

VIDEO XTREME™ PORTFOLIO

VX-2000d, VX-6000d

THX CERTIFIED HOME THEATER AND
HOME CINEMA PROJECTORS



THX

RUNCO

THE WORLD'S FINEST
HOME THEATER PRODUCTS™

VIDEO XTREME™ PORTFOLIO

The new VX-2000d retains all of the features and performance that made the VX-1000, our most popular projector ever, and the undisputed leader in its category while incorporating new, cutting edge technology and 1080p SuperOnyx™ performance. Performance so impressive that the VX-2000d has earned its place in our exclusive, Video Xtreme™ family of products — our top of the line and the world's first video products to earn prestigious THX™ certification.

The VX-2000d incorporates Runco's Enhanced GEN 3™ engineering advancements for more efficient use of optical light engine design. This includes a sophisticated color balancing system and the industry's best gray scale tracking. Runco's exclusive Reflectance Volume Regulation (RVR™) enables an ideal balance between black and white levels for each individual installation.

With such outstanding performance, a CineWide™ option, and a generous array of custom friendly features, there is no doubt that the VX-2000d will find its way into a large number of custom home theater installations. When customer expectations are high, the VX-2000d is the choice.

The new VX-6000d follows in the footsteps of its renowned predecessor, the VX-5000 by offering extraordinary performance, state of the art optics, impressive custom installation flexibility and today's most advanced technology with 1920 x 1080 SuperOnyx™ resolution.

The VX-6000d incorporates Runco's Enhanced GEN 3™ engineering advancements while O-Path™ refines the optical light path for greater efficiency. These engineering achievements are accompanied by our finest CinOptx™, cinema grade lenses. These world-class optics are combined with AxiShift™ engineering to provide generous lens shift versatility.

For added appeal, the VX-6000d is offered with both CineWide™ and CineWide™ with AutoScope™ options. This award-winning, exclusive Runco technology brings Hollywood home with its awesome presentation of CinemaScope™ superwide movies without black bars!

The Runco VX-6000d represents the pinnacle in single-chip DLP™ projector performance and as a member of the Video Xtreme™ family of projectors has earned prestigious THX™ Certification.

The VX-2000d and VX-6000d are supplied with Runco's newest, next generation all digital DHD Controller, featuring advanced Vivix II™ processing. This controller produces stunning video imagery, even elevating standard NTSC material to near high definition levels.



VX-2000d





VX-6000d

O-Path™ CINOPTX™

O-Path™ Technology and CinOptx™ Premium Grade Lens Systems are featured on the VX-2000d and VX-6000d in combination with CineWide™ and CineWide with AutoScope™ options. O-Path efficiently collimates the light energy from the lamp through 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.

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, the projector is able to use the full pixel array on its SuperOnyx™ DMD™ chip, thereby producing a 2.35 image with enhanced resolution and increased brightness. No resolution or image area is lost to annoying black bars. With AutoScope the anamorphic lens is motorized and remote controlled.

CSMS

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.

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.



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

CINEWIDE™ AND CINEWIDE WITH AUTOSCOPE™

NO MORE BLACK BARS ABOVE AND BELOW THE PICTURE!

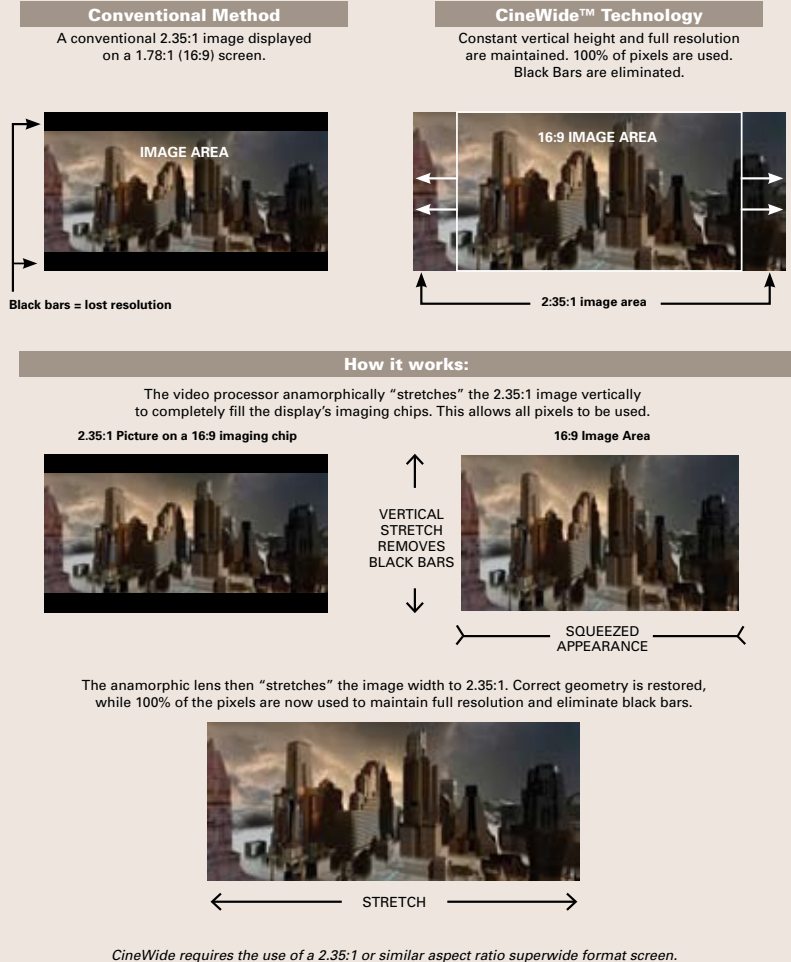
Runco's award winning development of CineWide™ and CineWide with AutoScope™ technology has created a revolution in faithful movie reproduction, for the first time transforming *home theater* into *home cinema*.



This technology provides uncompromised widescreen reproduction of movies originally filmed in the CinemaScope™ 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™ chip, 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.



CineWide and AutoScope technology is the talk of the industry. These are among the awards and acknowledgements we have already received.



2005 Overall Most Creative New Product



Best Video Product 2005



Manufacturer's Excellence Award Best New Product 2005



Electronic House Product of the Year 2005



Best New Product 2005

DHD CONTROLLER

The Reflection portfolio's VX-2000d, and VX-6000d 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 1080p 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.



DHD CONTROLLER SPECIFICATIONS

Aspect Ratios: 4:3, 16:9, Letterbox, VirtualWide™, Cinema, 2.35 Cinema

Video Standards: NTSC, PAL, ATSC

Output Resolution: 1080P

Outputs: (1) HD - R (Pr), G (Y), B (Pb), H, V;
(1) HDMI w/HDCP

Inputs: (1) Composite; (2) S-Video; (1) Component;
(2) HD - R (Pr), G (Y), B (Pb), H, V;
(2) HDMI w/HDCP

Communication Control Ports: RS-232 (via DB9 connector),
(1) RJ-11 output (for display only),
IR (with discreet commands),
Front panel controls

**Screen Trigger/
Masking Outputs:** (3) +12 VDC, each rated at 750 mA and
thermal fuse-protected

Bandwidth: 150 Mega Samples/Second (MSPS)

Power Requirements: 100–240V AC (auto sensing)
50/60 Hz, 160W

Operating Environments: 41°–95° F, (5°–35° C),
0%–90% Humidity (non-condensing)

**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)

Included Accessories: Rack mounting brackets

Regulatory Approvals: Complies with FCC, CE, C-Tick

Limited Warranty: (2) Two years parts and labor from the date of delivery to the end user

Specifications	VX-2000d	VX-6000d
Projector Type:	Digital Light Processing™ (DLP™) Single SuperOnyx™ DMD™	Digital Light Processing™ (DLP™) Single SuperOnyx™ DMD™
Native Resolution:	1920 x 1080 (1080p)	1920 x 1080 (1080p)
Aspect Ratios:	Determined by Supplied Processor	Determined by Supplied Processor
Video Standards:	Determined by Supplied Processor	Determined by Supplied Processor
DTV Compatibility:	480p, 720p, 1080i, 1080p	480p, 720p, 1080i, 1080p
Picture Size (16:9 screens)	Recommended Width: 72 – 96 in. Maximum Width: 250 in.	Recommended Width: 72 – 120 in. Maximum Width: 250 in.
Throw Distance (Factor x Screen Width) <i>(All CineWide Throws are specified using a 2.35:1 screen)</i>	1.84 to 2.47 x screen width With fixed CineWide: 1.90 to 2.47 (preliminary)	Telesto Lens Options: A: Not yet available B: Zoom 1.39 – 1.66 C: Zoom 1.70 – 2.27 (with CineWide 1.60 – 1.74) D: Zoom 2.40 – 4.10 (with CineWide 1.81 – 3.18) E: Zoom 4.20 – 6.65 (with CineWide 3.16 – 5.00) <i>(Telesto A and B options are not available with CineWide or CineWide w/AutoScope)</i>
Horizontal and Vertical Offset Without CineWide Option: <i>(Note: With CineWide option offsets vary per lens. Please contact Runco Technical Support for more information.)</i>	Vertical: 50% up, 50% down No horizontal lens shift (Short throw lenses have no offset capabilities)	Varies per lens option: Telesto A: N/A Telesto B: Vertical- 60% up, 67% down; 20% Horizontal Telesto C: Vertical- 61% up, 75% down; 25% Horizontal Telesto D: Vertical- 63% up, 60% down; 22% Horizontal Telesto E: Vertical- 38% up, 67% down; 38% Horizontal
Light Output:	CSMS Specifications**: Home Theater Calibration: 425–635 ANSI Lumens; 15.9–24.4 Foot-Lamberts (fL) Variable depending on RVR calibration; 1550 ANSI Lumens [†]	CSMS Specifications**: Home Theater Calibration: 468–801 ANSI Lumens; 17.3–29.8 Foot-Lamberts (fL) Variable depending on RVR calibration; 1750 ANSI Lumens [†]
Contrast Ratio:	CSMS** Contrast Ratio: 214:1–231:1; 2750:1–3350:1	CSMS** Contrast Ratio: 285:1–360:1; 4450:1–5000:1
Lamp:	220W UHP	220W UHP
Lamp Life:	2000 hours	2000 hours
Inputs:	(1) HDMI Connector (for use with DHD Controller)	(1) HDMI Connector (for use with DHD Controller)
12V Output:	See Controller for Specifications	See Controller for Specifications
Power Requirements:	100 – 240V AC, 50/60 Hz, 380 W	100 – 240V AC, 50/60 Hz, 400 W
Operating Environments:	40° – 95° F, (5° – 35° C) 0% – 90% Humidity (non-condensing)	40° – 95° F, (5° – 35° C), 0% – 90% Humidity (non-condensing)
Dimensions (w/o feet):	Width: 21 3/4 in. (533 mm) Depth: 20 7/8 in. (512.00 mm) Height: 7 1/4 in. (185 mm) with feet 7 3/4 in. (197.00 mm) Weight: 50 lbs. (22.68 kg) (includes lens)	Width: 20 7/8 in. (531.00 mm) Depth: 27 7/8 in. (708.00 mm) Height: 9 in. (229.00 mm) with feet 10 in. (254.00 mm) Weight: 73 lbs. (33.11 kg) (includes lens)
Regulatory Approvals:	Complies with FCC Class B, CE, C-Tick	Complies with FCC Class B, CE, C-Tick
Limited Warranty:	<u>Projector:</u> (2) Two year parts and labor from the date of delivery to the end user. <u>Lamp Warranty:</u> 1000 hours or (6) six months, which ever comes first.	<u>Projector:</u> (2) Two year parts and labor from the date of delivery to the end user. <u>Lamp Warranty:</u> 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 fL as the target image brightness for film-based projectors using an open gate (without film in the projector). More importantly, today SMPTE specifies 12 fL as the target image brightness in Digital Cinema theaters using DLP™ technology. The foot-Lambert is dependant on screen size, screen gain, and projector light output.

All measurements are made at RUNCO to ANSI/NAPM IT7.228-1997 specifications using the Photo Research PR-650 SpectraColorimeter and Minolta LS-100 Luminance Meter, Video Essentials test DVD, and a Stewart Filmscreen StudioTech 130, 1.3 gain 72-inch wide screen. The projector is calibrated to a color temperature of 6500° Kelvin and has a minimum of 150 hours of usage.



Engineered for ISF® calibration.



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

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Theater installation photo courtesy of M. Alan Associates, Inc., Cincinnati, Ohio.



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