M20A.S&T Modular Floodlight



- 1500W -

Ongoing



















SPECIFICATION

Product: M20 Modular Floodlight

Part No.: M20A1500S, M20A1500T

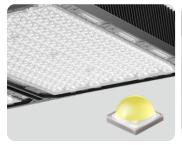


S series T series

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° asy.
- ➤ 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

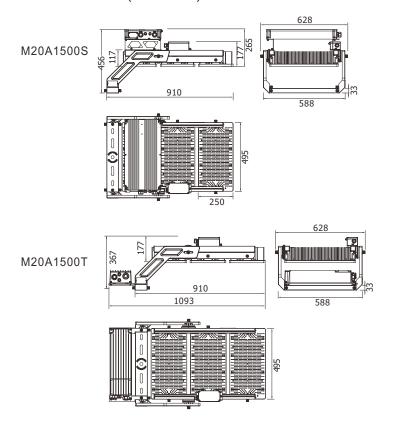




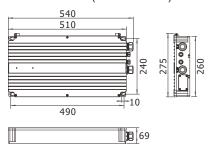




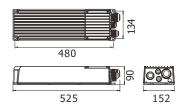
3. Dimensions (Unit: mm)



Control Gear (Driver Box)



Matrix-340-1500W Mono-340-1500W-S/H



NES-1K8T210BC

4. Technical data

Model No.	M20A1500S	M20A1500T		
Light Source	SMD 3535	SMD 3535		
Control Gear	Matrix / Mono-S / Mono-H	NES-1K8T210BC		
Input Voltage Range *	100-305Vac / 249-528Vac 50/60Hz	198-457Vac 50/60Hz		
LED Power (W)	1351-1449	1351-1449		
System Power(W)	1437-1536	1437-1536		
Luminous Flux(Im)	212,200-231,000	212,200-231,000		
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)			

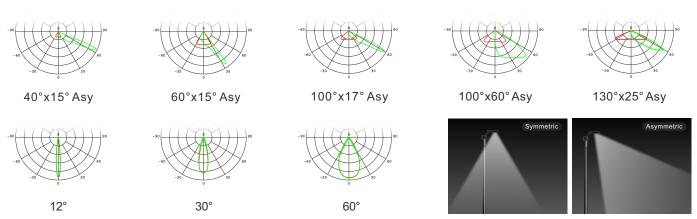
^{*} Certified voltage range: Matrix / Mono-S(100-240Vac); Mono-H(277-480); NES-1K8T210BC(220-415VacC)

5. Net weight

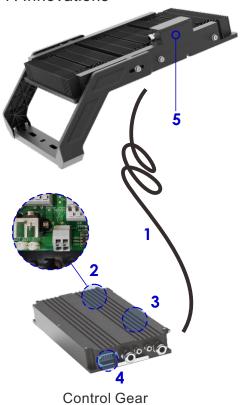
	Luminaire	Control Gear				
Model No.		Matrix(0/10V)	Matrix(Dali)	Mono-S(0/10V; DMX)	Mono-H(0/10V; DMX)	NES-1K8T210BC
M20A1500S	23.8 Kg	7.9 Kg	9.3 Kg	7.2 Kg	7.1 Kg	
M20A1500T	23.8 Kg					7.0 Kg

6. Luminous intensity distribution diagram

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



7. Innovations



Only one 3-core cable go up to the luminaire. (M20A.S Series)

Remote distance for 1500 Watt:

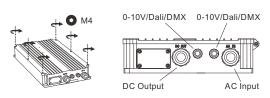
3-core 2.5 mm²: 200m maximum 3-core 2 mm²: 100m maximum 3-core 1.5 mm²: 80m maximum

- Super high reliability:
 Multiple isolated drivers inside
 with the second generatiaon
 driver control board.
- 20KV surge protection
- Transparent PC window for monitors/Bluetooth signals
- Thermal Control Unit
 To protect LEDs from extreme condition

8. Wiring of separated control gear solution



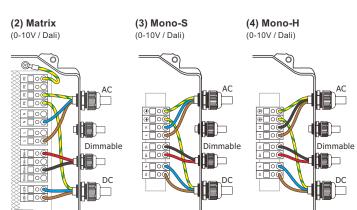
Cable gland of Matrix & Mono



Connection	Cable Gland	Toque (N*m)	Cable Diameter (mm)	Cable Section (mm²)
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

(1) Connection of luminaire





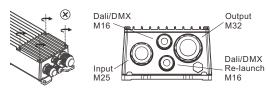


Note: According to the actual needs, the number of connectors will increase or decrease.

Different dimming function cannot be used at the same time.



Cable Gland of NES-1K8T210BC

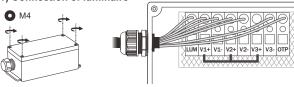


Connection	Cable Gland	Toque (N*m)	Cable Diameter (mm)	Cable Section (mm²)
AC Input	M25	5.5	13-18	1.5-2.5
DC Output	M32	7.5	15-21	1.5-2.5
Dali/DMX	M16	2.5	5-10	0.75-2.5
Dali/DMX Re-launch	M16	2.5	5-10	0.75-2.5

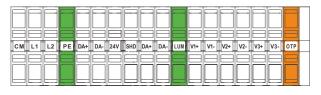
Label Description

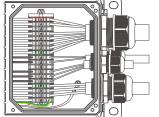
СМ	Surge protection connection	LUM	Protection Earth for LED Module
L1/L	AC input L1/Live	V1+/LED+	LED1+ Connection
L2/N	AC input L2/Null	V1-/LED-	LED1- Connection
PE	Protection Earth	V2+	LED2+ Connection
DA+/Dim+	Reused, DALI/DMX input+	V2-	LED2- Connection
DA-/Dim-	Reused,DALI/DMX input-	V3+	LED3+ Connection
24V	24V auxiliary source	V3-	LED3- Connection
SHD	DMX SHIELD	V+	LED+ Connection
DA+	DALI/DMX reused Re-launch output+	OTP	Thermal protection input
DA-	DALI/DMX reused Re-launch output-		

(1) Connection of luminaire

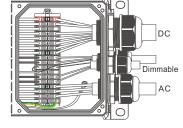


(2) Connection of NES-1K8T210BC





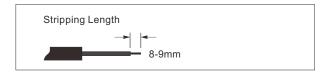




A typical configuration when using DMX-RDM



Note: DALI function and DMX function cannot be used at the same time.

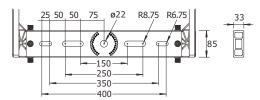


9. Installation

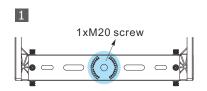


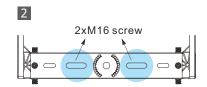
- For details, please refer to Installation Instruction.
- Installation must be performed by qualified person.
- · Disconnect before installation.
- Installation tools are not provided.

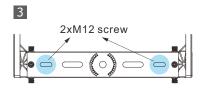
Mounting bracket



Selection of mounting holes



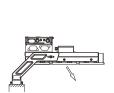




Position allowed

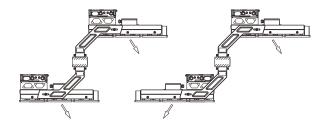


This Modular floodlight can be installed on pole, wall, ceiling or on a horizontal surface.





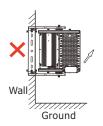




Position not allowed

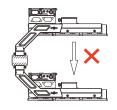


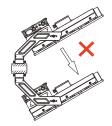
Note: Considering the heat dissipation, load bearing and dust accumulation, some installation methods are not allowed.









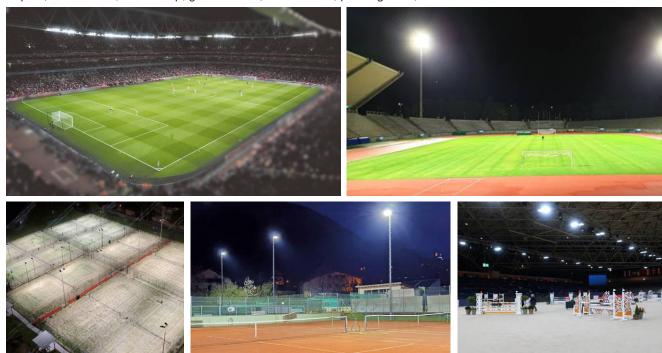


10. Effective Projected Area (EPA=SCx)

Unit: m²						
Power Tilt angle	0 °	10°	20°	30°	45°	60°
1500W	0.08	0.09	0.11	0.14	0.17	0.19

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	28-Aug-23	M20A1500S added the option of Mono-S/H.
1.6	4-Sept-23	According to the IES test data, the power and luminous flux are modified; 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	21-Nov-23	The wiring diagram of Mono has been modified