

# Holoscape Display Product Comparison Chart

REV. 1.0 2024-01-13

## Surface-Mounted

### ('M' Series)

|   | M2 Module   | M3 Module <sup>a</sup>   | M6 Module <sup>a</sup>   | M10 Module  |
|---|---|--|--|---|
| Pixel Pitch (horizontal and vertical)                   | 2.5 mm  | 3.91 mm  | 6.25 mm  | 10 mm   |
| Pixel Density (pixels per area)                         | 160,000/m <sup>2</sup> (14,864/ft <sup>2</sup> )                  | 65,536/m <sup>2</sup> (6,088/ft <sup>2</sup> )   | 25,600/m <sup>2</sup> (2,378/ft <sup>2</sup> )   | 10,000/m <sup>2</sup> (929/ft <sup>2</sup> )                      |
| Apparent Transparency                                   | 70%   | 80%  | 90%  | 95%   |
| Module Display Dimensions (width x height) <sup>b</sup> | 125 mm x 1000 mm (4.92" x 39.37")                                 | M3-S: 250 mm x 1000 mm (9.84" x 39.37")<br>M3-L: 250 mm x 1171 mm (9.84" x 46.10")   | M6-S: 250 mm x 1175 mm (9.84" x 46.26")<br>M6-L: 250 mm x 1475 mm (9.84" x 58.07")   | 250 mm x 1000 mm (9.84" x 39.37")                                 |
| Module Profile Dimensions (width x height)              | 125 mm x 1025 mm (4.92" x 40.35")                                 | M3-S: 250 mm x 1025 mm (9.84" x 40.35")<br>M3-L: 250 mm x 1200 mm (9.84" x 47.24")   | M6-S: 250 mm x 1200 mm (9.84" x 47.24")<br>M6-L: 250 mm x 1500 mm (9.84" x 59.05")   | 250 mm x 1000 mm (9.84" x 39.37")                                 |
| Resolution (pixel count width x height)                 | 50 pixels x 400 pixels  | M3-S: 64 pixels x 256 pixels<br>M3-L: 64 pixels x 300 pixels   | M6-S: 40 pixels x 188 pixels<br>M6-L: 40 pixels x 236 pixels   | 25 pixels x 120 pixels  |
| Weight (Module and electronics)                         | 1.63 kg (3.59 lb)   | 1.6 kg (3.53 lb)   | 1.6 kg (3.53 lb)   | 1.2 kg (2.65 lb)  |
| Brightness (in candelas per meter [nits])               | ≥1200 cd/m <sup>2</sup> (111.48 cd/ft <sup>2</sup> ) <sup>c</sup> | Black pixels: ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> )<br>White pixels: ≥4000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> ) | Black pixels: ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> )<br>White pixels: ≥5000 cd/m <sup>2</sup> (464.51 cd/ft <sup>2</sup> ) | ≥4000 cd/m <sup>2</sup> (371.61 cd/ft <sup>2</sup> ) <sup>f</sup> |
| Scanning Mode   | Static Driving (single pixel, single control)                     | Static Driving (single pixel, single control)  | Static Driving (single pixel, single control)  | Static Driving (single pixel, single control)                     |
| Encapsulation Type                                      | Light Board & Driving Board Integrated                            | Light Board & Driving Board Integrated   | Light Board & Driving Board Integrated   | Light Board & Driving Board Integrated                            |
| LED Lifespan  | ≥ 100,000 hours   | ≥ 100,000 hours  | ≥ 100,000 hours  | ≥ 100,000 hours   |
| Pixel Grayscale Depth                                   | 16 bit  | 16 bit   | 16 bit   | 16 bit  |
| Maximum Power Consumption (in watts)                    | 800 W/m <sup>2</sup> (74.32 W/ft <sup>2</sup> )                   | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )   | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )   | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )                  |
| Average Power Consumption (in watts)                    | 300 W/m <sup>2</sup> (27.87 W/ft <sup>2</sup> )                   | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )  | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )  | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )                   |
| Control System  | Colorlight or Novastar  | Colorlight or Novastar   | Colorlight or Novastar   | Colorlight or Novastar  |
| Input Voltage   | AC100V~240V 50/60Hz   | AC100V~240V 50/60Hz  | AC100V~240V 50/60Hz  | AC100V~240V 50/60Hz   |
| Working Voltage   | DC4.2V ±0.2V  | DC4.2V ±0.2V   | DC4.2V ±0.2V   | DC4.2V ±0.2V  |
| Working Temperature                                     | -20°C to 50°C   | -20°C to 50°C  | -20°C to 50°C  | -20°C to 50°C   |
| Working Humidity (without condensation)                 | Up to 85% RH  | Up to 85% RH   | Up to 85% RH   | Up to 85% RH  |
| Storage Temperature                                     | -20°C to 60°C   | -20°C to 60°C  | -20°C to 60°C  | -20°C to 60°C   |
| Storage Humidity (without condensation)                 | Up to 85% RH  | Up to 85% RH   | Up to 85% RH   | Up to 85% RH  |
| Protection Degree                                       | IP20  | IP20   | IP20   | IP20  |
| Installation Environment                                | Indoor  | Indoor   | Indoor   | Indoor  |

The relevant parameters in the table are subject to updates, and the data is for reference only. Updates will be made without notice.

- <sup>a</sup> The M3 and M6 Modules each are available in two lengths.
- <sup>b</sup> Width and height dimensions represent orientation where electronics are at top or bottom. Surface-mounted modules may be mounted 90° to this orientation, where electronics are on the sides.
- <sup>c</sup> M2 pixels are smaller and lower in brightness to reduce heat and extend pixel lifetime. The brightness of the Module comes from its pixel density.
- <sup>d</sup> M3 and M6 pixels are the same, but M3 'white pixel' is limited in brightness to allow proper heat dispersion.
- <sup>e</sup> The M6 'white pixel' is at full brightness at 5000 nits due to less pixel density, allowing proper heat dispersion and extending pixel lifetime.
- <sup>f</sup> The M10 is at full brightness at 4000 nits due to less pixel density, thusly less pixels per unit of area.

### Option considerations:

\*White pixels\* are brighter and intended for installations that will compete with bright light sources, such as sunlight. \*Black pixels\* are intended for indoor display. Modules can be mounted in two ways: (1) with the adhesive on the backing for display inwards from window, or (2) with the adhesive on the LEDs for display outwards through a window.

## Poster

### ('A' Series)

|   | A3-2 Poster  | A3-4 Poster   |
|---|--|---|
| Pixel Pitch (horizontal and vertical)                               | 3.91 mm  | 3.91 mm   |
| Pixel Density (pixels per area)                                     | 65,536/m <sup>2</sup> (6,088/ft <sup>2</sup> )       | 65,536/m <sup>2</sup> (6,088/ft <sup>2</sup> )        |
| Apparent Transparency   | 80%  | 80%   |
| Poster Display Dimensions (width x height)                          | 1000 mm x 2000 mm (39.37" x 78.74")                  | 2000 mm x 2000 mm (78.74" x 78.74")                   |
| Poster Profile Dimensions (width x height x thickness) <sup>b</sup> | 1021 mm x 2452 mm x 500 mm (40.2" x 96.54" x 19.69") | 2021 mm x 2452 mm x 500 mm (79.57" x 96.54" x 19.69") |
| Resolution (pixel count width x height)                             | 256 pixels x 512 pixels                              | 512 pixels x 512 pixels                               |
| Weight (entire unit with feet)                                      | 40 kg (88.18 lb)                                     | 60 kg (132.28 lb)                                     |
| Brightness (in candelas per meter [nits])                           | ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> ) | ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> )  |
| Scanning Mode   | Static Driving (single pixel, single control)        | Static Driving (single pixel, single control)         |
| Encapsulation Type  | Light Board & Driving Board Integrated               | Light Board & Driving Board Integrated                |
| LED Lifespan  | ≥ 100,000 hours                                      | ≥ 100,000 hours                                       |
| Pixel Grayscale Depth   | 16 bit   | 16 bit  |
| Maximum Power Consumption (in watts)                                | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )     | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )      |
| Average Power Consumption (in watts)                                | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )      | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )       |
| Control System  | Colorlight or Novastar                               | Colorlight or Novastar                                |
| Input Voltage   | AC100V~240V 50/60Hz                                  | AC100V~240V 50/60Hz                                   |
| Working Voltage   | DC4.2V ±0.2V   | DC4.2V ±0.2V  |
| Working Temperature   | -20°C to 50°C  | -20°C to 50°C   |
| Working Humidity (without condensation)                             | Up to 85% RH   | Up to 85% RH  |
| Storage Temperature   | -20°C to 60°C  | -20°C to 60°C   |
| Storage Humidity (without condensation)                             | Up to 85% RH   | Up to 85% RH  |
| Protection Degree   | IP20   | IP20  |
| Installation Environment <sup>c</sup>                               | Indoor or temporary, dry outdoor use                 | Indoor or temporary, dry outdoor use                  |
| Frame Material  | Aviation Aluminum Alloy                              | Aviation Aluminum Alloy                               |
| Frame Horizontal Component Dimensions (width x height x thickness)  | 1021 mm x 111 mm x 75 mm (40.2" x 4.37" x 2.95")     | 2021 mm x 111 mm x 75 mm (40.2" x 4.37" x 2.95")      |
| Frame Vertical Component Dimensions (width x height x thickness)    | 11 mm x 2230 mm x 75 mm (0.43" x 88.8" x 2.95")      | 11 mm x 2230 mm x 75 mm (0.43" x 88.8" x 2.95")       |

The relevant parameters in the table are subject to updates, and the data is for reference only. Updates will be made without notice.

- <sup>a</sup> The Poster Series is the same as the Suspended Series, but with a removeable wheel base.
- <sup>b</sup> Height and thickness includes the wheel base. The frame itself is 75 mm thick.
- <sup>c</sup> The Poster Series may be temporarily placed for outdoor applications, but must not be exposed to moisture.

### Option considerations:

\*White pixels\* are brighter and intended for installations that will compete with bright light sources, such as sunlight. \*Black pixels\* are intended for indoor display.

## Suspended

### ('A' Series)

|  | A3-2 Suspended Frame                                 | A3-4 Suspended Frame                                 |
|--|--|--|
| Pixel Pitch (horizontal and vertical)                              | 3.91 mm  | 3.91 mm  |
| Pixel Density (pixels per area)                                    | 65,536/m <sup>2</sup> (6,088/ft <sup>2</sup> )       | 65,536/m <sup>2</sup> (6,088/ft <sup>2</sup> )       |
| Apparent Transparency  | 80%  | 80%  |
| Poster Display Dimensions (width x height)                         | 1000 mm x 2000 mm (39.37" x 78.74")                  | 2000 mm x 2000 mm (78.74" x 78.74")                  |
| Poster Profile Dimensions (width x height x thickness)             | 1021 mm x 2230 mm x 75 mm (40.2" x 88.8" x 2.95")    | 2021 mm x 2230 mm x 75 mm (79.57" x 88.8" x 2.95")   |
| Resolution (pixel count width x height)                            | 256 pixels x 512 pixels                              | 512 pixels x 512 pixels                              |
| Weight (entire unit)   | 30.08 kg (66.32 lb)                                  | 40.16 kg (88.54 lb)                                  |
| Brightness (in candelas per meter [nits])                          | ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> ) | ≥3000 cd/m <sup>2</sup> (278.71 cd/ft <sup>2</sup> ) |
| Scanning Mode  | Static Driving (single pixel, single control)        | Static Driving (single pixel, single control)        |
| Encapsulation Type   | Light Board & Driving Board Integrated               | Light Board & Driving Board Integrated               |
| LED Lifespan   | ≥ 100,000 hours                                      | ≥ 100,000 hours                                      |
| Pixel Grayscale Depth  | 16 bit   | 16 bit   |
| Maximum Power Consumption (in watts)                               | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )     | 1000 W/m <sup>2</sup> (92.90 W/ft <sup>2</sup> )     |
| Average Power Consumption (in watts)                               | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )      | 375 W/m <sup>2</sup> (34.84 W/ft <sup>2</sup> )      |
| Control System   | Colorlight or Novastar                               | Colorlight or Novastar                               |
| Input Voltage  | AC100V~240V 50/60Hz                                  | AC100V~240V 50/60Hz                                  |
| Working Voltage  | DC4.2V ±0.2V   | DC4.2V ±0.2V   |
| Working Temperature  | -20°C to 50°C  | -20°C to 50°C  |
| Working Humidity (without condensation)                            | Up to 85% RH   | Up to 85% RH   |
| Storage Temperature  | -20°C to 60°C  | -20°C to 60°C  |
| Storage Humidity (without condensation)                            | Up to 85% RH   | Up to 85% RH   |
| Protection Degree  | IP20   | IP20   |
| Installation Environment <sup>b</sup>                              | Indoor or temporary, dry outdoor use                 | Indoor or temporary, dry outdoor use                 |
| Frame Material   | Aviation Aluminum Alloy                              | Aviation Aluminum Alloy                              |
| Frame Horizontal Component Dimensions (width x height x thickness) | 1021 mm x 111 mm x 75 mm (40.2" x 4.37" x 2.95")     | 2021 mm x 111 mm x 75 mm (40.2" x 4.37" x 2.95")     |
| Frame Vertical Component Dimensions (width x height x thickness)   | 11 mm x 2230 mm x 75 mm (0.43" x 88.8" x 2.95")      | 11 mm x 2230 mm x 75 mm (0.43" x 88.8" x 2.95")      |

The relevant parameters in the table are subject to updates, and the data is for reference only. Updates will be made without notice.

- <sup>a</sup> The Suspended Series is the same as the Poster Series, but without the wheel base.
- <sup>b</sup> The Suspended Series may be temporarily placed for outdoor applications, but must not be exposed to moisture.

### Option considerations:

\*White pixels\* are brighter and intended for installations that will compete with bright light sources, such as sunlight. \*Black pixels\* are intended for indoor display.