

HFL21

HFL21 is an optically independent modular floodlight featuring exceptional optical performance. Each module delivers up to 600W of power with a maximum luminous efficacy of 170 lm/W, offering multiple flexible adjustable beam angles for precise and rapid illumination of venues. Having passed rigorous testing including 1500 hours of high salt spray exposure and high-temperature endurance, HFL21 floodlights deliver outstanding performance engineered specifically for sporting events.



RoHS

High Efficiency & Low Cost

The HFL21 flood sports light is a high-power module designed for stadiums. Thanks to its high-power LED chips, it can provide up to 600W of power with a single module and has a maximum luminous efficacy of 170 lm/W. The HFL21 is lightweight in design, making it lighter than other stadium lights with similar power on the market. This lightweight design not only simplifies installation and maintenance but also ensures high performance.



1500W/ 1800W



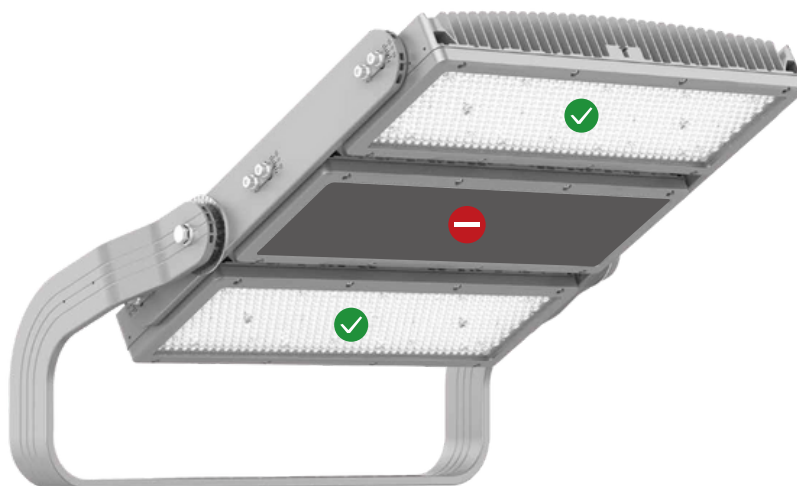
1000W/ 1200W



500W/ 600W

Light Weight Saves Maintenance Costs

Weighing only 22kg, the 1800W HFL21 is 15-30% lighter than the industry's moving lights with the same power output. HV's engineers took into account the economics and efficiency of luminaire installation and maintenance, and developed an innovative, ergonomic structure that is lightweight and can be moved quickly, reducing setup and teardown time, and improving worker comfort and safety.

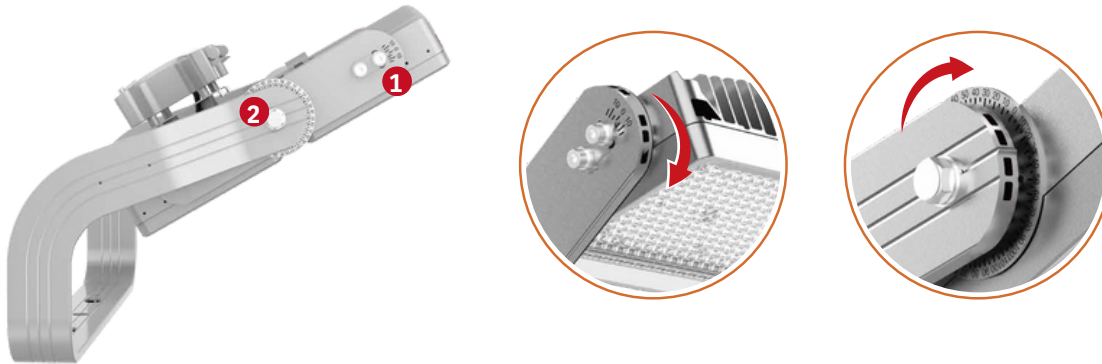


Modular Design for Independent Operation

The HFL21 floodlight is a modular design with an independent lighting operating system. If a module is damaged, it will not affect the normal use of other modules. This greatly reduces maintenance costs and improves the reliability of the entire lighting system.

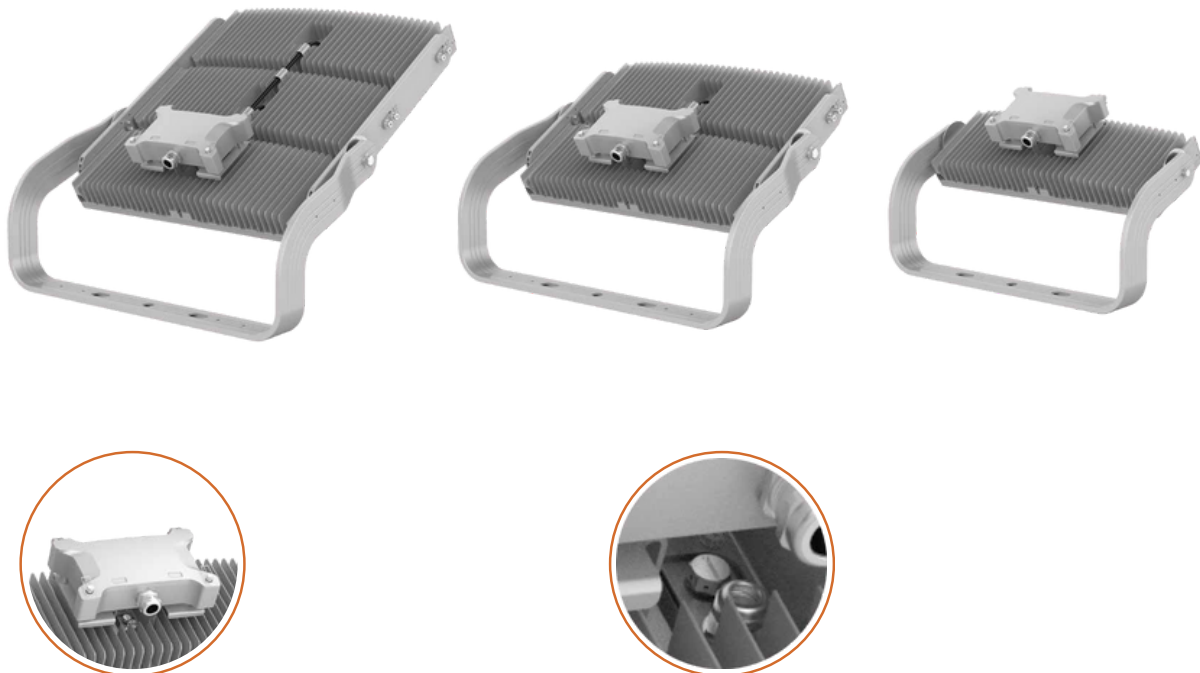
Flexible Light Adjustment

The U-bracket allows free control of the direction of the light by means of adjustments on the precise 5-degree scale of the whole lamp and the individual modules by means of easy and flexible knobs. This flexibility makes it particularly suitable for professional stadiums and other lighting venues.



Outstanding User-friendly Design

The HFL21 is a lightweight, sleek and stylish one-piece aluminum alloy that is safe to install and maintain. Through the coating technology, the service life of the luminaire in salt spray exceeds 1,500 hours, together with the clever design of the valve to promote the effective control of the temperature balance of the luminaire for a long period of time, to ensure that the 7-year warranty commitment.



Reliable Junction Box

The external junction box design enhances waterproof safety and simplifies the installation process, saving valuable time. Ensure the durability and reliability of the lighting system.

Respiratory Valve

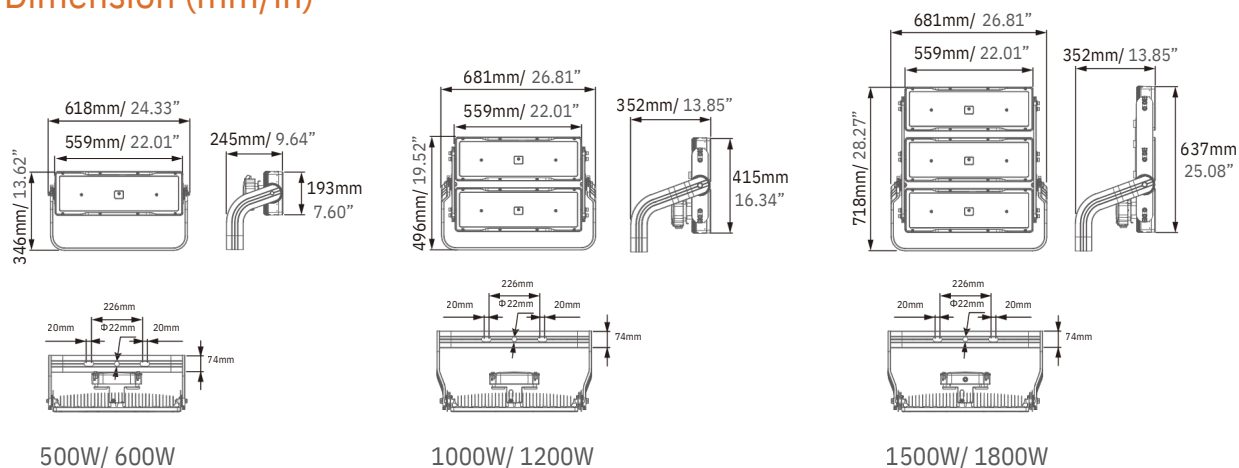
When the lamps work for a long time to reach a certain temperature, the breathing valve plays a role in controlling the temperature and air pressure balance inside and outside the lamps. Excellent heat dissipation system ensures the stability of lighting performance.



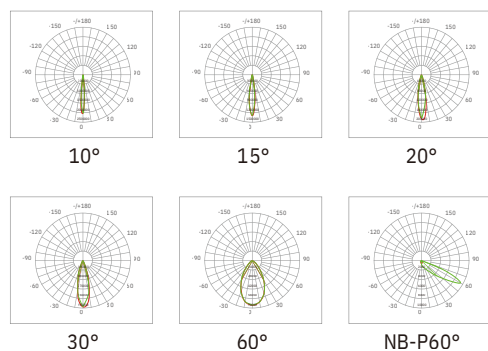
Parameters

Model No.	HD-HFL21-500W/600W	HD-HFL21-1000W/1200W 1000W/ 1200W	HD-HFL21-1500W/1800W
Wattage	500W/ 600W	160Lm/W (500/ 1000/ 1500W) , 155Lm/W (600/ 1200/ 1800W)	1500W/ 1800W
Light Efficiency (@Beam 10° 2424)		165Lm/W (500/ 1000/ 1500W) , 160Lm/W (600/ 1200/ 1800W)	
Light Efficiency (@Beam 15° 2424)		160Lm/W (500/ 1000/ 1500W) , 150Lm/W (600/ 1200/ 1800W)	
Light Efficiency (@Beam 20° 3030)		170Lm/W (500/ 1000/ 1500W) , 165Lm/W (600/ 1200/ 1800W)	
Light Efficiency (@Beam 30°, 60° 3030)		150Lm/W (500/ 1000/ 1500W) , 145Lm/W (600/ 1200/ 1800W)	
Light Efficiency (@Beam NB-P60° 2424)		170,000Lm/ 192,000Lm	
Lumen Flux (@30° 5700K)	80,000Lm/ 96,000Lm	2700K/ 3000K/ 4000K/ 5000K/ 5700K	240,000Lm/ 288,000Lm
CCT		10° / 15° / 20° / 30° / 60° / NB-P60°	
Beam Angle		≥70	
CRI		≤5	
SDCM		AC 220-400V	
Input Voltage		≥0.90 (@220V & Full Load)	
Power Factor		<3%	
Percent Flicker (%)		≤20%	
THD		10KV	
Surge Protection		Class I	
Protection Against Electric		IP66	
IP		IK08	
IK			
EPA (Without Visor/ Installation Angle 30°)	Front: 1.4 ft², Side: 0.59 ft²	Front: 2.08 ft², Side: 0.94 ft²	Front: 2.92 ft², Side: 1.2 ft²
Operating Temp Range		-30°C~+50°C @Outdoor / -22°F~-122°F @Outdoor	
Intelligent Control		0-10V / DMX / DALI	
Lifetime		100,000H (L70B50 @25°C) / 100,000H (L70B50 @77°F)	
Net Weight (kg/ lbs)	8.3 kg±0.5 18.3 lbs±1.1	16.3 kg±0.5 35.93 lbs±1.1	22 kg±0.5 48.5 lbs±1.1
Dimension (mm/ in)	618x 245x 346mm 24.33x 9.64x 13.62in	681x 352x 496mm 26.81x 13.85x 19.52in	681x 352x 718mm 26.81x 13.85x 28.27in
Packing Dimension (mm/ in)	710x 475x 215mm 27.92x 18.70x 8.46in	760x 700x 220mm 29.92x 27.56x 8.66in	760x 710x 250mm 29.92x 27.92x 9.84in
Warranty		7 Years	
Certificate		CE / CB / ENEC / RoHS	
Specification		LED: Bridgelux 3030, Bridgelux CSP2424 Driver: Powerland, MOSO, Inventronics	
Material		Structure: Aluminium Profile / High Thermal Conductivity AL Finish: Powder Coated Lens: Polycarbonate Color: RAL9006	

Dimension (mm/in)



Photometric Diagrams



Applications

Outdoor / Industrial

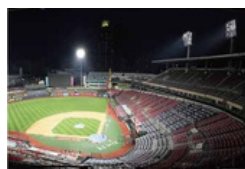
- Sports & Recreational Fields
- Large-scale Outdoor Events
- Crane Lighting and Port Lighting
- Industrial and Construction Sites
- Parking Lots and Garages
- Security and Outdoor Surveillance



Sports Complex



Football Pitch



Baseball Field



Port Lighting

Hi-Volt Ireland Ltd.

Address: Ballyduff, Thurles, Co. Tipperary

Tel: +00353 504 34556

Website: www.hi-volt.ie