

# LED Area Flood Lighting

## MAHA-PLUS Series

GigaTera<sup>®</sup>  
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

<b>Model Name</b>	MAH1K0							
<b>Power Consumption</b>	1000W							
<b>CCT</b>	5700K		5000K		4000K		3000K	
<b>Luminous Flux * (lm)</b>	125,000	135,000	130,000	140,000	120,000	130,000	120,000	130,000
<b>Luminous Efficacy * (lm/W)</b>	125	135	130	140	120	130	120	130
<b>CRI</b>	80Ra	70Ra	80Ra	70Ra	80Ra	70Ra	80Ra	70Ra
<b>LED Driving Current</b>	700 mA							
<b>Light Distribution</b>	Asymmetric Wide							
<b>BUG Rating</b>	B4 – U0 – G5							
<b>Installation Type</b>	Remote driver type / Built-in driver type							
<b>Input Voltage</b>	220 ~ 240 Vac / 200 ~ 277 Vac / 347 ~ 480 Vac							
<b>Input Current</b>	Max. 6.0A (@200 Vac) / Max. 3.4A (@347 Vac)							
<b>Power Factor</b>	≥0.9 at Max load							
<b>Frequency</b>	50 / 60 Hz							
<b>Surge Protection</b>	Line – Line 20kV, Line – FG 20kV							
<b>Driver type</b>	Constant Current (CC)							
<b>Fixture Manufacturer</b>	GigaTera Lighting Inc. / Made in Korea / Made in Vietnam							
<b>Size</b>	<b>Remote</b>	620 x 543 x 275 (mm) / 24.4 x 21.4 x 10.8 (inch)						
	<b>Built-in</b>	620 x 767 x 275 (mm) / 24.4 x 30.2 x 10.8 (inch)						
<b>Weight</b>	<b>Remote</b>	15.2 kg / 33.5 lb						
	<b>Built-in</b>	28.2 kg / 62.2 lb						
<b>Material</b>	<b>Body</b>	Cast Aluminum						
	<b>Optic</b>	AL Coating Reflector						
	<b>Cover</b>	Tempered Glass 4.0T (Clear)						
<b>Wind Load</b>	<b>Front (m<sup>2</sup>)</b> : 0.15549 / <b>Side (m<sup>2</sup>)</b> : 0.0674 (LED module only), 0.0987 (with Remote driver)							
<b>IP Rating</b>	IP66							
<b>IK Rating</b>	IK 08							
<b>Operating Temperature</b>	-22°F ~ 131°F / -30°C ~ 55°C							
<b>Option</b>	<b>Control</b>	Wireless (ZigBee) / Wired (RS-485, DMX-512, DALI) / NEMA-7						
	<b>Mounting</b>	Swivel Bracket, Pole Mount Bracket						
<b>Operation Lifetime</b>	> 80,000 hours (L80B10) at Ta 25°C, > 60,000 hours (L80B10) at Ta 40°C							
<b>Warranty</b>	5 Years (12 hours usage per day)							
<b>Finish</b>	Powder Painting (Gray color, RAL 7038)							

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MAH1K0

\* Tolerance : ± 10%

### Dimension - MAH1K0

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

### Remote Driver Dimension

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

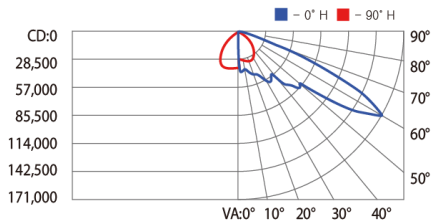
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MAH1K0

### 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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MAH1K0






### 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°

##### KETBKTL1ZNN001

##### KMDLMBK010020

	KMDLMBK010060 + KETBKTL1ZNN001			KMDLMBK010060 + KMDLMBK010020	
					

#### MAH1K0 (Built-in driver type)

##### KETBKTL3BG1015

##### KETBKTL3BG1014

##### KETBKTL3BG1015 + KETBKTL3BG1014 + BLU

			
	KETBKTL3BG1015 + KETBKTL3BG1014 		

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MAH1K0

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		<b>V = DC 100V</b> (Remote Driver Type)	57 = 5700K 50 = 5000K 40 = 4000K 30 = 3000K	<b>G1 = Gray Powder</b>
			<b>X = DC200V</b> (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		<b>K = AC200 ~ 240V</b> <b>H = AC200 ~ 277V</b> <b>C = AC347 ~ 480V</b>	<b>X = DC 200V</b>	<b>W = Wired (RS-485)</b> <b>M = Wired (DMX-512)</b> <b>D = Wired (DALI)</b> <b>Z = Wireless (Zigbee)</b> <b>N = NEMA-7</b>