



**T90**

**MATRIX LAMP**

T90 MATRIX LAMP is a searchlight adopts four groups of LED lighting combination, with luminous flux up to 20000 lumens, which can effectively illuminate. The lighting distance is more than 150 meters, and the maximum lighting area is more than 1400 square meters. Integrated with three-axis gimbal, could do 360 °control. It supports the linkage of light camera and double PTZ, brightness adjustment, strong light explosion and flash and other modes. Self-regulating cooling fan, efficient heat dissipation, IP45 waterproof and dustproof, not afraid of rain and keeping providing brightness.



20000 lumens



1400m<sup>2</sup> Lighting area



3-axis pan tilt  
Stabilized gimbal



150 meters lighting distance

## - Lighting Modes

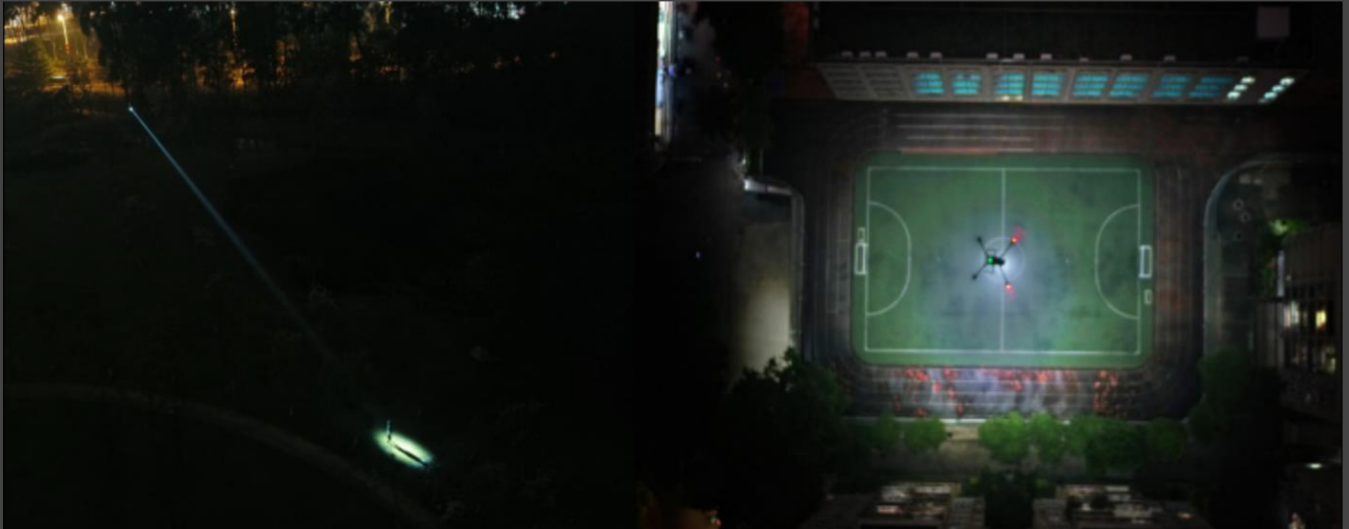
Dual PWM dimming can improve the instantaneous power output and reduce the average power consumption at the same time. It supports various modes such as brightness adjustment, strong light explosion and flash, and uses DJI pilot app to switch with one button to meet the lighting requirements in various environments.

## - Triaxial pan tilt

The three-axis stabilized PTZ 360 ° controls the light direction and provides free angle lighting. It can also realize double PTZ linkage with Zenmuse series PTZ cameras to control the camera light to follow automatically.

## - self-adjustment heat dissipation

The high-speed cooling fan adjusts the speed according to the real-time load temperature to achieve efficient heat dissipation.



## Application

### -Emergency Response/Search and Rescue

Strong and stable lighting is the key factor for the smooth development of night emergency rescue operations. Raytheon T90 can provide multiple modes of flight lighting for the formulation and development of rescue plans.

### -Infrastructure/Facility Repair and Maintenance

Provide large-scale, movable and multi angle air lighting for night troubleshooting and emergency repair of power lines or oil pipelines, greatly improve the emergency repair efficiency and reduce losses.

### -Public security

It provides a flexibly controlled lighting source for law enforcement personnel to perform the tasks of investigation and evidence collection, urban patrol and chasing fugitives. At the same time, the strong light explosion and flash can play a role of warning and deterrence.

### -Firefighting

T90 has a huge illumination area and luminous flux to help firefighters scout the scene in the dark environment, support fire fighting and rescue operations, and provide sufficient illumination for the evacuated people.

### -Other aspects

It can be used to deal with mass incidents, natural resources protection, environmental protection, urban management, maritime law enforcement, etc.

# SPEC

Product Name	T90 Drone Hybrid Zoom Spotlight		
Interface	DJI SkyPort V2		
Dimensions	123 x 142 x 125 mm		
Weight	470g		
IP Rating	IP4X		
Supported Aircraft	Matrice 300 RTK、Matrice 200 V2 SERIES		
Maximum Power	128W		
Lighting Parameters			
Lighting Mode	Hybrid Lighting		
FOV	17°		
Lighting distance	50m	100m	150m
Lighting area	150 m <sup>2</sup>	620 m <sup>2</sup>	1400 m <sup>2</sup>
Center illuminance	86 Lux	25 Lux	12 Lux
Gimbal			
Stabilized System	3-axis (tilt, roll, pan)		
Angular Vibration Range	±0.1°		
Installation	DJI SKYPORT detachable		
Mechanical Range	Tilt: -120° to +90°;		
	Roll: -70° to +90°;		
	Pan: ±160°		
Temperature Parameters			
Operating Temperature	-10 °C to 50 °C		
Storage Temperature	-20 °C to 60 °C		

# DJI SKYPORT

DJI SkyPort provides a standard interface for the development of the Payload SDK. This allows developers to integrate third-party equipment such as sensors and mechanical devices into DJI's advanced flight platform, realizing integrated control of hardware and software, and enriching flight operation functions. It is beneficial to expand the application of UAV to a broader field.