



ZENMUSE S1

DJI's first spotlight designed for multi-payload drone platforms. Utilising LEP technology, it offers high brightness and long illumination distance and supports multiple lighting modes.

GENERAL

Dimensions:	125 × 152 × 171 mm	Weight:	760 ± 10 g
Ingress Protection Rating:	IP54	Eye Safety Class:	IEC 62471: Risk Group 1
Shell Temperature:	< 50° C		
Rated Power:	120 W (Matrice 400) 68 W (Matrice 300 RTK & Matrice 350 RTK)		
Supported Aircraft:	Matrice 400, Matrice 350 RTK and Matrice 300 RTK (requires DJI RC Plus)		

ENVIRONMENTAL

Operating Temperature:	-20° to 40° C	Storage Temperature:	-20° to 60° C
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GIMBAL

Angular Vibration Range:	Hover: ± 0.01° Flight: ± 0.02°	Stabilization System:	3-axis (tilt, roll, pan)
Mechanical Range:	Tilt: -129° to +73° Pan: ± 327°	Mounting:	Detachable DJI SKYPOR
Operation Mode:	Follow / Free / Re-centre	Controllable Range:	Tilt: -120° to +60° Pan: ± 320°

ILLUMINANCE

Effective Illumination Distance:	500 m (Both On mode)	Dimming Mode:	Analog dimming
Maximum Central Illuminance:	40 lux @ 100 m (Matrice 400, Both On mode) 35 lux @ 100 m (Matrice 300 RTK/Matrice 350 RTK, Both On mode)		
Low Beam Central Illuminance:	20 lux @ 100 m (Matrice 400, Low Beam mode) 13 lux @ 100 m (Matrice 300 RTK/Matrice 350 RTK, Low Beam mode)		
High Beam Central Illuminance:	30 lux @ 100 m (High Beam mode)		
Effective Illumination Angle:	15 ± 1° (10% relative illuminance, Low Beam mode and Both On mode) 4 ± 0.5° (10% relative illuminance, High Beam mode)		
Typical Colour Temperature:	6500K typical value (Low Beam mode) 7500K typical value (High Beam mode)		

BASIC FEATURES

Lighting Control:	On/Off, brightness adjustment	Strobe Mode:	- 5 Hz strobe
Lighting Mode:	Low Beam mode, High Beam mode, Both On mode		
Remote Controller Buttons:	Can be set for turning the light on/off, brightness adjustment, or lighting mode changes		
Gimbal Synchronization:	Supports synchronized control with other gimbal-equipped payloads		

SPECIAL FEATURES

Eye Protection:	Automatically limits brightness to 40% when not in flight.
Payload Protection:	LED, LEP temperature protection, overcurrent protection & power protection to prevent damage.
Synchronized Control:	When two Zenmuse S1 are mounted on Matrice 400, both can be controlled at the same time.
Intelligent Beam Alignment:	When used with the Zenmuse H30 Series on Matrice 400, Zenmuse S1 employs gimbal synchronization to automatically align the spotlight beam with the camera view.

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