

# CHRISTIE HS SERIES DWU19-HS / DWU23-HS

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## High-brightness performance. Light weight design.

Achieving 19,150 and 23,650 lumens and weighing less than 92 lbs (41.6 kg), the Christie® DWU19-HS and DWU23-HS have an excellent lumen-to-weight ratio.

Your audience will enjoy incredible high brightness and WUXGA resolution, plus enhanced color performance—with deeper blacks, and more natural and realistic onscreen visuals—thanks to our Christie BoldColor+™ technology. This powerhouse performance provides a viable alternative to similarly bright 3DLP projectors.

With built-in Christie Twist™ you can quickly and easily set up and align irregular screens and multi-projector displays.

The option to add Christie Mystique™ automated camera-based alignment software lets you quickly stage, install, align, and recalibrate multi-projection systems in minutes.

And as if that wasn't enough, these HS Series models come with a five-year warranty and they support active and passive polarized 3D right out of the box.



**CHRISTIE®**

| Technical specifications |                             | DWU19-HS / DWU19A-HS (TAA)                                                                                                                                                                                                                                                                                                    | DWU23-HS / DWU23A-HS (TAA)                                                                                                                          |
|--------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image                    | brightness <sup>1</sup>     | • 19,150 ISO lumens<br>• 17,000 ANSI lumens                                                                                                                                                                                                                                                                                   | • 23,650 ISO lumens<br>• 21,000 ANSI lumens                                                                                                         |
|                          | color wheel                 | • 3 segment (RGB) - 3X speed                                                                                                                                                                                                                                                                                                  |                                                                                                                                                     |
|                          | contrast (nominal)          | • Christie RealBlack™ enabled: 4,000,000:1<br>• RealBlack disabled: 1,200:1                                                                                                                                                                                                                                                   | • Dynamic contrast: 6,000:1                                                                                                                         |
| Display technology       | type                        | • 1 x 0.96" DMD                                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
|                          | native resolution           | • 1920 x 1200 (2,304,000 pixels) (16:10)                                                                                                                                                                                                                                                                                      |                                                                                                                                                     |
| Illumination             | type                        | • Laser phosphor with Christie BoldColor+™ technology utilizing a blue and a red laser                                                                                                                                                                                                                                        |                                                                                                                                                     |
|                          | performance                 | • 20,000 hours to 50% brightness                                                                                                                                                                                                                                                                                              |                                                                                                                                                     |
| Signal Inputs            | standard                    | • HDMI 2.0b x 2 (HDCP 1.4/2.2) (one on rear panel, one on bottom) • 3G-SDI x 1 (BNC)<br>• DP x 1 • USB x 1 (Type A) • WiFi dongle (optional) • HDBaseT (RJ45) x 1                                                                                                                                                             |                                                                                                                                                     |
|                          | signals                     | • Horizontal and vertical scaling while maintaining aspect ratio (all inputs)                                                                                                                                                                                                                                                 |                                                                                                                                                     |
|                          | 3D                          | • HDMI 1.4, HDBaseT - frame packed, top/bottom, side-by-side (up to 120 Hz output); frame sequential at 1080p up to 120 Hz.<br>• 3D sync in (BNC) for genlocking projectors<br>• 3D sync out (BNC) for genlocking projectors, or controlling emitter or polarizer<br>• Active shuttered and passive polarized stereoscopic 3D |                                                                                                                                                     |
|                          | pixel clock                 | • 600 MHz                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                     |
|                          | scan rates                  | • Horizontal: 15-91 kHz • Vertical: 24-120 Hz                                                                                                                                                                                                                                                                                 |                                                                                                                                                     |
|                          | monitor out (loop-through)  | • 3GSDI x 1 (BNC) • HDMI x 1 (HDMI out)                                                                                                                                                                                                                                                                                       |                                                                                                                                                     |
| Signal outputs           |                             |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
| Control and networking   |                             | • HDBaseT (RJ45 x 1) • RJ45 x 1 (Ethernet control over wired network connection)<br>• RS232 x 1<br>• Built-in backlit keypad • IR Remote                                                                                                                                                                                      | • Remote in: 3.5 mm stereo female (provides serial communications and power)<br>• Loop out available for daisy chaining<br>• DC jack 12 VDC, 200 mA |
| Warping and blending     | standard                    | • Christie Twist™                                                                                                                                                                                                                                                                                                             |                                                                                                                                                     |
|                          | optional                    | • Twist Premium and Twist Pro<br>• Mystique™ automated camera-based alignment                                                                                                                                                                                                                                                 |                                                                                                                                                     |
| TAA-compliant            |                             | • Yes                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     |
| Lenses                   | mount type                  | • Boresight adjustable • Motorized horizontal and vertical lens offset (memory available)<br>• Motorized zoom and focus adjustment (memory available for full ILS lenses)                                                                                                                                                     |                                                                                                                                                     |
|                          | lens options                | • 0.38:1 ultra short throw lens                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
|                          | zoom/focus memory           | • 0.65-0.75 zoom lens • 1.2-1.5:1 zoom lens • 1.5-2.0:1 zoom lens • 2.0-4.0:1 zoom lens<br>• 4.0-7.0:1 zoom lens • 7.2-10.8 zoom lens                                                                                                                                                                                         |                                                                                                                                                     |
|                          | no zoom/focus memory        | • 0.84-1.02:1 zoom lens • 1.02-1.36:1 zoom lens                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
|                          | offsets for 0.38:1 UST lens | • +100/-55% Vertical • +4/-28% Horizontal                                                                                                                                                                                                                                                                                     |                                                                                                                                                     |
|                          | offsets for 0.84-1.02:1     | • +108/-74% Vertical • +29/-42% Horizontal                                                                                                                                                                                                                                                                                    |                                                                                                                                                     |
|                          | offsets for 1.02:1-1.36:1   | • +124/-98% Vertical • +40/-49% Horizontal                                                                                                                                                                                                                                                                                    |                                                                                                                                                     |
|                          | offsets for full ILS Lenses | • ±140% Vertical • ±50% Horizontal                                                                                                                                                                                                                                                                                            |                                                                                                                                                     |
| Accessories              | standard                    | • IR remote with wired remote jack (wire not included) • AC line cord for projector • Product Safety Guide                                                                                                                                                                                                                    |                                                                                                                                                     |
|                          | optional                    | • Christie® One Mount Plus (140-117100-XX)<br>• One Mount Extender Rod (121-125109)<br>• One Mount Rigging Kit (used with One Mount, One Mount Plus Extender Rod) (121-126100-XX)                                                                                                                                             | • Christie One Rigging Frame (140-113106-XX)<br>• Fog Filter with Frame (003-005714-XX)<br>• Fog Filter module (003-005715-XX)                      |
| Power requirements       | operating voltage           | • Normal: 200-240 VAC, 50/60 Hz, 6.5 A, or 110 VAC~, 50/60 Hz, 12 A for U.S. only                                                                                                                                                                                                                                             | • Normal: 200-240 VAC, 50/60 Hz, 6.5 A                                                                                                              |
|                          | power consumption           | • Normal: 1,270W • ECO1: 1,024W • ECO2: 640W                                                                                                                                                                                                                                                                                  | • Normal: 1,604W • ECO1: 1,284W • ECO2: 802W                                                                                                        |
|                          | operating current           | • Normal: 6.5 A (200-240 VAC), 12 A (110 VAC)                                                                                                                                                                                                                                                                                 | • Normal: 8.5 A (200-240 VAC)                                                                                                                       |
|                          | dissipation at 110 V        | • Normal: 4,234 BTU/hr • ECO1: 3,385 BTU/hr                                                                                                                                                                                                                                                                                   |                                                                                                                                                     |
|                          | dissipation at 220 V        | • Normal: 4,037 BTU/hr • ECO1: 3,228 BTU/hr                                                                                                                                                                                                                                                                                   | • Normal: 5,302 BTU/hr • ECO1: 4,006 BTU/hr                                                                                                         |
| Audible noise            |                             | • Standard: 41dBA • ECO2: 35dBA (2x wheel speed)<br>• Standard: 42dBA • ECO2: 37dBA (3x wheel speed)                                                                                                                                                                                                                          | • Standard: 44dBA • ECO2: 36dBA (2x wheel speed)<br>• Standard: 45dBA • ECO2: 39dBA (3x wheel speed)                                                |
|                          |                             |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                     |
| Physical                 | size                        | • (LxWxH) 26.65 x 23.46 x 7.99" (677 x 596 x 203 mm) without feet                                                                                                                                                                                                                                                             |                                                                                                                                                     |
|                          | shipping size               | • (LxWxH) 37.99 x 31.30 x 14.37" (965 x 795 x 365 mm)                                                                                                                                                                                                                                                                         |                                                                                                                                                     |
|                          | weight                      | • 91.5 lbs (41.6 kg)                                                                                                                                                                                                                                                                                                          |                                                                                                                                                     |
|                          | shipping weight             | • 117.7 lbs (53.3 kg)                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     |
| Operating environment    | temperature                 | • 32-104 F (0-40 C)                                                                                                                                                                                                                                                                                                           |                                                                                                                                                     |
|                          | humidity                    | • 10-85% non-condensing                                                                                                                                                                                                                                                                                                       |                                                                                                                                                     |
| Regulatory               |                             | • This product conforms to all relevant European directives, standards, safety, health, and environmental concerns<br>• Directives: RoHS • REACH • WEEE • Contact Christie for timing of certifications: UL/CSA/IEC 60950-1<br>• FCC Class A • cTUVus • CE • FDA • CCC • KC • PSE • EAC • BIS • VCCI • RCM • Mexico • BSMI    |                                                                                                                                                     |
| Warranty                 |                             | • Five years parts and labor on the projector<br>• Five years or 20,000 hours parts and labor on the illumination system <sup>2</sup><br>• Contact an authorized Christie representative for full details of our limited warranty                                                                                             |                                                                                                                                                     |

<sup>1</sup> Brightness level is +/- 5%

<sup>2</sup> Reference the Christie Standard Limited Warranty document for details

For the most current specification information, please visit [christiedigital.com](http://christiedigital.com)

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