



# MERCURY SERIES

Mercury is the smallest planet in the Solar System and the closest to the Sun. Its orbit around the Sun takes 87.97 Earth days.

AURA VISION

# MERCURY SERIES

Fixed Installation Outdoor LED Display



## OVERVIEW & APPLICATIONS

Designed mainly for outdoor commercial display with different cabinet size which give a flexibility for any screen location.

Pixel-Pitch Range: 1.9mm, 2.5mm, 2.9mm, 3.9mm, 4.8mm, 5.7mm, 6.6mm, 8mm, 10mm

1.9mm: 500x500 (250x250)

2.5mm: 640x640 (320x160)

2.9mm: 500x500/750 (250x250)

3.9~4.8mm: 500x500/750/1000 (500x250)

5.7~10mm: 960x640/960/1280, 1440x640/960/1280 (480x320)

6.6~10mm: 800x900/1200, 1200x1200 (400x300)



## FEATURES

- Light weight: <math><30\text{KG}/\text{m}^2</math>
  - Shareable components HUB, power supply
  - Cable-less design: power and signal cables are hidden at the bottom of the panel.
  - Hard connection: BTB connector replace data and power cables, high stability.
  - Customized design: support customized 90° screen; curved corner design.
  - Fan-less - noise-free PSU.
  - High brightness up to 10,000 nits
  - Aluminium module chassis. IC and PCB hidden design, directly heat transfer with the module chassis, achieve the best effect of heat dissipation.
  - High refresh rate: 3840Hz
  - CCES: common cathode energy saving for low power consumption:
    - 7000nits:
      - 359W/pc 389W/m<sup>2</sup>
    - 10000nits:
      - 556W/pcs 603W/m<sup>2</sup>
- Protective performance:**
- Strong flame resistance
  - Die-casting aluminium material
  - High temperature durability -30°C to 65°C
  - Strong cold resistance and anti-corrosion
  - Entire cabinet reached 5VB fireproofing level
  - Protection level from high to low in UL94:
    - 5VB>V0>V1>V2>HB
  - IP66 (front and back)
  - High standard of waterproofing.
  - Simple lock design, easy front and back maintenance, four locks in one module, only 8 sec installation, save time and labour cost.
  - MERCURY VR is a special design curved 90° corner for a public media art glasses free 3D display.
  - MERCURY and MERCURY VR cabinets share the exactly same specifications, resulting in better compatibility, excellent colour uniformity, and perfect flatness. It is a mature solution for flat + curved splicing.

# SPECIFICATIONS



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MODEL	MERCURY-1.9	MERCURY-2.5	MERCURY-2.9	MERCURY-3.9	MERCURY-4.8
Pixel pitch (mm)	1.95	2.5	2.97	3.91	4.81
Lamp type	SMD 3-in-1 (GOB)	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1
Module size (mm)	250x250	320x160	250x250	500x250	500x250
Module resolution (px)	128x128	128x64	84x84	128x64	104x52
Cabinet size (mm)	500x500x66	640x640x103	500x500x101; 500x750x101	500x500x101; 500x750x101; 500x1000x101	
Cabinet resolution (px)	256x256	256x256	168x168; 168x252	128x128; 128x192; 128x256	104x104; 104x156; 104x208
Weight (Kg/m <sup>2</sup> )	36kg (79.2 lbs)	40kg (88.2 lbs)	34kg (74.9 lbs)	30kg (66.1 lbs)	30kg (66.1 lbs)
IP rating (front/rear)	IP65	IP65/IP54	IP66	IP66	IP66
Refresh rate (Hz)	≥3840	≥3840	≥3840	≥3840	≥3840
Brightness (nits)	3500	5000	4000 ~ 4500	4500 ~ 6500	4500 ~ 6500
Brightness uniformity	≥98%	≥98%	≥98%	≥98%	≥98%
Contrast ratio	12,000:1	5000:1	7,000:1	7,000:1	7,000:1
Gray scale (bit)	16	16	≥14	≥14	≥14
Viewing angle (H/V) °	H: 160° V: 160°	H: 160° V: 140°	H: 160° V: 90°	H: 160° V: 90°	H: 160° V: 90°
Power consumption (w/m <sup>2</sup> )	≤200 (typ.) ≤560 (max.)	≤257 (typ.) ≤770 (max.)	≤280 (typ.) ≤700 (max.)	≤195 (typ.) ≤650 (max.)	≤300 (typ.) ≤760 (max.)
Heat dissipation (BTU/hr/m <sup>2</sup> )	≤628 (typ.) ≤1758 (max.)	≤879 (typ.) ≤2633 (max.)	≤957 (typ.) ≤2394 (max.)	≤1022 (typ.) ≤2589 (max.)	≤1022 (typ.) ≤2589 (max.)
Working voltage	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz
Operating temp (°C)	-10°C ~ 50°C	-30°C ~ 50°C	-30°C ~ 50°C	-30°C ~ 65°C	-30°C ~ 65°C
Operating humidity	10% ~ 90%	10% ~ 80%	10% ~ 90%	10% ~ 90%	10% ~ 90%
LED lifetime (hours)	100,000	100,000	100,000	100,000	100,000
Serviceability	Full front & rear service				
Warranty	2 years standard / 5 years extended				

# SPECIFICATIONS



AURA VISION

MODEL	MERCURY-5.7	MERCURY-6.6	MERCURY-8	MERCURY-10
Pixel pitch (mm)	5.7	6.6	8	10
Lamp type	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1
Module size (mm)	480x320	480x320	480x320	480x320
Module resolution (px)	84x56	72x48	60x40	48x32
Cabinet size (mm)	960x640x101; 960x960x101; 960x1280x101; 1440x640x101; 1440x960x101; 1440x1280x101			
Weight (Kg/m <sup>2</sup> )	30kg (66.1 lbs)	30kg (66.1 lbs)	30kg (66.1 lbs)	30kg (66.1 lbs)
IP rating (front/rear)	IP66	IP66	IP66	IP66
Refresh rate (Hz)	≥3840	≥3840	≥3840	≥3840
Brightness (nits)	6000 ~ 9000	6000 ~ 9000	6000 ~ 10000	6000 ~ 10000
Brightness uniformity	≥97%	≥97%	≥97%	≥97%
Gray scale (bit)	14-16	14-16	14-16	14-16
Contrast Ratio	7,000:1	7,000:1	7,000:1	10,000:1
Viewing angle (H/V) °	H: 170° V: 110°	H: ≥170° V: ≥110°	H: ≥170° V: ≥110°	H: ≥170° V: ≥110°
Power consumption (w/m <sup>2</sup> )	≤200 (typ.) ≤580 (max.)	≤200 (typ.) ≤580 (max.)	≤190 (typ.) ≤550 (max.)	≤190 (typ.) ≤550 (max.)
Heat dissipation (BTU/hr/m <sup>2</sup> )	≤681 (typ.) ≤1976 (max.)	≤681 (typ.) ≤1976 (max.)	≤647 (typ.) ≤1874 (max.)	≤647 (typ.) ≤1874 (max.)
Working voltage	110V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz
Operating temp (°C)	-30°C ~ 60°C	-30°C ~ 60°C	-30°C ~ 60°C	-30°C ~ 60°C
Operating humidity	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%
LED lifetime (hours)	100,000	100,000	100,000	100,000
Serviceability	Full front & rear service			
Warranty	2 years standard / 5 years extended			

# SPECIFICATIONS



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MODEL	MERCURY-3.9-VR	MERCURY-6.6-VR	MERCURY-10-VR
Pixel pitch (mm)	3.9	6.6	10
Lamp type	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1
Module size (mm)	500x250	480x320	480x320
Module resolution (px)	128x64	72x48	48x32
Cabinet size (mm)	125x500/750/1000; 125x640/960/1280; 125x640/960/1280		
Weight (Kg/m <sup>2</sup> )	30kg (66.1 lbs)	30kg (66.1 lbs)	30kg (66.1 lbs)
IP rating (front/rear)	IP66	IP68/IP66	IP68/IP66
Refresh rate (Hz)	≥3840	≥3840	≥3840
Brightness (nits)	5000 ~ 6500	6000 ~ 9000	6500 ~ 10000
Brightness uniformity	≥98%	≥98%	≥98%
Viewing angle (H/V) °	H: ≥160° V: ≥90°	H: ≥160° V: ≥90°	H: ≥160° V: ≥90°
Power consumption (w/m <sup>2</sup> )	≤195 (typ.) ≤650(max.)	≤200 (typ.) ≤550 (max.)	≤200 (typ.) ≤550(max.)
Heat dissipation (BTU/hr/m <sup>2</sup> )	≤664 (typ.) ≤2214(max.)	≤681 (typ.) ≤1874 (max.)	≤681 (typ.) ≤1874 (max.)
Working voltage	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz	100V ~ 240V 50~60Hz
Operating temp (°C)	-20°C ~ 65°C	-20°C ~ 65°C	-20°C ~ 65°C
Operating humidity	10% ~ 90%	10% ~ 90%	10% ~ 90%
LED lifetime (hours)	100,000	100,000	100,000
Serviceability	Full front & rear service		
Warranty	2 years standard / 5 years extended		

# SPECIFICATIONS



AURA VISION

MODEL	MERCURY-6.6-PRO	MERCURY-8.3-PRO	MERCURY-10-PRO
Pixel pitch (mm)	6.67	8.33	10
Lamp type	SMD 3-in-1	SMD 3-in-1	SMD 3-in-1
Module size (mm)	400x300	400x300	400x300
Module resolution (px)	60x45	48x36	40x30
Cabinet size (mm)	800x1200x101; 1200x900x101; 1200x1200x101; 1600x900x101; 800x900x101		
Weight (Kg/m <sup>2</sup> )	30kg (66.1 lbs)	30kg (66.1 lbs)	30kg (66.1 lbs)
IP rating (front/rear)	IP66	IP66	IP66
Refresh rate (Hz)	3840	3840	3840
Brightness (nits)	6500 ~ 9500	6500 ~ 10000	6500 ~ 10000
Brightness uniformity	≥98%	≥98%	≥98%
Viewing angle (H/V) °	H: ≥170° V: ≥110°	H: ≥170° V: ≥110°	H: ≥170° V: ≥110°
Power consumption (w/m <sup>2</sup> )	≤250 (typ.) ≤630 (max.)	≤200 (typ.) ≤550 (max.)	≤200 (typ.) ≤550 (max.)
Heat dissipation (BTU/hr/m <sup>2</sup> )	≤851(typ.) ≤2146(max.)	≤684 (typ.) ≤1874 (max.)	≤684 (typ.) ≤1874 (max.)
Working voltage	90V ~ 260V 50~60Hz	90V ~ 260V 50~60Hz	90V ~ 260V 50~60Hz
Operating temp (°C)	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
Operating humidity	10% ~ 90%	10% ~ 90%	10% ~ 90%
LED lifetime (hours)	100,000	100,000	100,000
Serviceability	Full front & rear service		
Warranty	2 years standard / 5 years extended		