

LED Area Flood Lighting

MAHA-PLUS Series

GigaTera[®]
beyond light

MAH1K0

Product Description

- Asymmetric beam enabling cost efficient 1 for 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or wired

Application

- Sporting Facilities
- Airplane Hangars
- Airport Aprons
- Parking Lots
- Harbour / Yard

Certification

- CE
- UL



MAHA-PLUS Series Specifications

Model Name		MAH1K0							
Power Consumption		1000W							
CCT		5700K		5000K		4000K		3000K	
Luminous Flux * (lm)		125,000	135,000	130,000	140,000	120,000	130,000	120,000	130,000
Luminous Efficacy * (lm/W)		125	135	130	140	120	130	120	130
CRI		80Ra	70Ra	80Ra	70Ra	80Ra	70Ra	80Ra	70Ra
LED Driving Current		700 mA							
Light Distribution		Asymmetric Wide							
BUG Rating		B4 – U0 – G5							
Installation Type		Remote driver type / Built-in driver type							
Input Voltage		220 ~ 240 Vac / 200 ~ 277 Vac / 347 ~ 480 Vac							
Input Current		Max. 6.0A (@200 Vac) / Max. 3.4A (@347 Vac)							
Power Factor		≥0.9 at Max load							
Frequency		50 / 60 Hz							
Surge Protection		Line – Line 20kV, Line – FG 20kV							
Driver type		Constant Current (CC)							
Fixture Manufacturer		GigaTera Lighting Inc. / Made in Korea / Made in Vietnam							
Size	Remote	620 x 543 x 275 (mm) / 24.4 x 21.4 x 10.8 (inch)							
	Built-in	620 x 767 x 275 (mm) / 24.4 x 30.2 x 10.8 (inch)							
Weight	Remote	15.2 kg / 33.5 lb							
	Built-in	28.2 kg / 62.2 lb							
Material	Body	Cast Aluminum							
	Optic	AL Coating Reflector							
	Cover	Tempered Glass 4.0T (Clear)							
Wind Load		Front (m²) : 0.15549 / Side (m²) : 0.0674 (LED module only), 0.0987 (with Remote driver)							
IP Rating		IP66							
IK Rating		IK 08							
Operating Temperature		-22°F ~ 131°F / -30°C ~ 55°C							
Option	Control	Wireless (ZigBee) / Wired (RS-485, DMX-512, DALI) / NEMA-7							
	Mounting	Swivel Bracket, Pole Mount Bracket							
Operation Lifetime		> 80,000 hours (L80B10) at Ta 25°C, > 60,000 hours (L80B10) at Ta 40°C							
Warranty		5 Years (12 hours usage per day)							
Finish		Powder Painting (Gray color, RAL 7038)							

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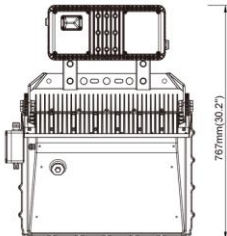
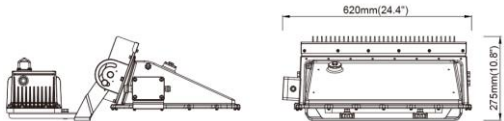

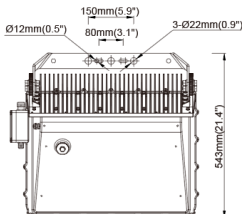
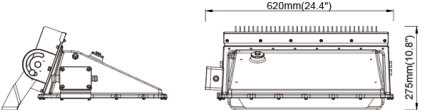
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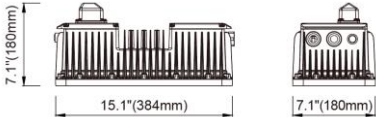

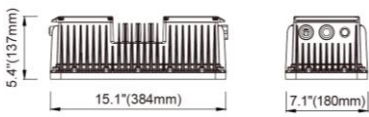

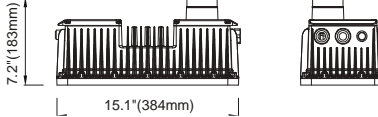
MAH1K0

* Tolerance : ± 10%

Dimension - MAH1K0

Built-in Driver type		Remote Driver type	
  		  	
Size	620 x 767 x 275 (mm)	Size	620 x 543 x 275 (mm)
	24.4 x 30.2 x 10.8 (inch)		24.4 x 21.4 x 10.8 (inch)

Remote Driver Dimension

BLU (Wireless)		BLU (Wired)		BLU (NEMA)	
 		 		 	
Size	384.0 x 180.0 x 180.0 (mm)	Size	384.0 x 180.0 x 137.0 (mm)	Size	384.0 x 180.0 x 183.0 (mm)
	15.1 x 7.1 x 7.1 (inch)		15.1 x 7.1 x 5.4 (inch)		15.1 x 7.1 x 7.2 (inch)
Weight	10.0 kg / 22.0 lb	Weight	10.0 kg / 22.0 lb	Weight	10.0 kg / 22.0 lb

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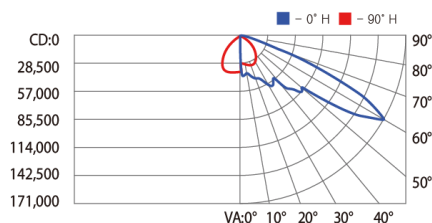
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Photometry Data

MAH1K0 / 5000K / 70Ra



Control System (Optional)

Wireless Control	ZigBee
Input Voltage	15 Vdc
Max. Power Consumption	0.3W (@15 Vdc)
Standard	2.4 GHz – IEEE 802.15.4 (Compatible)
Network	Mesh
RF Tx Power	Max. +8 dBm (Typ. 5 dBm)
Data Rate	250 kbps
Security	128 bit AES Encryption Algorithms
Antenna	Omni Type, 2 dBi

Wired Control	RS-485	DMX-512	DALI
Input Voltage	15 Vdc		
Max. Power Consumption	0.2W (@15 Vdc)		
Communication Method	RS-485	DMX-512	Dali 1
Data Rate	115,200 bps, 8-N-1	250,000 bps, 8-N-2	1200 Baud

NEMA-7

Mechanical	7 Position : 3 Power Contacts + 4 dimming/Signal Contacts
Electrical	Power Contacts. 15A, Max.480Vac/dc
	Dimming Contacts. 0.10A, Max.10Vac/dc
Model Name	TE, 2213362-4(ANSI C136.41-2013 Dimming Receptacle)
	te.com

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Mount Bracket Installation Reference (Optional)

MAH1K0 (Remote driver type)

KMDLMBK010060





	Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
	 Upward 165° / Downward 15°	 Upward 55° / Downward 125°	 Upward 75° / Downward 105°	 Upward 145° / Downward 35°

KMDLMBK010230

	Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
	 Upward 165° / Downward 15°	 Upward 55° / Downward 125°	 Upward 75° / Downward 105°	 Upward 145° / Downward 35°

KETBKTLC1ZNN001

KMDLMBK010020

	KMDLMBK010060 + KETBKTLC1ZNN001		KMDLMBK010060 + KMDLMBK010020
			

MAH1K0 (Built-in driver type)

KETBKTLC3BG1015

KETBKTLC3BG1014

KETBKTLC3BG1015 + KETBKTLC3BG1014 + BLU

		KETBKTLC3BG1015 + KETBKTLC3BG1014	
			

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Ordering Information (MAHA-PLUS Series)					Ordering Code Usage : MAH1K0-V50G1	
MAH	000	-	O	OO	O	
	Power Consumption		Input Voltage	CCT (K)	Fixture Color	
	1K0 = 1000W		V = DC 100V (Remote Driver Type)	57 = 5700K 50 = 5000K 40 = 4000K 30 = 3000K	G1 = Gray Powder	
			X = DC200V (Built-in Driver Type)			

Ordering Information (Driver)			Ordering Code Usage : BLU1K0-HXW		
BLU	000	-	O	O	O
	Power Consumption		Input Voltage	Output Voltage	Control System
	1K0 = 1000W		K = AC200 ~ 240V H = AC200 ~ 277V C = AC347 ~ 480V	X = DC 200V	W = Wired (RS-485) M = Wired (DMX-512) D = Wired (DALI) Z = Wireless (Zigbee) N = NEMA-7