

TECHNICAL DATASHEET / INDOOR

MATRIX 500



PRODUCT SPECIFICATION

Pixel pitch (mm)	P2.6	P2.9	P3.9
Model code	MX-I-P260	MX-I-P290	MX-I-P390

DISPLAY PERFORMANCE

Brightness (nits)	1,000	1,000	1,100
Cabinet resolution (px)	192 × 192	168 × 168	128 × 128
Module resolution (px)	96 × 96	84 × 84	64 × 64
Scan mode	1/24	1/28	1/16
Refresh rate	3,840 Hz min.		
Grayscale	16 bit		
Contrast ratio	5,000:1		
Viewing angle	160° horizontal / 160° vertical		

MECHANICAL

Cabinet net weight (kg)	7.3	7.3	7.3
Cabinet size (W × H × D)	500 × 500 × 78 mm (19.69 × 19.69 × 3.07 in)		
Module size (W × H × D)	250 × 250 × 17 mm		
Cabinet material	Die-cast aluminum		
Service access	Front and rear		

ELECTRICAL

Input voltage	100-240 V AC		
Average power (W/m ²)	200	200	220
Maximum power (W/m ²)	640	600	680

ENVIRONMENT

IP rating (front / rear)	IP31 / IP31		
Temperature	-20 to +60°C		
Relative humidity	10%-90%		

WARRANTY & DOCUMENTATION

Warranty	2 years		
Certificates and reports	CE, EMC; TÜV tensile test report		

CONTROL SYSTEM

NovaStar / Colorlight standard. Brompton Tessera uses a separate receiving-card configuration, with separate BOM, quotation and lead time.

TECHNICAL DATASHEET / OUTDOOR

MATRIX 500



PRODUCT SPECIFICATION

Pixel pitch (mm)	P2.9	P3.9	P4.8
Model code	MX-O-P290	MX-O-P390	MX-O-P480

DISPLAY PERFORMANCE

Brightness (nits)	4,500	4,500	4,500
Cabinet resolution (px)	168 × 168	128 × 128	104 × 104
Module resolution (px)	84 × 84	64 × 64	52 × 52
Scan mode	1/21	1/16	1/13
Refresh rate	3,840 Hz min.		
Grayscale	16 bit		
Contrast ratio	5,000:1		
Viewing angle	160° horizontal / 160° vertical		

MECHANICAL

Cabinet net weight (kg)	7.8	7.8	7.7
Cabinet size (W × H × D)	500 × 500 × 78 mm (19.69 × 19.69 × 3.07 in)		
Module size (W × H × D)	250 × 250 × 17 mm		
Cabinet material	Die-cast aluminum		
Service access	Front and rear		

ELECTRICAL

Input voltage	100-240 V AC		
Average power (W/m ²)	200	200	220
Maximum power (W/m ²)	640	600	680

ENVIRONMENT

IP rating (front / rear)	IP65 / IP65		
Temperature	-20 to +60°C		
Relative humidity	10%-90%		

WARRANTY & DOCUMENTATION

Warranty	2 years		
Certificates and reports	CE, EMC; TÜV tensile test report		

HIGH-BRIGHTNESS VERSION

	Brightness (nits)	Scan mode
Outdoor P3.9	6,500	1/8
Outdoor P4.8	6,500	1/8

CONTROL SYSTEM

NovaStar / Colorlight standard. Brompton Tessera uses a separate receiving-card configuration, with separate BOM, quotation and lead time.