



# RUNCO® QUANTUMCOLOR™ Q-1500D PROJECTOR



|                               |   |
|-------------------------------|---|
| Projector Type:               | Texas Instruments Digital Light Processing™ (DLP) dual imaging system, SuperOnyx™ DMD™  |
| Native Resolution:            | Full HD 1920 x 1080 (1080p)   |
| Aspect Ratios:                | 16:9, 4:3, Letterbox, VirtualWide, Cinema, VirtualCinema, Native  |
| DTV Compatibility:            | See DHD4 Specifications   |
| Video Standards:              | NTSC, PAL, SECAM, CEA-861D  |
| Calibration:                  | ISF Certified Calibration Configuration   |
| Color Gamut:                  | Fully adjustable, > BT.709 (REC709)   |
| Processing:                   | Runco DHD4 Processor with ViVix IV™ technology and BRiC tool  |
| Control:                      | RS-232 and IR remote, as well as HDMI CEC and Ethernet  |
| Picture Size (16:9 Screen):   | Recommended Width: 72- 132 in.<br>Maximum Width: 200 in.  |
| Throw Distance*               | Lens options:   |
| Factor x Screen Width:        | Standard Lens: 1.89-2.40<br>(With CineWide Whitney: 1.89-2.40)<br>(With CineWide Shasta: 1.42-1.80)<br>Short-throw lens: 1.59-1.86<br>(With CineWide Shasta: 1.19-1.40)                     |
| Horizontal & Vertical Offset: | Vertical: Up to 60% of image height down or up from center of screen<br>Horizontal: Up to 25% of image width left or right from center of screen  |
| CineWide™                     | CineWide® and CineWide with AutoScope™ utilizing Whitney and Shasta lens  |
| Light Output:                 | 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. |
| 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:                 | InfiniLight™ LED (RGB) illumination system  |
| Maintenance:                  | Zero maintenance, solid state optical path (no lamps to replace)  |

**For more information visit [www.Runco.com](http://www.Runco.com) or call 800-237-8626 or +1-503-748-1100.**



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| 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. |
| Inputs:                | See Brightness Acceleration Engine specifications   |
| 12V Output:            | See DHD specifications  |
| Power Requirements:    | 100 VAC to 240 VAC +/- 10% @ 50/60Hz  |
| Power Consumption:     | 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:            | Width: 22.1 in (561.34 mm)<br>Height: 16 in (406.4 mm)<br>Depth: 24.5 in (622.3 mm)<br>Weight: 100 lbs (without lens)   |
| Regulatory Approvals:  | FCC Part 15 Class B, CE Class B, UL, cUL, CB, RoHS, WEEE, local conformances as required  |
| Limited Warranty:      | Projector: (2) Two years parts and labor from the date of shipment from Runco. Extended RuncoCare™, RedCarpet™, and PremierCare™ assurance available                                |

\*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® BRIGHTNESS ACCELERATION ENGINE™



## Runco Brightness Acceleration Engine 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:                      | (2) HDMI with Deep Color to displays; (1) HDMI with Deep Color to second display or audio processor  |
| Display Communication:       | (2) 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):   | Brightness Acceleration Engine + DHD4 = 3-part, 6U solution necessary to create the brightness of the Q-1500d. 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   |

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# RUNCO® DHD4™ CONTROLLER/PROCESSOR

## Runco DHD4 Controller Specifications:

|                                  |   |
|----------------------------------|---|
| Aspect Ratios:<br>Wide™, Cinema, | 4:3, 16:9, Letterbox, Virtual-<br>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 with CEC and Deep Color; (1) Component/SCART (3 x RCA); (2) Component/RGBHV (5 x BNC); (3) Composite   |
| Output:                          | (2) HDMI with Deep Color to displays; (1) HDMI with Deep Color to second display or audio processor   |
| Display Communication:           | (2) 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 Nilis/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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