Projection Type:	Texas Instruments Digital Light Processing™ (DLP) dual imaging system, SuperOnyx™ DMD™
Native Resolution:	Full HD 1920 x 1080 (1080p)
Aspect Ratio:	16:9, 4:3, Letterbox, VirtualWide, Cinema, VirtualCinema, Native
3D Support:	All HDMI 1.4a mandatory 3D formats are supported with included Runco 3Dimension Processing system
DTV Compatibility:	See DHD4 Specifications
Picture Size (16:9 Screens) in 2D:	"Recommended Width: 72 - 132 in. Maximum Width: 200 in."
Picture Size (16:9 Screens) in 3D:	"Recommended Width: 72 - 100 in. Maximum Width: 120 in."
Processing:	Runco DHD4 Processor with ViVix IV™ technology and BRiC tool
Control:	RS-232 and IR remote, as well as HDMI CEC and Ethernet
Inputs:	See 3Dimension Series specifications
12V Output:	See DHD specifications
Video Standards:	NTSC, PAL, SECAM, CEA-861D
Calibration:	ISF Certified Calibration Configuration
Color Gamut:	Fully adjustable, > BT.709 (REC709)
Throw Distance:	Standard Lens: 1.89-2.40 (With CineWide Whitney: 1.89-2.40) (With CineWide Shasta: 1.42-1.80)
	Short-throw lens: 1.59-1.86 (With CineWide Shasta: 1.19-1.40)
Horizontal & Vertical Offset:	Vertical: Up to 60% of image height down or up from center of screen Horizontal: Up to 25% of image width left or right from center of screen
Light Output in High-Bright 2D Mode:	CSMS Specifications*: Home Theater Calibration: 900 ANSI Lumens; 58 Foot-Lamberts (fL); 1400 ANSI Lumens (uncalibrated); Light output will drop less than 10% over the life of the product.

For more information visit www.Runco.com or call 800-237-8626 or +1-503-748-1100.

Light Output in Standard Brightness 2D Mode:	CSMS Specifications*: Home Theater Calibration: 450 ANSI Lumens; 29 Foot-Lamberts (fL); 700 ANSI Lumens (uncalibrated); Light output will drop less than 10% over the life of the product.
Light Output in 3D Mode:	CSMS-3D Specifications***: Home Theater Calibration: 311 ANSI Lumens; 20 Foot-Lamberts (fL); 483 ANSI Lumens (uncalibrated); Light output will drop less than 10% over the life of the product.
Contrast Ratio:	CSMS Contrast Ratio: 330:1 3 settings: Infinity:1, 20000:1, and 10000:1 (sequential). ColorContrast™ for up to 50% higher contrast by color.
Illumination System:	InfiniLight™ LED (RGB) illuminiation system
Color Space:	135% NTSC color gamut in proprietary Runco Native mode with Runco Smart Color™ and Personal Color Equalizer™. Presets for SMPTE C, REC-709, DCI, EBU, and others. Adobe achievable.
CineWide:	CineWide® and CineWide with AutoScope™ utilizing Whitney and Shasta lens
Maintenance:	Zero maintenance, solid state optical path (no lamps to replace)
Power Requirements for projector:	100 VAC to 240 VAC +/- 10% @ 50/60Hz
Power Consumption for projector:	180-480 W typical (2W standby)
Operating Temperature:	10°C to 40°C, up to 7,500' altitude,10°C to 35°C, 7,500' to 10,000' altitude
Operating Humidity:	10-80% humidity (non-condensing)
Dimensions (w/o feet or optional CineWide lens):	Width: 22.1 in (561.34 mm); Depth: 24.5 in (622.3 mm); Height: 16 in (406.4 mm); Weight: 100 lbs (without lens)
Warranty and Service:	Projector: (2) Two years parts and labor from the date of shipment from Runco. Extended RuncoCare™, Red Carpet™, and PremierCare™ assurance available
Regulatory:	FCC Part 15 Class B, CE Class B, UL, cUL, CB, RoHS, WEEE, local conformances as required

*Measured on a 1.3 gain, 72" wide 16:9 screen
**distance/screen width, tolerance +/-2.5%
***Measured on a 3.0 gain, 73" wide, 16:9 screen

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Runco 3Dimension Processor Specifications:

Aspect Ratios:	4:3, 16:9, Letterbox, VirtualWide™, Cinema, Virtual Cinema™, Native
Video Standards:	HDMI and DVI with HDCP for digital video, Component and RGB HDTV (1080p, 1080i, 720p), Component and RGB EDTV (576p, 480p), Component and Composite SDTV (576i, 480i), RGB SCART with adaptor, NTSC (M, 4.43), PAL (B, G, H, I, N, M), SECAM (M)
Inputs:	(4) HDMI 1.4 with CEC and Deep Color; (1) Component/SCART (3 x RCA); (2) Component/RGBHV (5 x BNC); (3) Composite
Output:	(1) HDMI 1.4 with CEC and Deep Color to display; (1) HDMI 1.4 with Deep Color to second display or audio processor
3D	System includes demultiplexing algorithms for every required HDMI 1.4a 3D format, including frame-packed, maintaining optimal synchronization and stereo separation.
Display Communication:	HDMI via RuncoLink™; RJ11 for serial display control
Communication Control Ports:	(1) USB (type B female) for firmware upgrade; (1) RS-232 (female DB9) for serial commands; (1) RS-232 (male DB9) for accessories; (1) 3.5mm wired IR input for Niles/Xantech-compatible IR systems; Discrete infrared remote; Front panel vacuum fluorescent display and keypad; dual imager management
Ethernet Communication:	(1) RJ45 (female) for web server, e-mail, auto firmware upgrade and Telnet
12V Outputs:	(3) 3.5mm programmable, 250mA max each
Power Requirements:	100 – 240V AC (auto-sensing), 50/60 Hz, 35 watts (typical)
Operating Environment:	50°F to 104°F (10°C to 40°C), 0% to 85% humidity (non-condensing), up to 10,000' altitude
Dimensions (for each box):	3Dimension Processor + DHD4 = 3-part, 6U solution necessary to produce amazing 3D for D-73d. Dimensions for each box (3 total): Width = 17.50 inches (444.5 mm); Depth = 11.19 inches (284.1 mm); Height (with feet) = 3.75 inches (95.3 mm); Height (without feet) = 3.47 inches (88.14 mm); Weight: 15.5 lbs. (7.0 kg)
Accessory Applications:	Runco Firmware Upgrader, Runco BRiC (backup, restore, clone), CalMAN by SpectraCal for automatic calibration
Regulatory Approvals:	cTUVus, FCC class B, CE, RoHS, China RoHS, WEEE, C-Tick, CCC, local conformances as required
Limited Warranty:	(2) Two years parts and labor from the date of shipment from Runco

This product contains intellectual property and technology licensed from RealD. These may include, but are not limited to, the following patents 5,416,510, 7,002,618, ,7,002,618, 7,184,002, 5,193,000, 5,159,453, 5,572,250 and patent applications 10/613866, 11/811047, 11/811234, 12/286449, 12/534126, 65/108395, 61/153949, and 61/168925.

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Runco DHD4 Controller Specifications:

Aspect Ratios:	4:3, 16:9, Letterbox, VirtualWide™, Cinema, Virtual Cinema™, Native
Video Standards:	HDMI and DVI with HDCP for digital video, Component and RGB HDTV (1080p, 1080i, 720p), Component and RGB EDTV (576p, 480p), Component and Composite SDTV (576i, 480i), RGB SCART with adaptor, NTSC (M, 4.43), PAL (B, G, H, I, N, M), SECAM (M)
Inputs:	(4) HDMI 1.4 with CEC and Deep Color; (1) Component/SCART (3 x RCA); (2) Component/RGBHV (5 x BNC); (3) Composite
Output:	(1) HDMI 1.4 with CEC and Deep Color to display; (1) HDMI 1.4 with Deep Color to second display or audio processor
Display Communication:	HDMI via RuncoLink™; RJ11 for serial display control
Communication Control Ports:	(1) USB (type B female) for firmware upgrade; (1) RS-232 (female DB9) for serial commands; (1) RS-232 (male DB9) for accessories; (1) 3.5mm wired IR input for Niles/Xantech-compatible IR systems; Discrete infrared remote; Front panel vacuum fluorescent display and keypad
Ethernet Communication:	(1) RJ45 (female) for web server, e-mail, auto firmware upgrade and Telnet
12V Outputs:	(3) 3.5mm programmable, 250mA max each
Power Requirements:	100 – 240V AC (auto-sensing), 50/60 Hz, 35 watts (typical)
Operating Environment:	50°F to 104°F (10°C to 40°C), 0% to 85% humidity (non-condensing), up to 10,000' altitude
Dimensions:	Width = 17.50 inches (444.5 mm); Depth = 11.19 inches (284.1 mm); Height (with feet) = 3.75 inches (95.3 mm); Height (without feet) = 3.47 inches (88.14 mm); Weight: 15.4 lbs. (7.0 kg)
Accessory Applications:	Runco Firmware Upgrader, Runco BRiC (backup, restore, clone), CalMAN by SpectraCal for automatic calibration
Regulatory Approvals:	cTUVus, FCC class B, CE, RoHS, China RoHS, WEEE, C-Tick, CCC, local conformances as required
Limited Warranty:	(2) Two years parts and labor from the date of shipment from Runco

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