

VLHIVE 151 DIGITAL FX

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Project: _____

The VLHive 151 Digital FX is a true evolution in entertainment lighting, a next-generation luminaire with advanced digital animation effects never before possible with an entertainment lighting fixture. Designed and built in Vari-Lite's Dallas, TX, USA headquarters, the VLHive includes a digital light engine, with 45,000 lumens of output and pixel-level control.

Thanks to user-loadable effects and familiar DMX control, the luminaire fosters better collaboration between lighting, video, and creative teams while remaining, at its heart, a light fixture. Built with Vari-Lite's commitment to longevity and featuring the widest range of design possibilities of any fixture on the market, the VLHive 151 promises to provide fresh design looks for years to come.



- Patent-pending multichromatic light engine featuring 151 individually controlled LEDs with calibrated RGBL color and a max output of 45,000 lumens- create bright, digitally generated images and animation effects
- High-impact 300mm (12") front lens fitted with patent pending Vari*glass projection technology- large impact washes, digitally created beams, and direct-view set piece effects
- Digital images (80 pre-installed and 60 user installable**) with scaling, keystoneing, polar positioning, and more- endless variety of "gobo" type images without mechanical constraints **Requires Vari-Lite HiveCreator software to upload
- Digital animation effects (50 pre-installed and 50 user installable**) - produce video-style animation effects where the output remains the true light source and where black is true black (out), not "video black".
- Integrated hue, saturation and contrast control of animation- fine tune animations for unlimited possibilities in creating digitally driven looks from the lighting desk
- 16-bit dimming control, continuously rotating digital 4 blade framing shutters, and 100% closing digital iris-global masterlevel control of the projected beam with fewer physical optics for max output
- Patent pending SmartColor+ system, optional open-source color mixing, calibrated VL library preset colors, background colors and color effects- advanced color system that expands color control options
- Hybrid optical system combining traditional 2:1 optical and digital scale- produces wide angle washes and effect or pinpoint beams
- Multiple control options, including DMX (RDM) via 5 PIN XLR, Ethernet protocols via dual Ethercon control connection, and dual Ethercon connections for video integration such as NDI***- comprehensive digital connectivity for every application ***Function to be added late 2025
- Robust IP65 mechanical design coupled with integrated advanced feature sensors and data log reporting- Built to tour

For detailed product information, please refer to the Product Guide at <https://www.vari-lite.com/global/products/vlhive-151-dfx>



VARI*LITE

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Source

LED System	Multichromatic Light Engine
Source Max Power Consumption	1500 W
Source Lumens	110,000
LED Refresh Rate	250hz to 2000hz
Dimming	Electronic 16-bit
Dimmer Curves	Square Law (Default), Linear, S-Curve
Dimmer Control Option	Dimmer Snap On/Off On reduces auto dimmer smoothing
Strobe Speed	0hz to 30hz
Strobe Modes	Continues, Random, Random Sync

Optical Performance

Lens Size	300 mm (12.0 in)
Optical Zoom	2:1 Ratio
Digital Zoom	Narrow Opt Zoom - Wide Opt Zoom
Pixel Ring 1 (1 Pixel)	0.6° to 1.3°
Pixel Ring 2 (7 Pixels)	3.8° to 9.7°
Pixel Ring 3 (19 Pixels)	8.2° to 17.9°
Pixel Ring 4 (37 Pixels)	12.5° to 26°
Pixel Ring 5 (61 Pixels)	16.9° to 33.8°
Pixel Ring 6 (91 Pixels)	21.2° to 41.3°
Pixel Ring 7 (127 Pixels)	25.4° to 48.4°
Pixel Ring 8 (151 Pixels)	26.4° to 50.1°
	See image on next page
Optical Zoom Control	Motorized 8-Bit
Digital Zoom Control	Digital 8- Bit
Image definition control (Focus)	Motorized 8-Bit
Output Lumens	Standard - 45,000 Studio - 36,000 Whisper - 31,500
CRI RA	Smart Color 3200K - 88 Smart Color 4000K - 88 Smart Color 6500K - 82 Smart Color 10,000K - 74
	***Range Adjusted via CRI enhancement color channel to boost CRI 'v' MAX output

Imaging

Digital Framing	4- Blade - Full Wipe 360° continuous rotation
Digital Iris	100% closing

Certification and Safety

Approbations	CE, FCC, RCM, ISED, UKCA, ETL, CB
Compliance	EU Safety: EN 60598-2-17 EU RoHS: EN 5081 US Safety: UL 1573 Canada Safety: C22.2 No. 166 Other: EN 62471

Color System

Additive color mixing	RGBL
Smartcolor+ / Open source	16-Bit digital control
Color calibration	Yes
Color Mixing Control Option	Color Snap On/Off On reduces auto smoothing color to create faster color changes
Smartcolor+	2700K to 10,000K
Color Presets Primary	33 Preset Colors + 20 User recordable
Background Color	33 Preset Colors + Invert Color
Image Color Effects	40 image applied color effects
Animation Color Control	Hue, Saturation and Contrast

Electrical

Max output power consumption	2400 W (inc PFC)
	Smart Power management limits max current draw based on supply voltage monitoring
Power Connection	TrueOne compatible *Power cable not included - input connector only
Input Voltage	100-250VAC 50/60 Hz
Standby Power Draw	.9A at 208V 60Hz, Pf .60

Data

Supported Protocols	DMX (RDM), Art-Net, sACN, RDM NET NDI* *Later 2025
DMX Modes	Mode 1 - 85 Channels
Data Connections	2x 5-pin XLR, 4x RJ45, Wireless DMX (Lumen Radio), USB Data

Noise Level / Fan Control (Base Level 23 dBA)

Standard Mode	53dBA
Studio Mode	45dBA
Whisper Mode	40dBA
Fan Mode	Continuous (On) / Auto
Fan Level Preset	Standard, Studio, Whisper
Cooling System Type	Patent Pending, integrated heat transfer system with active forced air support

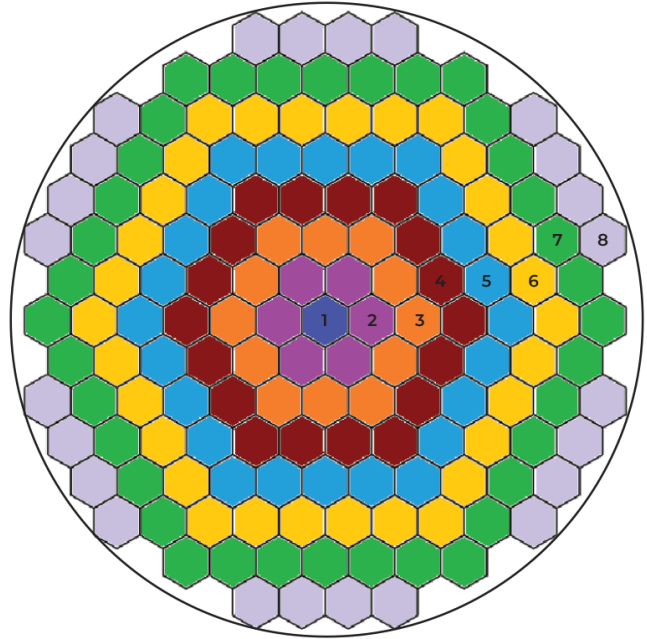
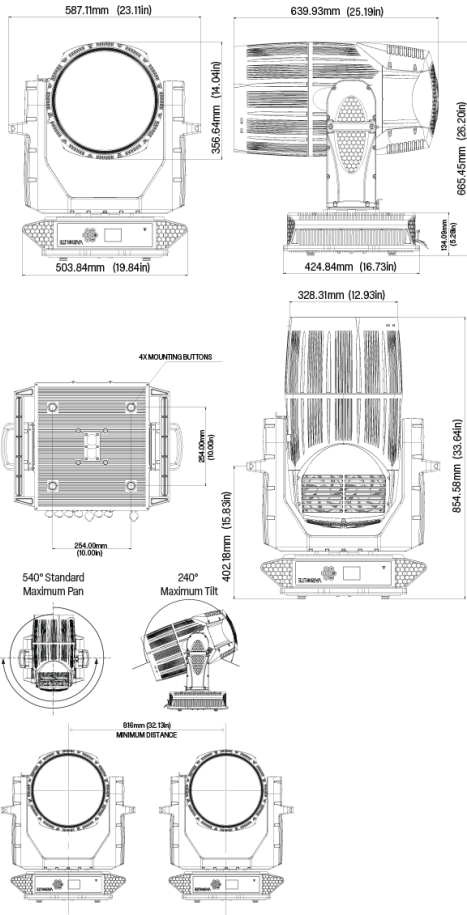
Movement

Pan Angle	540°
Pan Speed (Normal full travel)	5.3 seconds
Tilt Angle	240°
Tilt Speed (Normal, full travel)	2.6 seconds
Calibration System	V*Track Calibration

Mounting

Hanging Type	2x VL Hook Rails L
Hanging Centers	816 mm (32.13in)
Mounting/Hanging Orientation	All
Secondary Safety Wire Point	1x Safety poin on upper enclosure Safety wire not included

Dimensions



Pixel Ring	Opt. Zoom Narrow	Opt. Zoom Wide	Total Pixels used
1	0.6°	1.3°	1
2	3.8°	9.7°	7
3	8.2°	17.9°	19
4	12.5°	26.0°	37
5	16.9°	33.8°	61
6	21.2°	41.3°	91
7	25.4°	48.4°	127
8	26.4°	50.1°	151

Field Angle by Pixel Diameter

Source

Construction	Superstructure Aluminum, magnesium and steel plates, Covers Die Cast Magnesium
IP Rating	IP65
Standard Finish	Black, White
Dimensions	587 x 855 x 425 mm (23.1 x 33.6 x 16.7 in)
Packed Dimensions	TBD
Weight	48.5 kg (107 lb)
Packed Weight	TBD
Surface Treatment	min 2000 hours continuous for salt spray resistant finish

Gobo and Effect Wheels

Factory Loaded Digital Images	80
User Loaded Digital Images	60
Factory Loaded Animations	50
User Loaded Animations	50

Photometrics and IES Files

Narrow Optical @10M / 32.8ft (CCT 6500K)	Pixel Ring 2 - 350 LUX (106 fc)
	Pixel Ring 5 - 2634 LUX (245 fc)
	Pixel Ring 8 - 2718 LUX (258 fc)
Narrow Optical @20M / 65.62ft (CCT 6500K)	Pixel Ring 2 - 338 LUX (31 fc)
	Pixel Ring 5 - 658 LUX (61 fc)
	Pixel Ring 8 - 680 LUX (63 fc)
Wide Optical @10M / 32.8ft (CCT 6500K)	Pixel Ring 2 - 37 LUX (3 fc)
	Pixel Ring 5 - 229 LUX (21 fc)
	Pixel Ring 8 - 483 LUX (45 fc)
Wide Optical @ 20M / 65.62ft (CCT 6500K)	Pixel Ring 2 - 9 LUX (1 fc)
	Pixel Ring 5 - 57 LUX (5 fc)
	Pixel Ring 8 - 121 LUX (11 fc)

For IES files and photometric reports, please refer to the product page: <https://www.vari-lite.com/global/products/vlhive-151-dfx>

Lumianire and Accessories

Product type**Order Code**

VLHIVE 151 DIGITAL FX, BLACK

74820-001

VLHIVE 151 DIGITAL FX, 1500W MULTICHROMATIC DIGITAL LIGHT ENGINE, C/W 2 X HANGING RAILS, AND POWER INPUT CONNECTOR, BLACK

VLHIVE 151 DIGITAL FX, WHITE

74820-101

VLHIVE 151 DIGITAL FX, 1500W MULTICHROMATIC DIGITAL LIGHT ENGINE, C/W 2 X HANGING RAILS, AND POWER INPUT CONNECTOR, WHITE

Accessories

