

DLP

RUNCO INTERNATIONAL
DIGITAL LIGHT PROCESSING™

REFLECTION™ VX-5000D



DHD™

NEXT GENERATION ALL DIGITAL DHD CONTROLLER
VIVIX II™ DIGITAL VIDEO PROCESSING
1280 X 720 WIDESCREEN NATIVE RESOLUTION
1700 ANSI LUMENS/UP TO 5000:1 CONTRAST RATIO
DIGITAL HIGH DEFINITION



The World's Finest Home Theater Products™

ENHANCED
GEN3
TECHNOLOGY

The Reflection™ VX-5000d incorporates Runco's exclusive Enhanced GEN 3™ engineering advancements to make more efficient use of optical light engine design. This results in greater light output and dramatically increases contrast ratio.

Among the advances Runco has developed are a sophisticated color balancing system and RVR™ or Reflectance Volume Regulation, which provides the perfect balance of black and white levels.

These engineering achievements are combined with lens choices featuring world-class optics and lens shift versatility. The resulting images are superb. In fact, the VX-5000d can easily surpass the black levels of film projectors!

The VX-5000d 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.

The Runco VX-5000d with DHD controller represents the pinnacle in single-chip DLP™ projector performance.



Engineered for ISF® calibration.



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 with Premium Professional Grade Optics

VX-5000D 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 1.57–1.95 Lens Option 2: Zoom 1.95–2.74 Lens Option 3: Zoom 2.76–4.85 Lens Option 4: Zoom 4.85–7.75 Lens Option 5: Fixed .8 (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: 462–796 ANSI Lumens† 17.2–29.7 Foot-Lamberts (fL)† †Variable depending on RVR calibration; 1700 ANSI Lumens*

Contrast Ratio:	CSMS** Contrast Ratio: 232:1 to 255:1‡ 4400:1 to 5000:1‡ ‡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-5000D):

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.