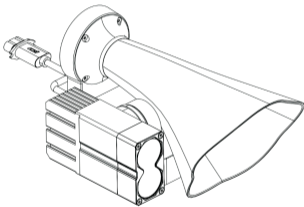


LP12 Searchlight & Broadcasting System

USER MANUAL (V1.0)

2022.04.15



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I. Disclaimer and Warning

Thank you for purchasing czi products. The contents of this document concern your safety and legal rights and responsibilities. Before using this product, please read this document carefully to ensure that you have set up the product properly. Failure to follow and comply with the instructions and warnings in this document may result in injury to you and others around you, damage to the product, or other surrounding items. This document and all related documents are subject to final interpretation by Chengzhi Intelligence. Updates are subject to change without notice. Please visit the official website at www.gzczzn.com for the most up-to-date product information.

Warning

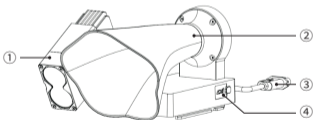
The LP12 is a precision equipment, the body is of sealing to prevent dust and water. In case of hardware problems, please contact the after-sales service at the manufacturer, pls do not disassemble and repair by yourself, otherwise you will lose the warranty and repair eligibility.

Caution

1. Using the device broadcasting function at close range or indoors can cause permanent damage to the human ear! Please use caution!
2. the searchlight contains precise optical equipment, please do not disassemble by yourself! High intensity of light out, please do not look directly at the light outlet!

II. Introduction of LP12

czi LP12 searchlight & broadcasting system is a two-in-one payload specially designed for the DJI M30. LP12 is with a streamlined aesthetic design concept. It challenges the limits of performance while maintaining artistic taste and effectively reducing wind resistance to enhance the endurance of the drone's flight operations. The LP12 is the most efficient lighting and sound broadcasting product up to now of czi, combining the imaging optics of the GL Series gimbal searchlight with the LRAD long-range sound broadcasting technology of the MP Series digital voice broadcast system in an extremely lightweight integration. It weighs only 270 grams, with an effective illumination distance of 150 meters and an effective sound broadcasting distance of 300 meters, which can meet the operational needs of law enforcement patrol and forest search and rescue scenarios. By deeply integrating with DJI Pilot APP, all functions of sound broadcasting and light illumination can be called quickly, making the operation more convenient.



1. Searchlight
2. Speaker
3. Power/communication cable
4. Micro USB port
5. M3 screws
6. Quick mount/dismount bracket

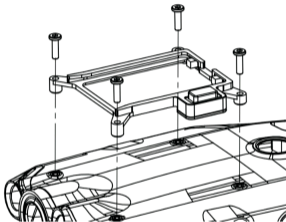


technical parameter

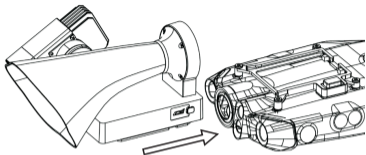
| | | | | |
|-----------------------------------|--|-------------------|-------------------|-------------------|
| Model | LP12 | | | |
| Electrical interface | DJI OSDK | | | |
| Weight | 270g(without quick-mount fixture); 283g(with quick-mount fixture) | | | |
| Dimensions | L162*W115*H75mm | | | |
| Searchlight power | Regular mode:30w Ultra bright mode&Flashing mode:40w | | | |
| Speaker power | 15W | | | |
| Power supply voltage | 24V | | | |
| Luminous flux | 2700lm ± 3% | | | |
| Searchlight FOV | 13° | | | |
| Illumination distance | 150m | 130m | 100m | 50m |
| Spot diameter | 34m | 29.6m | 22.8m | 11.4m |
| Illuminated area | 917m ² | 688m ² | 407m ² | 102m ² |
| Central illuminance | 1.7Lux | 2.5Lux | 6.3Lux | 25Lux |
| | (air humidity 95%) | | | |
| Gimbal movement range | Pitch -120°~+45° | | | |
| Maximum sound pressure | 122dB | | | |
| Effective broadcasting distance/m | 200m@76db; 350m@69db | | | |
| Broadcasting method | Live broadcasting | | | |
| | Upload the recording files | | | |
| | Play audio file | | | |
| | Text To Speech (regional dialect and multi-language) | | | |
| | Background sound | | | |
| Audio formats | mp3/wav/m4a/flac/aac | | | |
| App support | DJI Pilot / DJI Pilot 2 | | | |
| Operating temperature | -20°C~+50°C | | | |

III. Installation tutorial of LP12

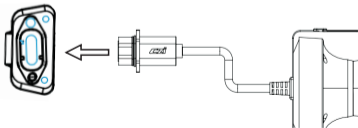
1. Install the quick mount/dismount bracket to DJI M30. Use H2.0 hexagonal screwdriver and M3×10 screws to mount the bracket on the M30.



2. Slide the LP12 on quick mount bracket along the rails to the end and shake the bottom of the LP12 to ensure it is in place and securely locked.

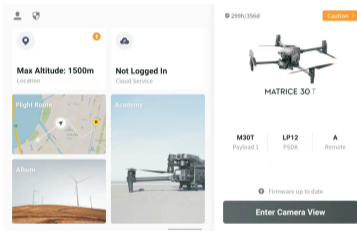


3. to put the LP12 power/communication cable to the MSDK interface. **(Note: do not operate with M30 is on)**

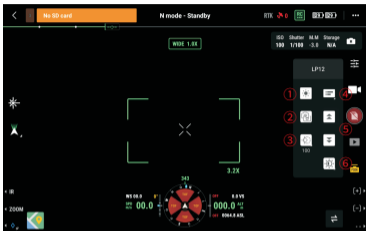


IV. DJI Pilot APP tutorial

1. click DJI Pilot enter into main interface. On the right showing LP12 PSDK, indicating payload recognized. Next operation, click flight interface.



2. entering flight interface, click right bottom "PSDK", showing payload control.



① light on/off



② gimbal synchronization



③ searchlight pitching angle adjustment



④ Status information list



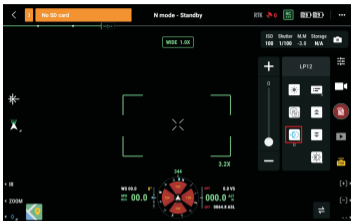
⑤ gimbal fine tune



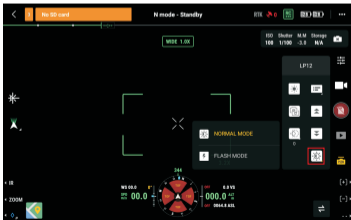
⑥ searchlight modes option




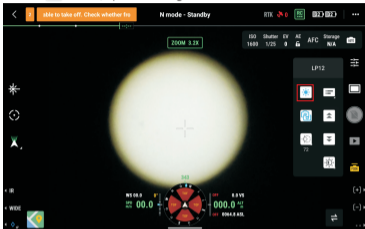
3. Click  button, slide adjustment bar to adjust gimbal pitching angle.



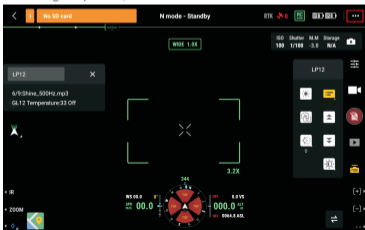
4. Click  button, choose light normal brightness, ultra brightness, strobe mode.



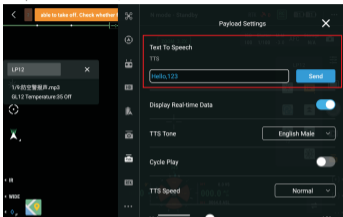
5. Click  button, open searchlight.



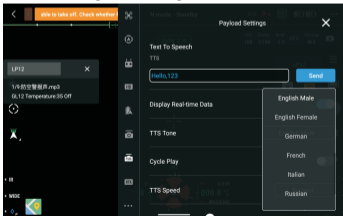
6. Click right top menu, enter menu.



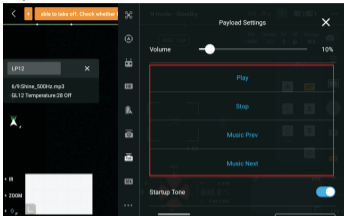
7. Click 3rd party payload button PSDK, text to speech function, click TTS square to enter text, click send button.



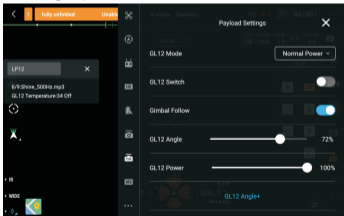
8. TTS human voice options. Human voice options are Cantonese, Hunan dialect, DongBei dialect, English, Italian...etc.



9. Play audi file



10. Searchlight operation interface

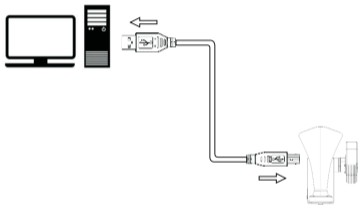


11. LP12 will have live broadcasting function. Pls stay tuned for firmware upgrade.

V. Micro USB port instruction

5.1 Audio file copy

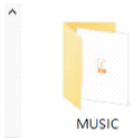
1. use micro USD cable to link up LP12 to computer.



2. Connected, U drive will be showing on computer.



3. double click U drive, check Music folder.



4. double click Music file folder, copy audio file into Music file folder.

(Supported audio file formats: mp3/wav/m4a/flac/aac)

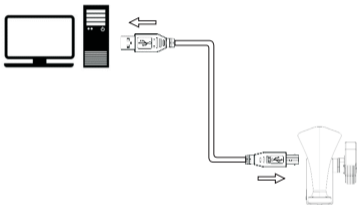
此电脑 > U 盘 (F:) > MUSIC



5. audio file copied to Music file folder successfully.
Quick U drive from computer.

Firmware upgrade

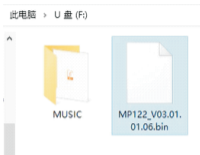
1. use micro USB cable link up LP12 to computer USB.



2. After connection, U drive showing on computer.

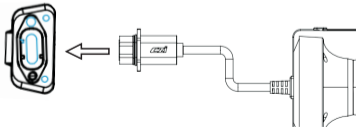


3. double click U drive, copy firmware file into U drive.



4. Firmware copied, quit U drive.

5. put power/communication cable of LP12 to connect M30 MSDK interface,turn on M30. LP12 firmware upgrade successfully.



Pls log on to czi official website www.gzczzn.com for more LP12 updates and information.

If LP12 not working, pls contact your dealer and us directly.

ChengZhi Technical Support
www.gzczzn.com

Service hotline:
400-008-8306

If you have any question or suggestion
to the user manual
Pls contact us via below email
service@gzczzn.com

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