

M20A.S&T

Modular Floodlight



- 1000W -

Ongoing



SPECIFICATION

Product: M20A.S&T Modular Floodlight

Part No.: M20A1000S, M20A1000T



S series

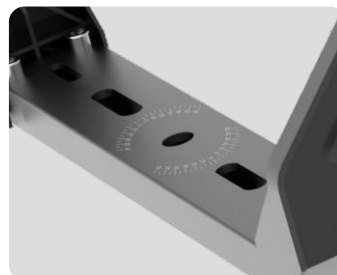
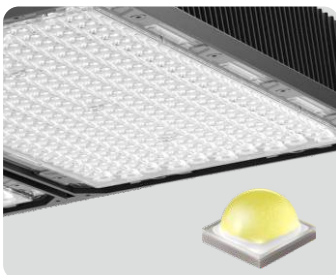


T series

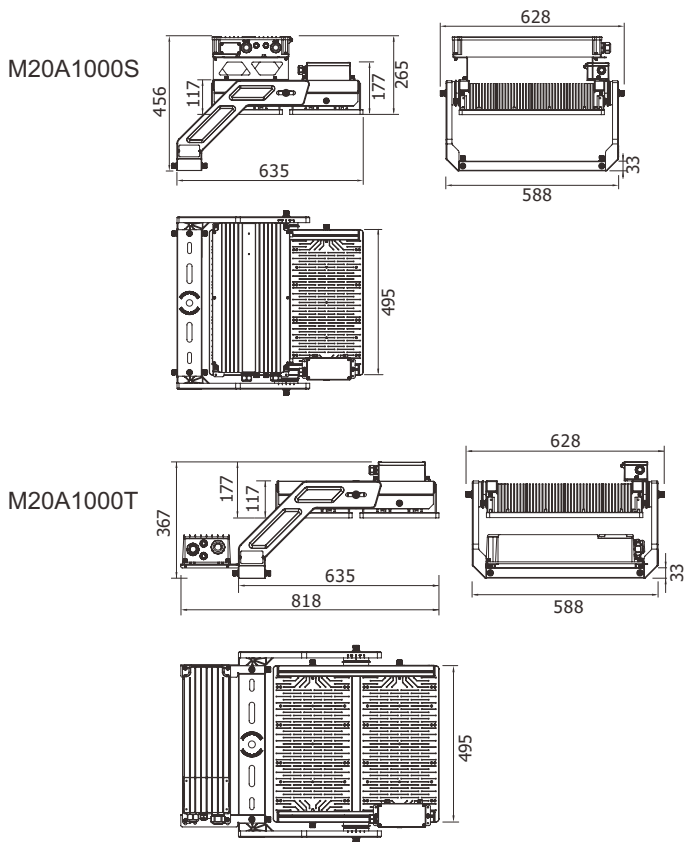
1. Main features

- Cold forging pure aluminum with high thermal conductivity.
- Die-casting aluminum bracket for less weight.
- 3535 ceramic LED with low thermal resistance to enable very high reliability and long lifetime.
- 140-150lm/W based on sharp spill light control.
- Professional optical design, lens can be interchanged.
- Beam angle: 12°/30°/60° symmetric; 40°x15°/60°x15°/100°x17°/100°x60°/130°x25° asymmetric.
- 20KV surge protection.
- Driver box flexible for remote (only one 3-core cable).
- Inrush current limiter integrated.
- Thermal control unit integrated to protect LED module.
- G2.0 driver control board, minimize driver failure rate.
- Dali-2, 0/10V, DMX dimmable available.
- Angle fine tuning attainable precision 0.5°.

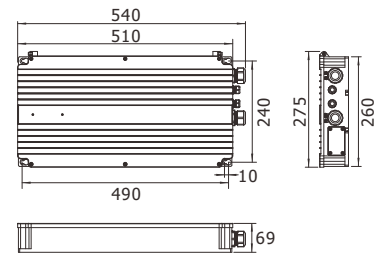
2. Product details



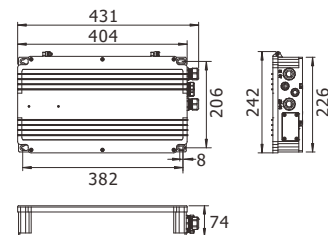
3. Dimensions (Unit: mm)



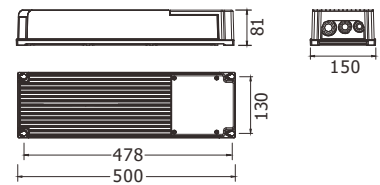
Control Gear (Driver Box)



Matrix-340-1000W



Mono-340-1000W-S/H



S6-1K2D500 / S6-1K2R500

4. Technical data

Model No.	M20A1000S	M20A1000T
Light Source	SMD 3535	SMD 3535
Control Gear	Matrix/Mono-S/Mono-H	S6-1K2D500/S6-1K2R500
Input Voltage Range *	100-305Vac; 249-528Vac; 180-528Vac 50/60Hz	198-457Vac 50/60Hz
LED Power(W)	909-972	909-972
System Power(W)	963-1013	963-1013
Luminous Flux(lm)	139,800-144,800	139,800-144,800
Power Factor	>0.95	>0.95
CCT (K)	3000/4000/5700	3000/4000/5700
CRI	>70 / >80	>70 / >80
Beam Angle	12°/30°/60° symmetric; 40°x15°/60°x15° /100°x17°/100°x60°/130°x25° asymmetric	12°/30°/60° symmetric; 40°x15°/60°x15° /100°x17°/100°x60°/130°x25° asymmetric
THD (230VAC)	<20%	<20%
Surge Protection	20KV	10KV
Dimmable	0/10V; Dali-2; DMX	Dali-2; DMX
Housing Color	Black / Gray	Black / Gray
IP Class	IP66	IP66
Working Temperature(°C)	-20 to +50	-20 to +50
Working Humidity(RH%)	10-90	10-90
Power Cable	1m H07RN-F 3x1.5	1m H07RN-F 3x1.5
Outer Carton(CM)	85.5*73*36(1pcs/CTN)	

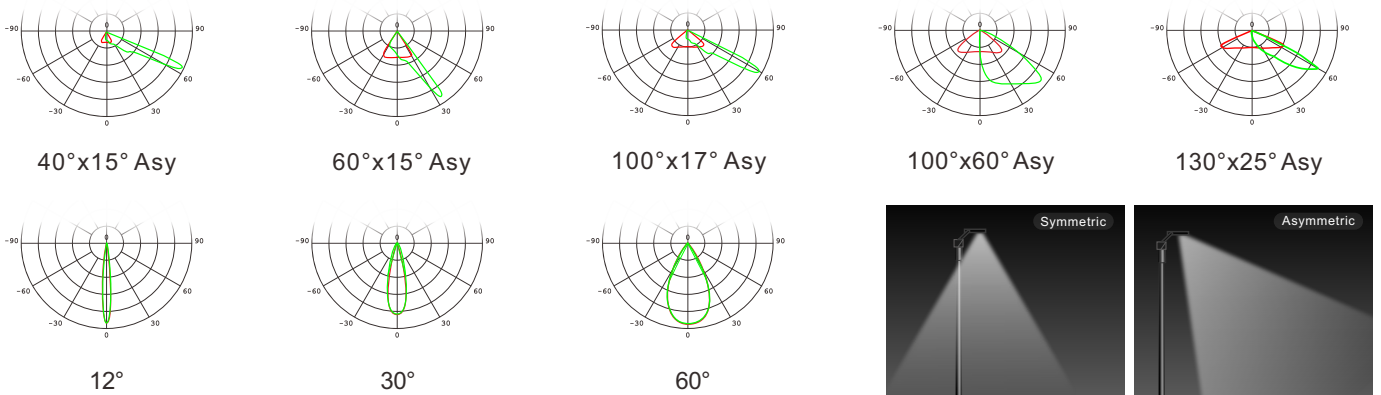
* Certified voltage range: Matrix/ Mono-S(100-240Vac); Mono-H(277-480Vac); S6-1K2R500/ S6-1K2R500 (220-415Vac)

5. Net weight

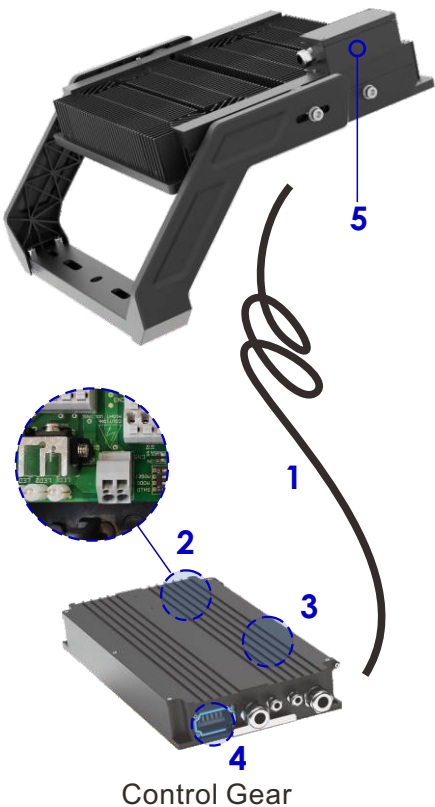
Model No.	Luminaire	Control Gear					
		Matrix(0/10V)	Mono-S(0/10V)	Mono-H(0/10V)	Matrix(Dali)	Mono-H(Dali)	S6-1K2D500 S6-1K2R500(Dali/Dali)
M20A1000S	15.8 Kg	6.2 Kg	6.8 Kg	7.4 Kg	7.2 Kg	7.2 Kg	
M20A1000T	15.8 Kg						6.2 Kg

6. Luminous intensity distribution diagram

For the IES file, please contact us by E-mail.



7. Innovations

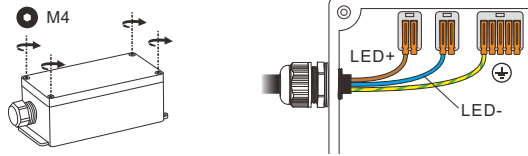


- 1 Only one 3-core cable go up to the luminaire (M20A.S Series)**
Cost-saving, easy connect
- 2 Super high reliability:**
Multiple isolated drivers inside with the second generation driver control board.
- 3 20KV surge protection**
- 4 Transparent PC window for monitors/Bluetooth signals**
- 5 Thermal Control Unit**
To protect LEDs from extreme condition

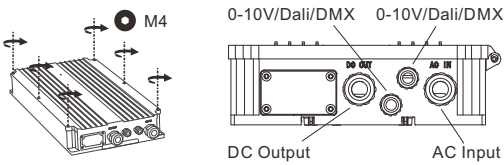
8. Wiring of separated control gear solution



(1) Connection of luminaire

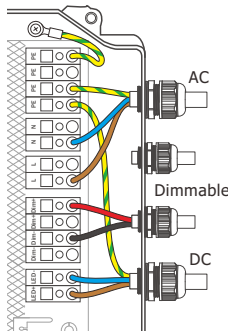


Cable gland of Matrix & Mono

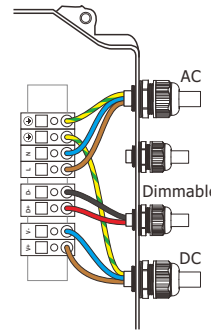


Connection	Cable Gland	Toque (N*m)	Cable Diameter (mm)	Cable Section (mm ²)
AC Input	M20	5.5	8-10/10-12	1.5/2.5
DC Output	M20	5.5	8-10/10-12	1.5/2.5
Dimmable	M16	2.5	7-10	1.0-1.5

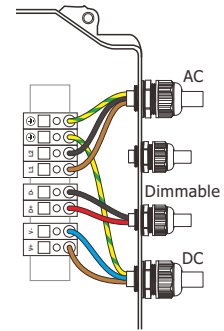
(2) Matrix (0-10V / Dali)



(3) Mono-S (0-10V / Dali)



(4) Mono-H (0-10V / Dali)



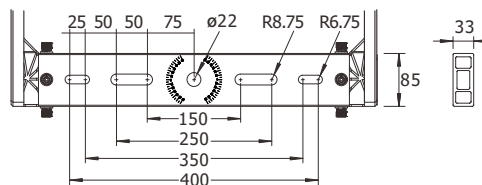
! **Note:** According to the actual needs, the number of connectors will increase or decrease.
Different dimming function cannot be used at the same time.

9. Installation

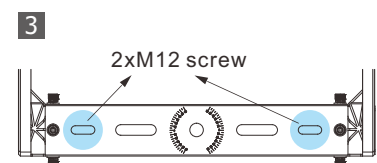
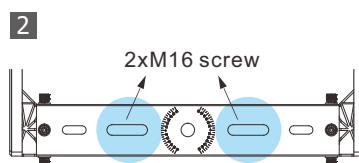
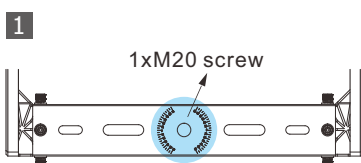


- For details, please refer to Installation Instruction.
- Installation must be performed by qualified person.
- Disconnect before installation.
- Installation tools are not provided.

Mounting bracket

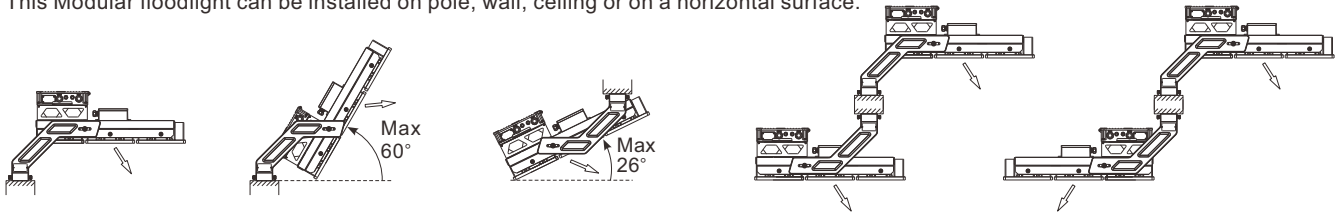


Selection of mounting holes



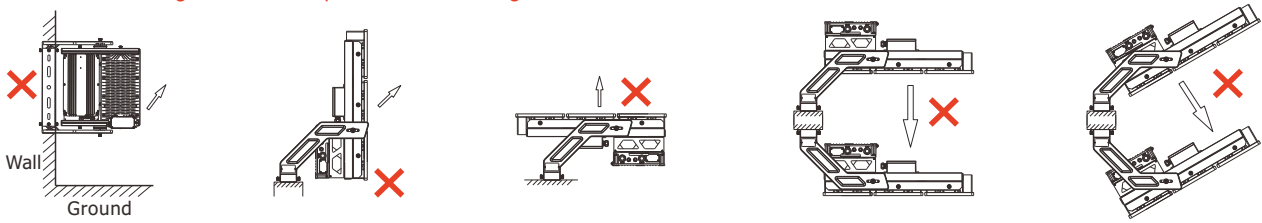
Position allowed

This Modular floodlight can be installed on pole, wall, ceiling or on a horizontal surface.



Position not allowed

Note: Considering the heat dissipation, load bearing and dust accumulation, some installation methods are not allowed.



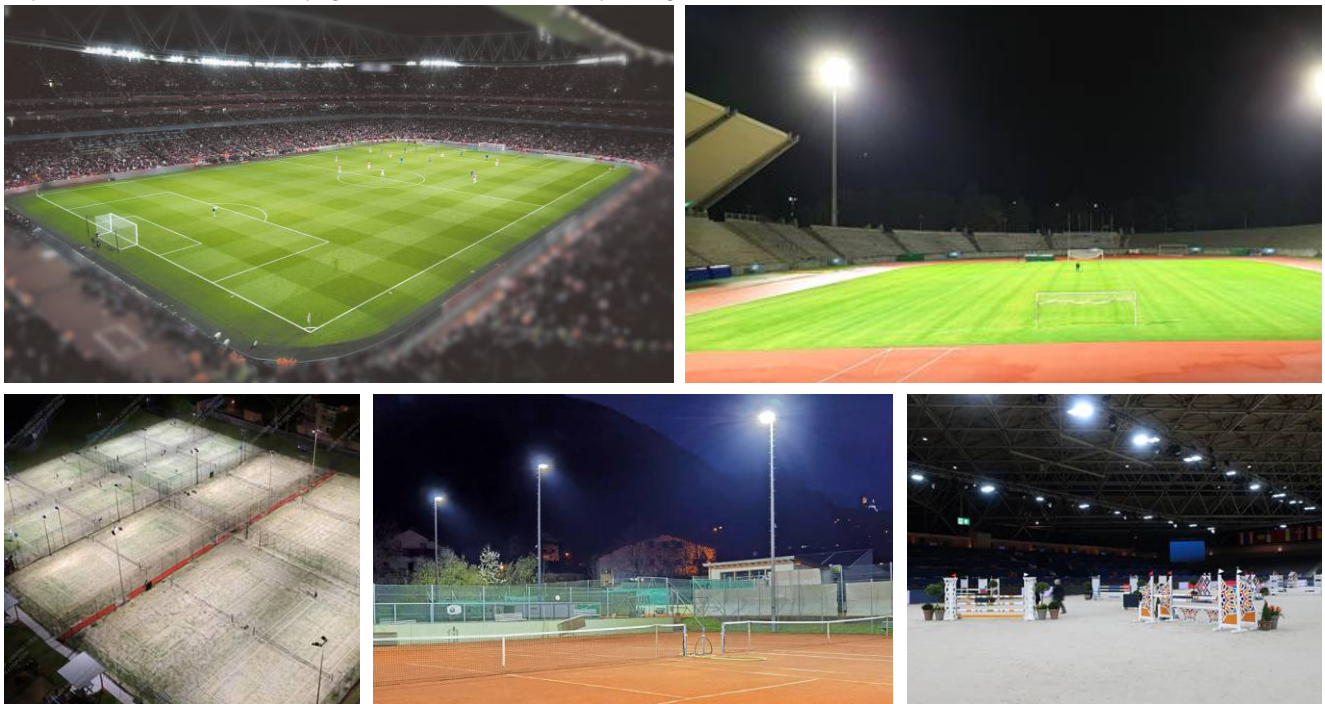
10. Effective Projected Area (EPA=SCx)

Unit: m²

Power \ Tilt angle	0°	10°	20°	30°	45°	60°
1000W	0.08	0.09	0.10	0.13	0.15	0.18

11. Application

Suitable for football stadiums, tennis courts, stadiums and other large sports venues, high mast, harbor, airport, warehouse, workshop, gas stations, toll stations, parking area, etc.



Revision History

Version	Change Date	Description of change
1.3	14-Aug-23	The installation drawing has been modified.
1.4	23-Aug-23	According to the IES test data, the power and luminous flux are modified.
1.5	4-Sept-23	The dimension of Matrix was modified; Added driver separation solution and EPA information.
2.0	13-Sept-23	The information of separated control gear solution was modified.
2.1	19-Sept-23	Added the text: 3535 ceramic LED, and added the picture of the LED
3.0	1-Nov-23	Updated the dimension of products; Deleted the beam angle: 90°x15°; Added the beam angle: 130°x25°
3.1	14-Nov-23	The FCC certification icon was removed, and the light distribution diagram of 130°x25° was modified.
3.2	20-Nov-23	The wiring diagram of Mono has been modified