VIDEO XTREME™ PORTFOLIO

THX CERTIFIED* HOME THEATER AND HOME CINEMA PROJECTORS

VX-22d, VX-44d, VX-55d



THX.



VIDEO XTREME™ PORTFOLIO

unco further solidifies its leadership role with the introduction of the THX certified* VX-22d, VX-44d and VX-55d projectors.

These overachievers combines state of the art 1920 x 1080 SuperOnyx™ DLP™ resolution with advanced 3-chip engineering.

The results are simply stunning, with jaw-dropping images that must be seen to be believed!

Runco has taken 1080p performance to a new level with these machines and harnessed the brightness and contrast capabilities inherent in 3-chip light engine design for a powerful presentation. They are all supplied with Runco's latest, next generation all digital DHD Controller, featuring advanced Vivix II™ video processing, superb scaling and aspect ratio control, to take full advantage of these engineering advances.

These marvels of technology are enhanced further by motorized AxiShift $^{\text{\tiny{M}}}$ horizontal and vertical lens shift capability for maximum installation flexibility. Additional features include Runco's newest cinema-quality CinOptx $^{\text{\tiny{M}}}$ lenses and O-Path $^{\text{\tiny{M}}}$ light path enhancement technology for stunningly sharp video.

The VX-22d is offered with a selection of four Triton™ zoom lenses covering a broad range of throw distances, plus two fixed short throw lenses for rear projection applications. The VX-44d and VX-55d are available with four different, world class Telesto™ zoom lens options as well as a fixed, short throw lens for rear projection.

The VX-44d and VX-55d utilize an advanced Xenon lamp illumination system to bring astoundingly high performance and ultra high resolution to the very best home theaters on the planet. The VX-44d features an impressive 1000W Xenon lamp, while the VX-55d uses a tremendously powerful 1.2 kW Xenon lamp to produce Runco's brightest 1080p pictures ever.

Runco's exclusive, award winning CineWide™ and CineWide™ with AutoScope™ technology options are available with all models for cinema quality 2.35:1 presentations, eliminating those annoying black bars and ensuring every pixel of resolution is preserved.





*OPATH*CINOPTX

O-Path™ Technology and CinOptx™ Premium Grade Lens Systems are featured on the Video Extreme Portfolio projectors. O-Path efficiently collimates the light energy from the lamp though the optical path to maximize light output and eliminate stray light that can reduce brightness and compromise contrast ratio performance. The broad variety of lenses in the CinOptx family are designed to bring images faithfully to the screen without the geometric and color spectrum aberrations common among "production" lenses.

CSIVIS.

Runco International has carefully developed a full set of specification standards for our video projectors that is founded upon more realistic and easier to understand criteria for expressing the light output or brightness capability of a display device, as well as its contrast ratio. The Cinema Standards Measurement System™ was developed based on the actual experience one has in a movie theater, providing the consumer with an objective reference point to compare specifications.

CineWide Bringing Hollywood Home™

Runco's exclusive CineWide™ and CineWide with AutoScope™ technology ensures uncompromised widescreen reproduction of movies originally filmed in the CinemaScope 2.35:1 format. Through a combination of software, electronics and anamorphic optics, each projector is able to use the full pixel array on its DMD chips, thereby producing a 2.35 image with enhanced resolution and increased brightness. No resolution is lost to annoying black bars.



The new Video Xtreme Portfolio products incorporate the Imaging Science Foundation's "ISF 3cTM" (Certified Calibration Configuration) setup and calibration standards in projector GUI menus to facilitate picture quality conforming to the highest standards in the industry.

THX.

THX™ has long been recognized as the leader in both the finest movie theater presentations and superb home theater performance. The THX Video Display Program has established the industry's highest standards of video performance for home video display products. Runco is proud to be the first home video display manufacturer to meet these demanding standards and offer THX Certified products to our customers. The THX moniker attests to the exacting performance of these products and your ability to bring Hollywood home without compromise.

CINEWIDE™ AND CINEWIDE WITH AUTOSCOPE™

NO MORE BLACK BARS ABOVE AND BELOW THE PICTURE!

unco's award winning development of
CineWide™ and CineWide with
AutoScope™ technology has created a revolution in faithful movie
reproduction, for the first time



transforming home theater into home cinema.

This technology provides uncompromised widescreen

reproduction of movies originally filmed in the CinemaScope $^{\!\scriptscriptstyle{\mathrm{TM}}}$ 2:35:1

format. It maintains constant vertical height on the screen just as in a movie theater. When a viewer transitions from 1.78:1 (16:9) program material to superwide 2.35:1, the image simply gets wider while full screen height is maintained, eliminating black bars.

This is done through an ingenious combination of software, electronics and precision anamorphic optics. With the AutoScope option, the anamorphic lens is motorized and remote controlled.

With CineWide the projection system is able to use the full pixel array on its SuperOnyx™ DMD™ chips, thereby producing a 2.35:1 image with enhanced resolution and increased brightness. No resolution or image area is lost to useless black bars on the top and bottom of the screen that contain no picture information.

Conventional Method

A conventional 2.35:1 image displayed on a 1.78:1 (16:9) screen.



Black bars = lost resolution

CineWide™ Technology

Constant vertical height and full resolution are maintained. 100% of pixels are used. Black Bars are eliminated.



How it works

The video processor anamorphically "stretches" the 2.35:1 image vertically to completely fill the display's imaging chips. This allows all pixels to be used.

2.35:1 Picture on a 16:9 imaging chip







SQUEEZED -APPEARANCE

The anamorphic lens then "stretches" the image width to 2.35:1. Correct geometry is restored while 100% of the pixels are now used to maintain full resolution and eliminate black bars.



CineWide requires the use of a 2.35:1 or similar aspect ratio superwide format screen.

CineWide and AutoScope technology is the talk of the industry.

These are among the awards and acknowledgements we have already received.







Best Video Product



Manufacturer's Excellence Award Best



Product of the Year



Best New Product

DHD™ CONTROLLER

V; (2) HDMI

he Video Xtreme Portfolio projection systems include the DHD controller/processor. The DHD is engineered with advanced, Vivix II™ digital video processing to produce stunning video imagery, even elevating standard NTSC material to near high definition levels. Superb scaling capabilities output all signals at the native display resolution of the projectors.



The DHD provides for a pure digital signal path from input to output and resides outboard of the projector chassis. This simplifies installation by placing the DHD and its associated input connections in the equipment rack. Only one digital signal cable is then required to the projector. These projection systems can also take full advantage of Runco's exclusive LiveLink™ digital cable solution to preserve HD signal quality and bandwidth over much longer runs than conventional digital signal cables.



Aspect Ratios:	4:3, 16:9, Letterbox, VirtualWide™, Cinema, 2.35 Cinema	Communication Control Ports:	Discrete infrared remote Serial commands via RS-232 Front-panel controls	Dimensions: (w/out feet)	Width: 17 1/2 in. (444.50 mm), Depth: 11 3/16 in. (284.10 mm), Height: 3 3/4 in. (95.25 mm), Weight: 13 lbs. (5.9 kg)
Video Standards:	NTSC, PAL, ATSC	Screen Trigger/	(3) +12 VDC, each rated at 750 mA and		
Output Resolution:	1080P	, ,	Included Accessories:	Rack mounting brackets	
Outputs:	VX-22d: (1) DVI-D Dual Link VX-44d, VX-55d: (1) HDMI	Bandwidth:	150 Mega Samples per Second (MSPS)	Regulatory Approvals:	Complies with FCC, CE, C-Tick
Inputs:	VX-22d: (1) Composite; (1) S-Video; (1) HD Video, R (Pr), G (Y), B (Pb), H, V – RCA connectors; (1) HD Video/Computer, R (Pr), G (Y), B (Pb), H, V – BNCs; (1) HD Video/Computer – 15-pin D-Sub connector; (2) HDMI with HDCP	Power Requirements:	100 – 240V AC (auto sensing) 50/60 Hz, 160W	Limited Warranty:	(2) Two years parts and labor from the date of delivery to the end user
		Operating Environments:	41°–95° F, (5° – 35° C), 0% – 90% Humidity (non-condensing)		
	VX-44d/VX-55d: (1) Composite; (2) S-Video; (1) Component; (2) HD-R (Pr), G (Y), B (Pb), H,				

Specifications:	VX-22d	VX-44d	VX-55d
Projector Type:	Digital Light Processing™ (DLP™), 3-Chip, 16:9 SuperOnyx™ DMD™	Digital Light Processing™ (DLP™), 3-Chip, 16:9 SuperOnyx™ DMD™	Digital Light Processing™ (DLP™), 3-Chip, 16:9 SuperOnyx™ DMD™
Native Resolution:	1920x1080 (1080p)	1920x1080 (1080p)	1920x1080 (1080p)
Aspect Ratios:	Determined by Supplied Video Processor	Determined by Supplied Video Processor	Determined by Supplied Video Processor
/ideo Standards:	Determined by Supplied Video Processor	Determined by Supplied Video Processor	Determined by Supplied Video Processor
OTV Compatibility:	480p, 720p, 1080i, 1080p	480p, 720p, 1080i, 1080p	480p, 720p, 1080i, 1080p
Picture Size	Recommended Width: 80 – 180 in.	Recommended Width: 72-192 in.	Recommended Width: 92-240 in.
16:9 screens):	Maximum Width: 250 in.	Maximum Width: 300 in.	Maximum Width: 360 in.
Throw Distance	Triton Lens Options:	Telesto Lens Options:	Telesto Lens Options:
actor x Screen Width:	A-1: Fixed 0.70 (for rear-screen applications)	B : Zoom 1.37 – 1.64	B : Zoom 1.37 – 1.64
All CineWide Throws are specified using a 2.35:1 screen)	A-2: Fixed 1.155 (for rear-screen applications)	C : Zoom 1.69–2.27	C: Zoom 1.69–2.27
	B : Zoom 1.40–1.81	D : Zoom 2.38 – 4.00	D : Zoom 2.38-4.00
	C : Zoom 1.85 – 2.53	(with CineWide (McKinley lens only):	(with CineWide (McKinley lens only):
	(with CineWide (McKinley lens only): 1.40–1.90)	1.79-3.09) E: Zoom 4.18-6.60	1.79-3.09) E: Zoom 4.18-6.60
	D: Zoom 2.57 – 4.20 (with CineWide (McKinley lens only):	(with CineWide (Rainier lens only): 3.18–5.06)	
	1.90-3.15)		
	E: Zoom 4.30–7.00 (with CineWide (Rainier lens only): 3.14–5.50)		W
Horizontal and Vertical Offset Without CineWide Option:	Varies per lens option:	Varies per lens option:	Varies per lens option:
Cine write Option: (Note: With CineWide option offsets vary per lens. Please contact Runco Technical Support for more	Triton A-1: Vertical- 10% up, 10% down; 5% Horizontal	Telesto B: Vertical- 60% up, 60% down; 22% Horizontal	Telesto B : Vertical- 60% up, 60% down; 22% Horizontal
information.)	Triton A-2: Vertical- 31% up, 71% down; 17% Horizontal	Telesto C : Vertical- 60% up, 60% down; 22% Horizontal	Telesto C: Vertical- 60% up, 60% down; 22% Horizontal
	Triton B : Vertical- 30% up, 61% down; 12% Horizontal	Telesto D: Vertical- 60% up, 60% down; 20% Horizontal	Telesto D: Vertical- 60% up, 60% down; 20% Horizontal
	Triton C: Vertical- 32% up, 62% down; 12% Horizontal	Telesto E: Vertical- 60% up, 60% down; 21% Horizontal	Telesto E: Vertical- 60% up, 60% down; 21% Horizontal
	Triton D : Vertical- 28% up, 65% down; 12% Horizontal		
	Triton E : Vertical- 30% up, 63% down; 12% Horizontal		
Light Output:	CSMS** Specifications: Home Theater Calibration: 1391 ANSI Lumens; 58.7 Foot-Lamberts (fL); 2850 ANSI Lumens†	CSMS** Specifications: Home Theater Calibration: 2780 ANSI Lumens; 87 Foot-Lamberts (fL); 4000 ANSI Lumens†	CSMS** Specifications: Home Theater Calibration: 3475 ANSI Lumens; 107 Foot-Lamberts (fL); 6000 ANSI Lumens†
Contrast Ratio:	CSMS** Contrast Ratio: 321:1; 4000:1 ANSI	CSMS** Contrast Ratio: 230:1–280:1; 1500:1–2000:1 ANSI	CSMS** Contrast Ratio: 222:1–278:1; 1500:1–2000:1 ANSI
amp:	300W	1000W Xenon lamp module	1.2kW Xenon lamp module
amp Life:	2000 hours	1000 Hours	1000 Hours
nputs:	(1) DVI-D Dual Link	(1) DVI with HDCP	(1) DVI with HDCP
I2V Output:	See Controller for Specifications	See Controller for Specifications	See Controller for Specifications
Power Requirements:	100 – 240V AC, 50/60 Hz, 530 W	100-240V AC, 50/60Hz, 1650 W	200-240V AC, 50/60Hz, 2100 W (Note: Will not operate with 110VAC)
Operating Environments:	40 to 95°F (5 to 35°C); 20-80% humidity (non-condensing)	40 to 95°F (5 to 35°C); 20-80% humidity (non-condensing)	40 to 95°F (5 to 35°C); 20-80% humidity (non-condensing)
Dimensions (w/o feet):	Width: 20 7/8 in. (531 mm) Depth: 29 5/8 in. (753 mm) Height: 10 1/8 in. (258 mm) Weight: 99.21 lbs. (45kg)	Width: 29 1/8 in. (740 mm) Depth: 28 1/4 in. (718 mm) Height: 12 1/4 in. (311 mm) Weight: 120 lbs. (54.43kg) (without lens)	Width: 29 1/8 in. (740 mm) Depth: 28 1/8 in. (718 mm) Height: 12 1/4 in. (311 mm) Weight: 130 lbs. (58.97kg) (without lens)
Regulatory Approvals:	Complies with FCC Class B, CE, C-Tick	Complies with FCC Class B, CE, C-Tick	Complies with FCC Class B, CE, C-Tick
Limited Warranty:	Projector: (2) Two years parts and labor from the date of delivery to the end user. Lamp Warranty: 1000 hours or (6) Six months, which ever comes first.		Projector: (2) Two years parts and labor from the date of delivery to the end user. Lamp Warranty: 1000 hours or (6) Six months, which ever comes first.

† ANSI Lumen specification:

This is the typical projector luminosity (brightness) specification found in most sales literature. This measurement is included in RUNCO literature to allow for direct comparison with other manufacturer's projectors. These measurements can be taken at 9,000 to 13,000° Kelvin to get expected performance data when the projector is used in professional, commercial, and industrial displays.

**CSMS Home Theater Calibration ANSI Lumen Specification:

These measurements are taken from the projector as set up in a home theater environment. The projector is calibrated to ISF specifications including setting the color temperature to 6500° Kelvin, the standard for reproducing video.

**CSMS Home Theater Calibration foot-Lambert (fL) Specification:

This is the unit of measurement used in commercial movie theaters to express image brightness. The Society of Motion Picture and Television Engineers (SMPTE) specifies 16 ft. as the target image brightness for film-based projectors using an open gate (without film in the projector). More importantly, today SMPTE specifies 12 ft. as the target image brightness in Digital Cinema theaters using DLP™ technology. The foot-Lambert is dependant on screen size, screen gain, and projector fight output.

All measurements are made at RUNC0 to ANS/NAPM IT7.228-1997 specifications using the Photo Research PR-650 SpectraColorimeter and Minolta LS-100 Luminance Meter, Video Essentials test DVD, and a Da-Lite 1.5 gain, 100-inch wide screen. The projector is calibrated to a color temperature of 6500° Kelvin and has a minimum of 150 hours of usage.







*THX certification is pending final testing and approval by THX, Ltd.

Specifications are subject to change without notice. Optional ceiling bracket available.

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Theater installation photo courtesy of Aurant, Salt Lake City, UT



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