

LED Area Flood Lighting

MAHA-PLUS Series

MAH1000 / 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	MAH1000	MAH600	MAH500	MAH400	MAH250	MAH200	MAH150	
Power Consumption	1000W	600W	500W	400W	250W	200W	150W	
CCT	5000K (5700K / 4000K / 3000K available)							
Luminous Flux *	135,000 lm	90,000 lm	75,000 lm	60,000 lm	37,500 lm	30,000 lm	21,750 lm	
Luminous Efficacy *	135 lm/W	150 lm/W					145 lm/W	
CRI	70 Ra	80 Ra						
LED Driving Current	700 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. 6.0A (@200 Vac) Max. 3.4A (@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 ² / m ²)	-	1,377 / 0.120	0.763 / 0.071		0.491 / 0.046		
	Side (ft ² / m ²)	-	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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MAHA-PLUS Series (Remote Driver type) Specifications

Model Name	MAH1000	MAH500	MAH400
Power Consumption	1000W	500W	400W
CCT	5000K (5700K / 4000K / 3000K available)		
Luminous Flux *	135,000 lm	75,000 lm	60,000 lm
Luminous Efficacy *	135 lm/W	150 lm/W	
CRI	70 Ra	80 Ra	
LED Driving Current	700 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	1000W	500W	400W
Compatible Model	MAH1000	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. 6.0A (@200 Vac)	Max. 3.0A (@200Vac)	Max. 2.5A (@200Vac)
	Max. 3.4A (@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)		

* Tolerance : ± 5%





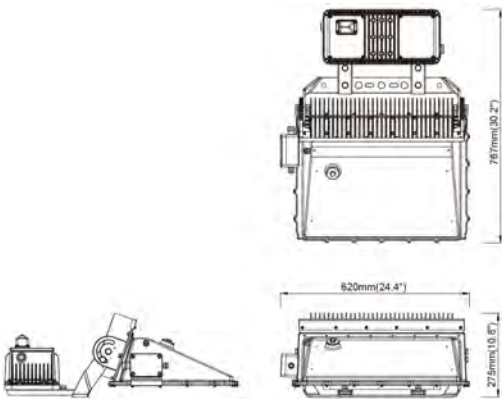
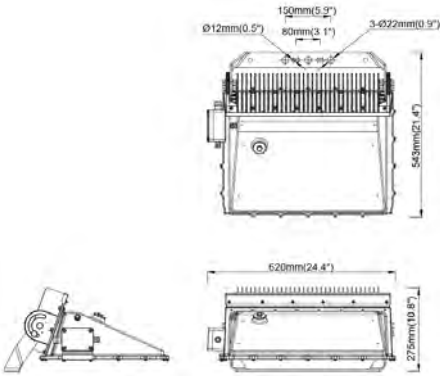
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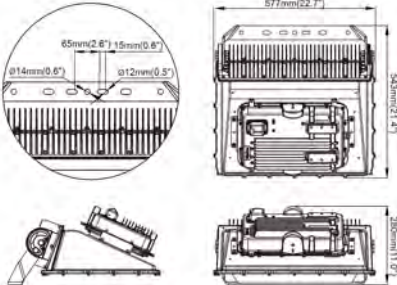
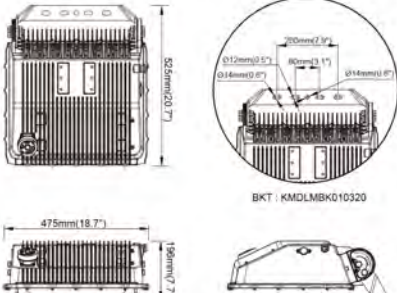
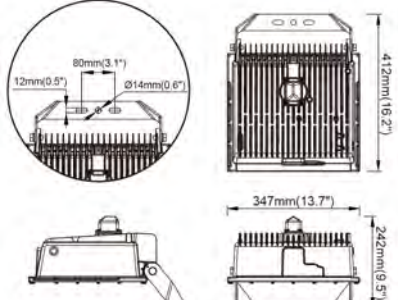
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MAH1000			
Built-in Driver type		Remote Driver type	
			
			
Size	620 x 767 x 275 (mm) 24.4 x 30.2 x 10.8 (inch)	Size	620 x 543 x 275 (mm) 24.4 x 21.4 x 10.8 (inch)

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

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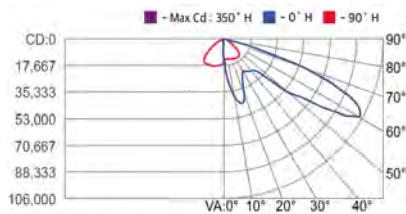
Remote Driver Dimension

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

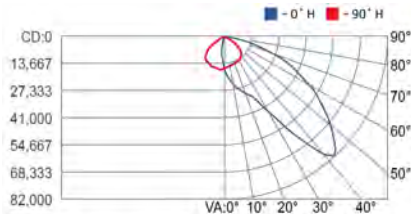
BLU (Wireless)		BLU (Wired)	
Size	384.0 x 180.0 x 180.0 (mm) 15.1 x 7.1 x 7.1 (inch)	Size	384.0 x 180.0 x 137.0 (mm) 15.1 x 7.1 x 5.4 (inch)

Photometry Data

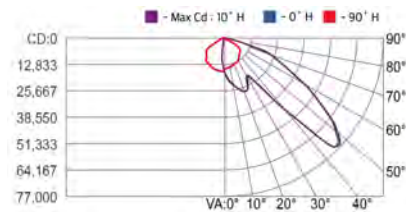
MAH1000 / 5000K



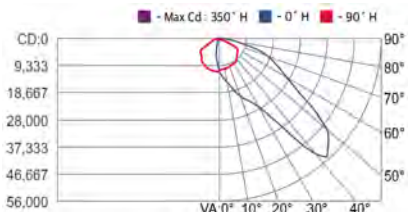
MAH600 / 5000K



MAH500 / 5000K



MAH400 / 5000K



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

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
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
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)

MAH1000 / 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	
					

MAH1000 (Built-in driver type)

KETBKTL3BG1015

KETBKTL3BG1014

KETBKTL3BG1015 + KETBKTL3BG1014 + BLU

		KETBKTL3BG1015 + KETBKTL3BG1014	
			



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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



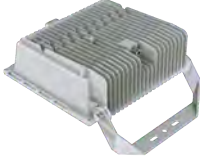

KMDLMBK010020

	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	000	-	O	OO	O	O	O
	Power Consumption		Input Voltage	CCT (K)	Control System	Fixture Color	Version
	1000 = 1000W		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)	W = Wired(RS-485) M = Wired(DMX-512)			
	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	000	-	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	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) Z = Wireless(Zigbee)

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