

# LED Area Flood Lighting

## MAHA-PLUS Series



MAH800 / MAH600 / MAH500 / MAH400 / MAH250 / MAH200 / MAH150

### Product Description

- Unrivaled efficacy 150 lm/W
- 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 Receptacle

### Application

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

### Certification

- UL
- FCC
- KC
- CB / CE
- DLC



### MAHA-PLUS Series (Built-in Driver type) Specifications

Model Name	MAH800	MAH600	MAH500	MAH400	MAH250	MAH200	MAH150
Power Consumption	800W	600W	500W	400W	250W	200W	150W
CCT	5000K (5700K / 4000K / 3000K available)						
Luminous Flux *	96,000 lm	90,000 lm	75,000 lm	60,000 lm	37,500 lm	30,000 lm	21,750 lm
Luminous Efficacy *	120 lm/W	150 lm/W					145 lm/W
CRI	70 Ra	80 Ra					
LED Driving Current	800 mA	108 mA	104 mA	95 mA	96 mA	77 mA	71.4 mA
Light Distribution	Asymmetric Wide						
BUG Rating	B3 - U2 - G4				B1 - U3 - G3		
Input Voltage	220 ~ 240 Vac 200 ~ 277 Vac 347 ~ 480 Vac		220 ~ 240 Vac 200 ~ 277 Vac	100 ~ 240 Vac 120 ~ 277 Vac 347 ~ 480 Vac	220 ~ 240 Vac 200 ~ 277 Vac 347 ~ 480 Vac	100 ~ 240 Vac 120 ~ 277 Vac 347 ~ 480 Vac	100 ~ 240 Vac 100 ~ 277 Vac
Input Current	Max. 5.0A (@200 Vac) Max. 2.9A (@347 Vac)	Max. 3.5A (@200Vac) Max. 2.2A (@347Vac)	Max. 3.0A (@200Vac)	Max. 5.0A (@100Vac) Max. 1.5A (@347Vac)	Max. 1.5A (@200Vac) Max. 1.0A (@347Vac)	Max. 2.5A (@100Vac) Max. 0.75A (@347Vac)	Max.2.0A (@100Vac)
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 Inc. / Made in Korea / Made in Vietnam						
Size	mm	620 x 767 x 275	577 x 543 x 280	475 x 525 x 196	347 x 412 x 242		
	inch	24.4 x 30.2 x 10.8	22.7 x 21.4 x 11.0	18.7 x 20.7 x 7.7	13.7 x 16.2 x 9.5		
Weight	25.2 kg / 56.2 lb		20.0 kg / 44.0 lb	15.0 kg / 33.1 lb	7.5 kg / 16.6 lb		
Material	Body	Cast Aluminum					
	Optic	AL Coating Reflector					
	Cover	Tempered Glass 4.0T (Clear)					
Finish	Powder Coating						
IP Rating	IP66						
Effective Projected Area	Front (ft <sup>2</sup> / m <sup>2</sup> )	-	1,377 / 0.120	0.763 / 0.071	0.491 / 0.046		
	Side (ft <sup>2</sup> / m <sup>2</sup> )	-	0.980 / 0.091	0.684 / 0.064	0.475 / 0.044		
Operating Temperature	-22°F ~ 131°F / -30°C ~ 55°C						-22°F~140°F -30°C~60°C
Option	Control	Wireless (ZigBee) / NEMA-7(Except MAH800)					
	Mounting	Swivel Bracket, Pole Mount Bracket					
Operation Life Time	> 60,000 hours (L80B10) at upto Ta 40 °C						
Warranty	5 Years (12 hours usage per day)						

\* Tolerance : ± 5%

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MAH800 / MAH600 / MAH500 / MAH400 / MAH250 / MAH200 / MAH150

### MAHA-PLUS Series (Remote Driver type) Specifications

Model Name	MAH800	MAH500	MAH400
Power Consumption	800W	500W	400W
CCT	5000K (5700K / 4000K / 3000K available)		
Luminous Flux *	96,000 lm	75,000 lm	60,000 lm
Luminous Efficacy *	120 lm/W	150 lm/W	
CRI	70 Ra	80 Ra	
LED Driving Current	800 mA	100 mA	
Light Distribution	Asymmetric Wide		
BUG Rating	B3 - U2 - G4		
Input Voltage	DC200V (through BLU)	DC100V (through RED)	
Fixture Manufacturer	GigaTera Inc. / Made in Korea / Made in Vietnam		
Size	mm	620 x 543 x 275	475 x 525 x 196
	inch	24.4 x 21.4 x 10.8	18.7 x 20.7 x 7.7
Weight		15.2 kg / 33.5 lb	11.3 kg / 24.9 lb
Material	Body	Cast Aluminum	
	Optic	AL Coating Reflector	
	Cover	Tempered Glass 4.0T (Clear)	
Finish	Powder Coating		
IP Rating	IP66		
Operating Temperature	-22°F ~ 131°F / -30°C ~ 55°C	-22°F ~ 127°F / -30°C ~ 53°C	
Option	Mounting	Swivel Bracket, Pole Mount Bracket	
Operation Life Time	> 60,000 hours (L80B10) at upto Ta 40 °C		
Warranty	5 Years (12 hours usage per day)		

\* Tolerance : ± 5%

### Remote Driver Specifications

Model Name	BLU1K0	RED600	
Power Consumption	800W	500W	400W
Compatible Model	MAH800	MAH500	MAH400
Input Voltage	220 ~ 240 Vac / 200 ~ 277 Vac 347 ~ 480 Vac	200 ~ 277 Vac 347 ~ 480 Vac	
Output Voltage	DC200V	DC100V	
Input Current	Max. 5.0A (@200 Vac)	Max. 3.0A (@200Vac)	Max. 2.5A (@200Vac)
	Max. 2.9A (@347 Vac)	Max. 1.7A (@347Vac)	Max. 1.4A (@347Vac)
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 Inc. / Made in Korea / Made in Vietnam		
Weight	10.0 kg / 22.0 lb	13.0 kg / 28.7 lb (Include IP Box : 20 kg / 44.1 lb)	
IP Rating	IP66	IP66 (When IP box applied)	
Operating Temperature	-22°F ~ 113°F / -30°C ~ 45°C	-22°F ~ 119.3°F / -30°C ~ 48.5°C (Except 347~480Vac)	
Option	Control	Wired (RS-485, DMX-512), Wireless (Zigbee)	Wired (RS-485, DMX-512)
Warranty	5 Years (12 hours usage per day)		

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MAH800	
Built-in Driver type	Remote Driver type
<p><b>Size</b></p> <p>620 x 767 x 275 (mm) 24.4 x 30.2 x 10.8 (inch)</p>	<p><b>Size</b></p> <p>620 x 543 x 275 (mm) 24.4 x 21.4 x 10.8 (inch)</p>

MAH600	MAH500 / MAH400	MAH200 / MAH250 / MAH150
<p><b>Size</b></p> <p>577 x 543 x 280 (mm) 22.7 x 21.4 x 11.0 (inch)</p>	<p><b>Size</b></p> <p>475 x 525 x 196 (mm) 18.7 x 20.7 x 7.7 (inch)</p>	<p><b>Size</b></p> <p>347 x 412 x 242 (mm) 13.7 x 16.2 x 9.5 (inch)</p>

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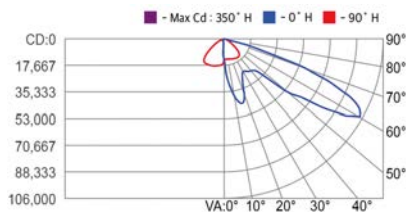
### Remote Driver Dimension

RED (Wired)		RED IP66 BOX (Optional)	
<b>Size</b>	470.0 x 151.2 x 181.7 (mm) 18.5 x 6.0 x 7.2 (inch)	<b>Size</b>	587.0 x 246.0 x 245.0 (mm) 23.1 x 9.7 x 9.6 (inch)

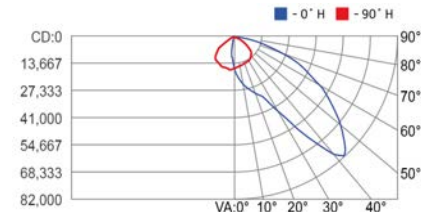
BLU (Wireless)		BLU (Wired)	
<b>Size</b>	384.0 x 180.0 x 180.0 (mm) 15.1 x 7.1 x 7.1 (inch)	<b>Size</b>	384.0 x 180.0 x 137.0 (mm) 15.1 x 7.1 x 5.4 (inch)

### Photometry Data

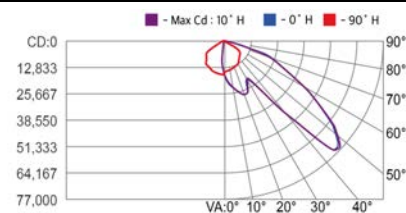
MAH800 / 5000K



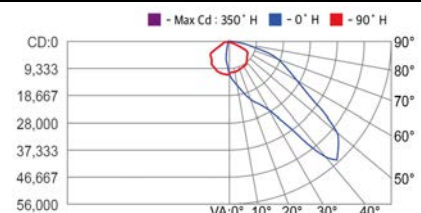
MAH600 / 5000K



MAH500 / 5000K



MAH400 / 5000K



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<p><b>MAH250 / 5000K</b></p>	<p><b>MAH200 / 5000K</b></p>
<p><b>MAH150 / 5000K</b></p>	

### Control System (Optional)

<b>Wireless Control</b>		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		
<b>Wired Control</b>		RS-485	DMX-512
Input Voltage	15 Vdc		
Max. Power Consumption	0.2W (@15 Vdc)		
Communication Method	RS-485	DMX-512	
Data Rate	115,200 bps, 8-N-1	250,000 bps, 8-N-2	
<b>NEMA-7</b>			
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)

#### MAH800 / MAH600

##### 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	
				



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MAH800 / MAH600 / MAH500 / MAH400 / MAH250 / MAH200 / MAH150

### MAH500 / MAH400

#### KMDLMBK010320





	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°

#### KMDLMBK010250

	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

	KMDLMBK010320 + KETBKTL1ZNN001		KMDLMBK010020
			

### MAH250 / MAH200

#### KETBKTL13G1008

#### KETBKTL1ZNN001

	Surface Mount Bracket		KETBKTL13G1008+ KETBKTL1ZNN001
	 Upward 90° / Downward 15°		

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Ordering Information (MAHA-PLUS Series)			Ordering Code Usage : MAH400-V50WGP				
MAH	OOO		O	OO	O	O	O
	Power Consumption		Input Voltage	CCT (K)	Control System	Fixture Color	Version
	800 = 800W		C = 347 ~ 480V D = 220 ~ 240V H = 200 ~ 277V	57 = 5700K 50 = 5000K 40 = 4000K 30 = 3000K	Z = Wireless(Zigbee) W = Wired(RS-485) M = Wired(DMX-512)	G = Gray Powder	P = Plus
		X = DC200V (Remote Driver Type)					
	500 = 500W 400 = 400W		B = 100 ~ 240V C = 347 ~ 480V E = 120 ~ 277V H = 200 ~ 277V		Z = Wireless(Zigbee) G = NEMA-7 N = None		
		V = DC100V (Remote Driver Type)					
	600 = 600W 250 = 250W		C = 347 ~ 480V D = 220 ~ 240V H = 200 ~ 277V		Z = Wireless(Zigbee) G = NEMA-7 N = None		
200 = 200W		B = 100 ~ 240V C = 347 ~ 480V E = 120 ~ 277V					
150 = 150W		A = 100 ~ 277V B = 100 ~ 240V		Z = Wireless(Zigbee) G = NEMA-7			

Ordering Information			Ordering Code Usage : RED1K2-HVW		
RED	OOO		O	O	O
	Power Consumption		Input Voltage	Output Voltage	Control System
	1K2 = 1,200W 1K0 = 1,000W 600 = 600W		C = AC 347 ~ 480V H = AC 200 ~ 277V K = AC 200 ~ 240V	V = DC 100V	W = Wired(RS-485) N = None

Ordering Information			Ordering Code Usage : BLU1K0-HXW		
BLU	OOO		O	O	O
	Power Consumption		Input Voltage	Output Voltage	Control System
	1K0 = 800W		K = AC200 ~ 240V H = AC200 ~ 277V C = AC347 ~ 480V	X = DC 200V	W = Wired(RS-485) M = Wired(DMX-512) Z = Wireless(Zigbee)

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