

# SKYWRITER HPX M-20

## INFO & SPECIFICATIONS



### Top Features

- 20W of balanced, direct-diode RGB power
- Full RGB 1,000+ colors to match and blend perfectly with traditional moving head fixtures
- X-Laser's Mercury control firmware integrated for direct lighting console control using common protocols such as sACN, RDM, Art-Net, etc.
- Instant "gobo"/digital pattern changes and rapid 30K scanners for smooth pattern motion
- 0.1° to 45° zoom range
- Active diagnostic readouts via LCD panel
- X-Laser's no-hassle 2-year warranty

The **X-Laser Skywriter HPX M-20** strikes an ideal balance between power and efficiency, delivering 20 watts of full-color RGB output for high-impact laser shows. Designed for production professionals, this fixture offers excellent value for mid-range applications—from medium-sized indoor venues and larger performance spaces to outdoor events and festivals.

Thanks to its integrated **Mercury Laser Control System**, the M-20 is fully compatible with lighting consoles using DMX, Art-Net, or sACN. It features over 450 gobos, 11 digital prisms, 50 color macros, and 60 motion macros with adjustable speed and amplitude, giving you the creative flexibility you'd expect from any other top-brand programmable lighting fixture. With over 1,000 analog-mixed RGB colors available, you'll have a rich palette for show design.

Built for durability and reliability, the M-20 has a sealed optical deck that shields internal optics from wind, dust, and moisture. Cooling is handled by an array of external fans and massive heat-sink surfaces, maintaining stable operation even during long or demanding shows. Despite its 20W output, the **Skywriter HPX M-20** is relatively efficient: it draws around 280W typical power (with up to 400 W peak), which makes for a solid power-to-performance ratio. Every unit is double-quality checked in a 26-point inspection to ensure reliability, and it comes backed by X-Laser's industry-leading variance support and 2-year "no-hassle" warranty.

Whether you're a production company, touring act, or rental house, the **Skywriter HPX M-20** delivers pro-level brightness, control, and dependability, while maintaining a smart power draw and a strong value proposition.

**SKYWRITER HPX M-20****INFO & SPECIFICATIONS****SOURCE**

20W Balanced RGB Laser Engine  
Direct-Injection Diode Modules

Red: 638 nm  
Green: 520 nm  
Blue: 450 nm

6.5W red, 6.5W green, 8.0W blue

**PHOTOMETRICS / OPTICS**

High-Speed Closed-Loop Galvanometers,  
Max Scan Angle 45°  
30,000 PPS Scanner Speed at 8° Scan Angle

Beam Divergence: <1.2 mRad

Fully Sealed Optical Deck

**ELECTRICAL / THERMAL**

90-246V AC Auto-Switching  
Power draw: 400W peak  
Neutrik PowerCON TRUE1

30° F to 105° F (-1° C to 41° C)

**OTHER**

FDA / IEC Hazard Class IV  
U.S. FDA Variance Required

**CONTROL AND INTERFACE**

X-Laser Mercury Integrated, 2.25" LCD panel  
Fixture profiles for all major console brands

EtherStop Combined Remote Stop  
and Control Data in / thru

ILDA in / thru  
5-pin DMX in / thru  
PowerCON TRUE1 in / thru

**COLOR AND EFFECTS**

Additive RGB Analog Color Mixing  
1,000+ Colors  
50 Color Macros  
11 Digital Prisms  
450+ "Gobos" / Digital Patterns Built-In  
60 Motion Macros with variable speed and  
amplitude

**DIMENSIONS / PHYSICAL / MATERIALS**

14" L x 13.4" W x 7.7" H (12.4" H w/ yoke up)  
(355 mm x 340 mm x 195 mm; 314mm yoke up)

Weight: 23 lbs (10.4 kg)

Rugged 6061 Aluminum Enclosure

IP Rating: IP53

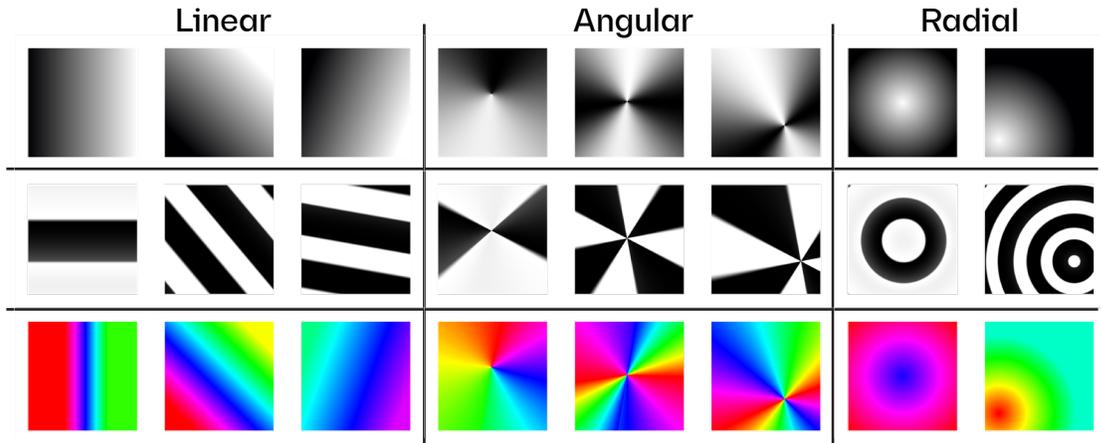
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## MERCURY FEATURES

### COLOR CONTROL USING MERCURY

#### Gradients

Fade from one RGB color to another, fade distance and offset are controllable



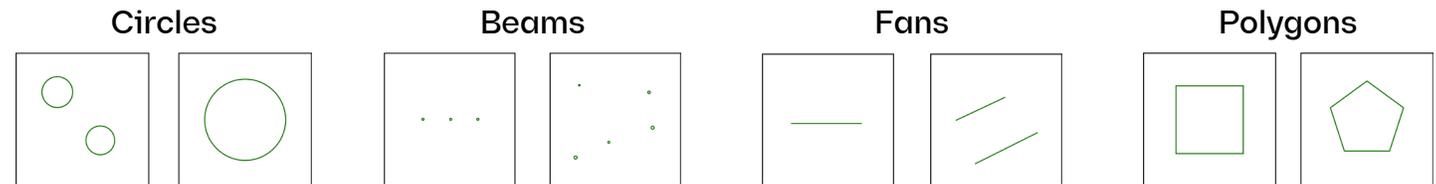
#### Bands

Alternate between 2 RGB colors, band sizes and transitions are controllable

#### Rainbows

Transition between 2 HSL colors through color wheel; transition offset, size and direction are controllable

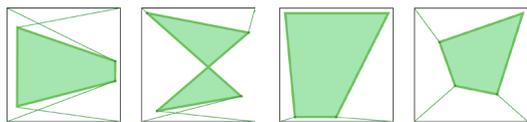
### BUILT-IN MERCURY PATTERNS (“GOBOS”)



...and dozens more

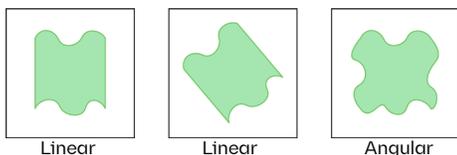
### ZONING AND ZONE CORRECTION USING MERCURY

Facilities keystone, skew, offset, inversion and much more using 4 intuitive control points

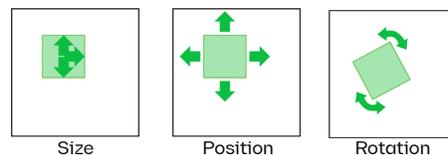


### “GOBO” TRANSFORMATIONS AND EFFECTS USING MERCURY

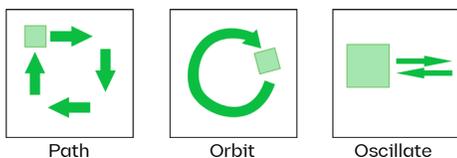
#### Wave Modulation



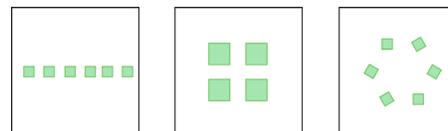
#### Geometric



#### Motion

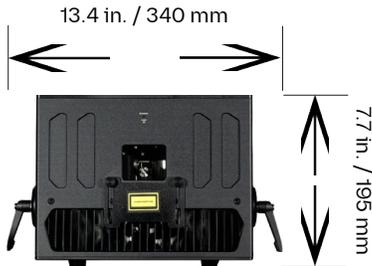


#### Prism



**SKYWRITER HPX M-20**

**UNIT DIMENSIONS**



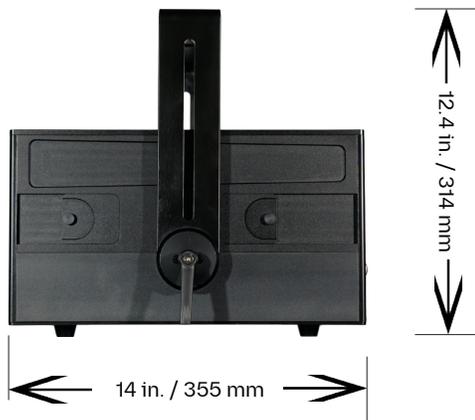
Front, Yoke Back



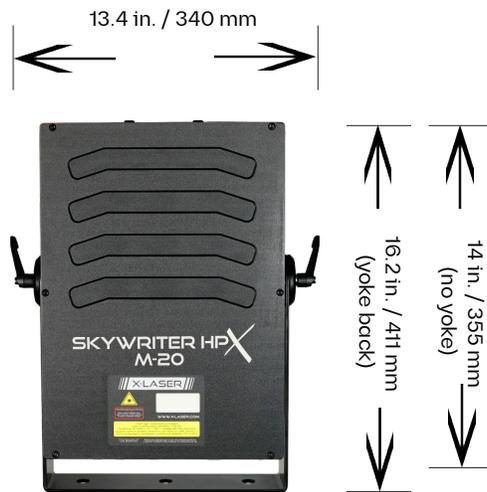
Front, Yoke Up



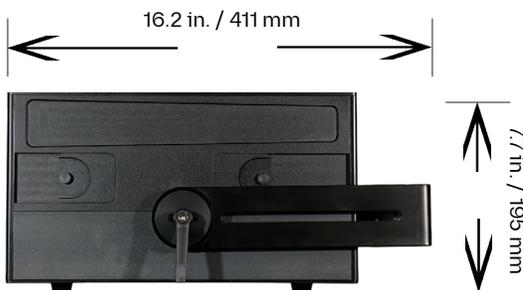
Rear, Yoke Up



Side, Yoke Up



Top/Overhead



Side, Yoke Back