



IMAGIC WEAVE® HE

The IMAGIC WEAVE® HE (High Efficiency) is a flexible system of modular high brightness with SMT LED profiles mounted on a Haver & Boecker architectural wire mesh. The LEDs are embedded into stainless steel tubes with 40mm, 50mm or 62.5mm pitch. Together with TX Control, auto-addressing, and easy installation, the IP67-rated system is ideal for video and graphics displays on walls and building façades.



Product Specifications

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| Light Source | High intensity Nichia SMT RGB LEDs (2 SMT LEDs per pixel) |
| Color Range | 16.7 Million additive RGB colors |
| Color Resolution | 3 × 16-bit (Gamma correction) |
| Viewing Angle | 110° |
| Luminous Flux ¹ | 237 lm |
| Efficacy ¹ | 21.5 lm/W |
| Pixel Pitch ² (H × V) | 40 × 40mm; 50 × 50mm; 62.5 × 62.5mm; 1.57" × 1.57"; 1.96" × 1.96"; 2.46" × 2.46" |
| Brightness (typ.) | 40 × 40mm pitch: 2200 nits (cd/m ²) 50 × 50mm pitch: 1400 nits (cd/m ²) 62.5 × 62.5mm pitch: 900 nits (cd/m ²) |
| Typical LED Refresh Rate | >9 kHz |
| Housing | Stainless steel tubes with silicone potting |
| Adjustment Options | |
| Dimensions ³ (L × W × H) | 473 to 2983 × 14 × 22.8mm 18.6" to 117.4" × 0.6" × 0.9" |
| Weight | LED Profile - 0.6kg per meter / 0.4lbs per foot |
| Regulatory Listing & Safety Approval | CE, cETLus |
| Operating Temperature | -30°C to +60°C / -22°F to +140°F |
| Storage Temperature | -40°C to +70°C / -40°F to +158°F |
| Environment | Outdoor (IP67), UV resistant |
| Humidity | 0 to 90% |

Electrical Specifications

| | |
|-------------------|--|
| Operating Voltage | 48V DC |
| Power Consumption | Average 0.48W per pixel with RGB full on |

System Specifications

| | |
|----------------------|-------------------------------|
| Power/Data Interface | TX CONNECT |
| Control | DMX512 / e:pix / DVI capable |
| Power Supply | LED Engine Smart 3000W Indoor |

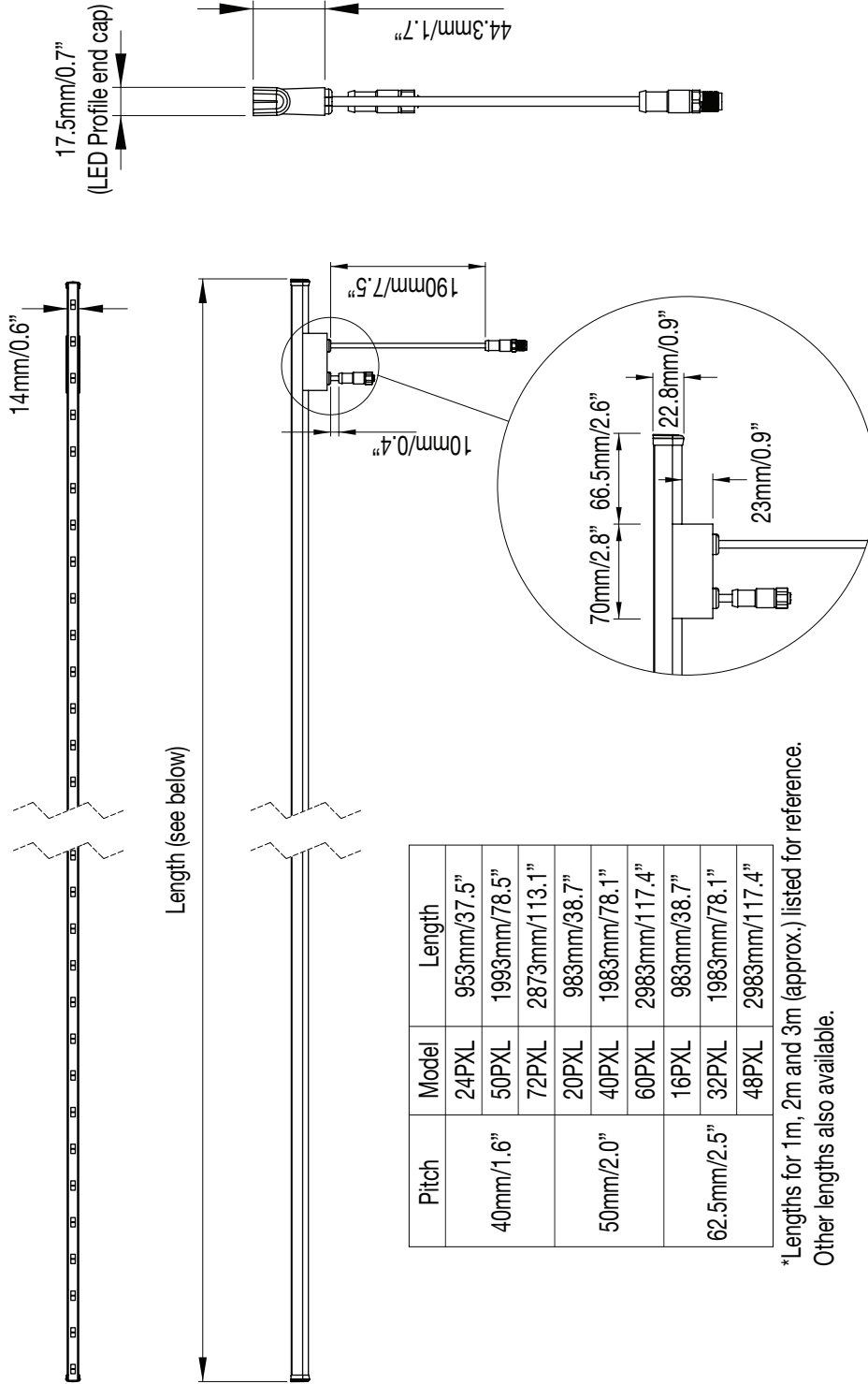
Addressing Options

Auto-Addressing

1. Based on photometric data and maximum power consumption of 1 x IMW HE Tube (24 PXL, 40mm pitch).
2. Standard pitches listed, customized pitches are available upon request.
3. Length will depend on the configuration, eg. number of pixels and pixel pitch. This product is NOT suitable for coastal environments. Any such installation will void the product warranty.

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

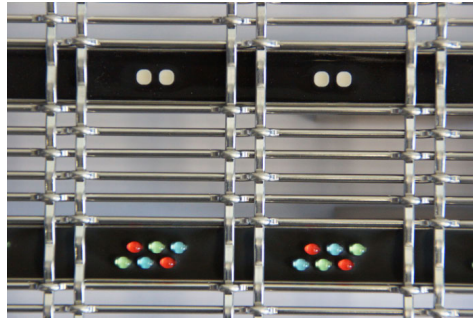
As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.



*Lengths for 1m, 2m and 3m (approx.) listed for reference. Other lengths also available.

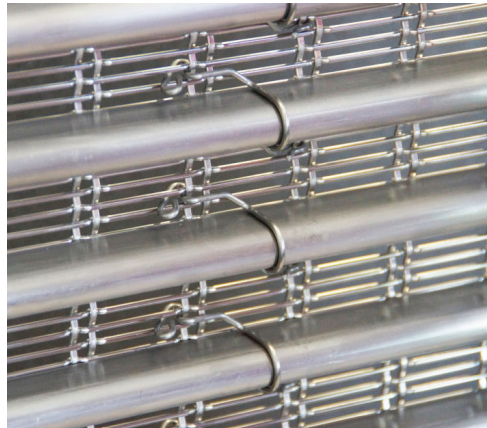
Front

Section of wire mesh with
LED profile mounted.
Top: IMAGIC WEAVE® HE
Bottom: IMAGIC WEAVE® HO



Rear – clipping and connecting the LED Profiles

Section showing
how the LED profile is clipped
onto the wire mesh.



Example of interconnection of
LED profiles.



