REFLECTION™ VX-4000D

DLP

RUNCO INTERNATIONAL

DIGITAL LIGHT PROCESSING™

DHD™

NEXT GENERATION ALL DIGITAL DHD CONTROLLER
VIVIX II™ DIGITAL VIDEO PROCESSING
1280 X 720 WIDESCREEN NATIVE RESOLUTION
1600 ANSI LUMENS/UP TO 4000:1 CONTRAST RATIO

DIGITAL HIGH DEFINITION

RUNCO

The World's Finest Home Theater Products™

ENHANCED GEN3 TECHNOLOGY

The VX-4000d proudly follows the heritage of its sibling, the VX-5000d. The chassis and DLP™ light engine share a common design, as does its spectacular lens shift capability that makes installation in difficult situations possible.

The VX-4000d is offered with a choice of six premium home theater lenses to accommodate a wide range of throw distance requirements. These home theater lenses are of superior optical design and quality for outstanding picture performance in situations where the cinema grade professional optics offered with the VX-5000d are not required.

The VX-4000d 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.

The VX-4000d is supplied with Runco's new, 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.

The DHD provides for a pure digital signal path from input to output, making this system ready for Runco's exclusive LiveLink™ DVI cable solution to preserve HD signal quality over long runs.

isf® Engineered for ISF® calibration.

Installer Dependent

RUNCO

THE WORLD'S FINEST HOME THEATER PRODUCTS™
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FEATURES:

- Runco-engineered, Enhanced GEN 3 Technology™ with RVR™
- Includes Next Generation All Digital DHD Video Controller
- 1280 x 720, 16:9 Widescreen Native Resolution
- Vivix II™ Digital Video Processing
- HDTV Ready
- DVI Input w/HDCP
- Multiple Lens Options for Throw Distance Flexibility

VX-4000D PROJECTOR SPECIFICATIONS:

Projector Type:	Digital Light Processing™ (DLP™), Single HD-2+ DMD™ Chip
Native Resolution:	1280 x 720, (16:9)
Aspect Ratios:	Determined by Supplied Processor
Video Standards:	NTSC, PAL
DTV Compatibility:	480p, 720p, 1080i
Scan Frequency:	Horizontal: 15–81 KHz Vertical: 43–100 Hz
Picture Size (16:9 Screen):	Recommended Width: 72–96 in. Maximum Width: 200 in.
Throw Distance (Factor x Screen Width):	Lens Option 1: Zoom 1.20–1.40 x width Lens Option 2: Zoom 1.40–1.77 x width Lens Option 3: Zoom 1.77–2.35 x width Lens Option 4: Zoom 2.35–3.60 x width Lens Option 5: Zoom 3.60–5.70 x width Lens Option 6: 0.67 x width (for rear-screen applications)
Horizontal and Vertical Offset:	Horizontal offset varies per lens, up to 71% Vertical offset varies per lens, up to 120%
Light Output:	CSMS** Specifications: Home Theater Calibration: 451–780 ANSI Lumens† 16.9–29.2 Foot-Lamberts (fL)† 1600 ANSI Lumens* †Variable depending on RVR calibration.
Contrast Ratio:	CSMS** Contrast Ratio: 220:1 to 237:1‡ 3400:1 to 4000:1‡ ‡Variable depending on RVR calibration
Lamp:	250W NSH
Lamp Life:	2000 hours @ 6500° Kelvin
Inputs:	(1) RGB HV, (1) DVI w/HDCP, (1) RS-232
12V Output:	See Controller for Specifications
Power Requirements:	100–240V AC, 50/60 Hz, 380W
Operating Environment:	40°–95° F, (5°–35° C), 0%–90% Humidity (non-condensing)
Dimensions (w/out feet):	Width: 20 7/8 in. (530.2 mm) Depth: 27 7/8 in. (708.0 mm) Height: 8 7/8 in. (225.4 mm) with feet 9 7/8 in. (250.8 mm) Weight: 73 lbs. (33.1 kg) (without lens)
Regulatory Approvals:	Complies with FCC Class B, CE, C-Tick
Limited Warranty:	Projector: (2) Two year parts and labor from the date of delivery to the end user. Lamp Warranty: 1000 hours or (6) six months, which ever comes first.

DHD CONTROLLER SPECIFICATIONS (Included with the VX-4000D):

Aspect Ratios:	Anamorphic, Letterbox, VirtualWide™ 4:3 (on either 16:9 or 4:3 screens)
Input Standards:	NTSC/PAL
Output Resolution:	720P
Outputs:	(1) HD - R (Pr), G (Y), B (Pb), H, V; (1) DVI w/HDCP
Inputs:	(1) Composite; (2) S-Video; (1) Component; (2) HD - R (Pr), G (Y), B (Pb), H, V; (2) DVI w/HDCP
Control Options:	Discrete infrared remote, (2) RS-232, (1) 9-pin Connector, (1) RJ-11, Front panel controls
Screen Trigger/ Masking Outputs:	(3) 12V DC, 1/8A
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

***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.

Call factory for more specific information on export specifications. Specifications are subject to change without notice. Optional ceiling bracket available.