	o input						
		Stereo Mini Jack	Stereo audio input x3	Stereo audio input x1	Stereo audio input x1	Stereo audio input x3					
	Output	D-sub 15pin			PC output						
		Stereo Mini Jack	Stereo audio input x1	N/A	N/A	Stereo audio input x1					
	Built-In Spea		1W (Mono)								
	Control Term	ninal	RS-232								
	Network			YES (Optional N	letwork Adapter)	ı					
Lamp	Type		275W NSH (AC)	270W NSH (DC)	180W NSH (DC)	275W NSH (AC)					
	Lamp Life (C	Quiet/Normal)	3000/2000 Hours	2000/1500 Hours	4000/2500 Hours	3000/2000 Hours					
Remote	Sensor		Wireless Infrared, Front/Back								
Control	Mouse Cont	rol	USB								
Ratings	Fan Noise (N	Iormal/Quiet)	35/31dB	35/31dB	30/27dB	35/31dB					
	Dawe:	Consumption (Normal/Quiet/Stand-by)	360W/290W/7W	355W/290W/7W	250W/225W/7W	360W/290W/7W					
	Power	Voltage		AC 100 to 24	1 40V, 50/60Hz	I					
		Operating			(5 to 35 C)						
	Temperature	Storage	104 to -22 F (60 to -30 C), 5%RH ~ 90%RH								
	Dimensions	(W x D x H)		10.5 x 13.2 x 4.5 in. (266 x 336 x 114 mm)						
	Weight	-	10.6 lbs (4.8 kg)	10.4 lbs (4.7 kg)	10.1 lbs (4.6 kg)	10.6 lbs (4.8 kg)					

TRIPLE P PROGRAM



Canon's Projector Protection Program, also known as "Triple P," is a service program that provides a loaner projector of equal or greater quality in the event that your projector needs to be repaired.

- •Free to any buyer within their first year of new product warranty
- •Canon Customer Support Center toll free hotline: 1-800-828-4040
- •Customer Service Hours: 8 a.m. to Midnight, Monday to Friday 10 a.m. to 8 p.m., Saturday
- •For next business day delivery of loaner, Customer Activation Form must be received by *Canon Customer Support Center* by 3 p.m. EST (Monday to Friday)
- •Customer must provide a valid credit card as security for the loaner unit
- •Delivery not available on Saturday and Sunday
- Program available for products purchased and utilized in the U.S.A. only
- •Applies to Canon SXGA+ and XGA resolution products only
- ·Loaner unit based on availability
- •Program subject to change at any time without any given notice

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Canon Latin America, Inc. 703 Waterford Way, Suite 400 Miami, FL 33126, U.S.A.

¹Systems Contractor News, October 2005 in Realis SX50 review.

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