

OpticalAero

HD LINK

SEE ALL.

CRYSTAL CLEAR

Digital HD Fiber-Optic Video Transmission Solution



Version: V1.2



6Core Advantages

*Say goodbye to lag and screen glitches
—ultimate viewing distance at your fingertips*



Ultra-Clear Fluid



Seamless
integration



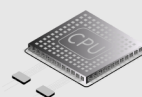
All-in-One Fiber for
Video, Control & Data



Flexible
Monitoring Solution

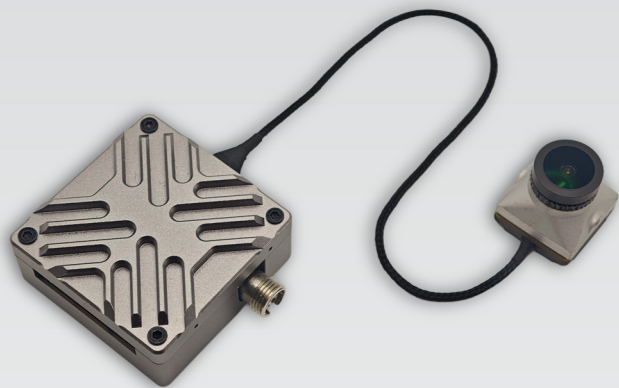


Diverse and long-
lasting power supply



Robust with
multiple ports

HD LINK Sky Unit



Ultra-Compact Design

Facilitates portability and installation in various complex environments.



HD picture quality

Experience seamless 1080p video at 90fps with minimal delay, providing a trustworthy visual foundation for critical operational decisions.



Easy installation

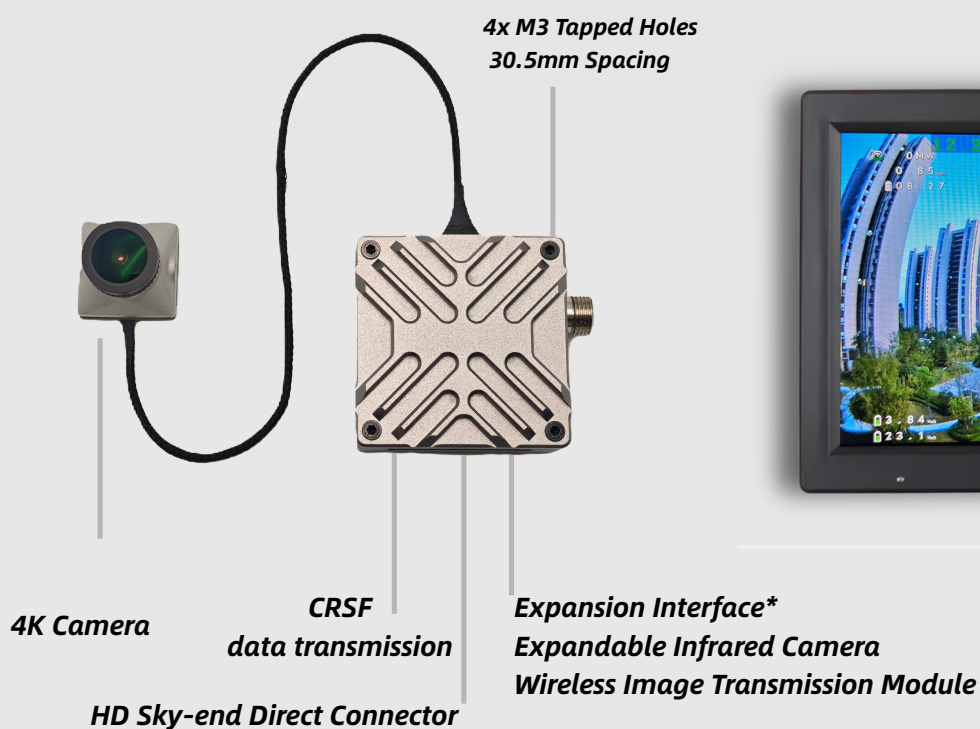
Standard 19mm universal mount & 30.5mm sky-side pitch. DJI Sky-side plug interface for rapid, solder-free deployment.



On-Screen Display

Supports OSD overlay. Seamlessly compatible with Betaflight, INAV, and ArduPilot for simultaneous flight data display.

Interface Diagram



HD LINK Actual Shot Result



Resolution: 4K 20 fps 、 3K 60 fps
1080p 90fps (recommend)
720p 120 fps

HD LINK Ground Unit



All-in-One Fiber for Video, Control & Data

Eliminates three separate systems—video, control, and data transmission—via a single fiber. Simplifies UAV architecture and boosts deployment efficiency.



Immune to EMI with Pure Fiber Transmission

Ensures stable, reliable signals free from electromagnetic interference and terrain obstructions.



Built-in TF Card Recording

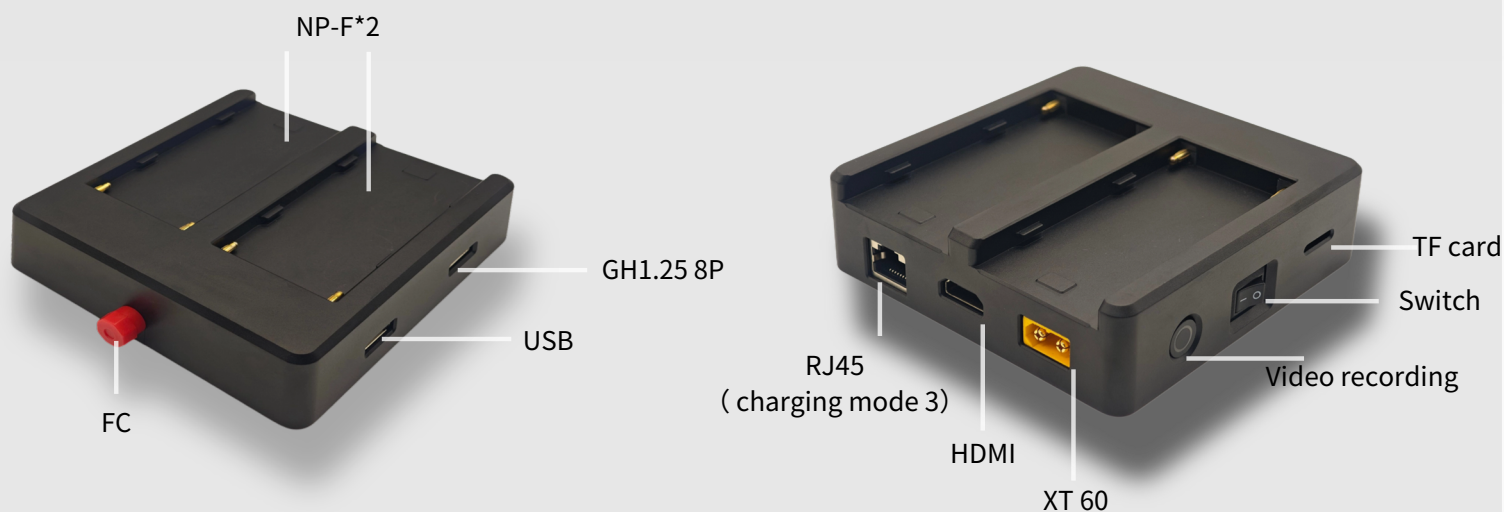
Capture and save critical footage instantly.



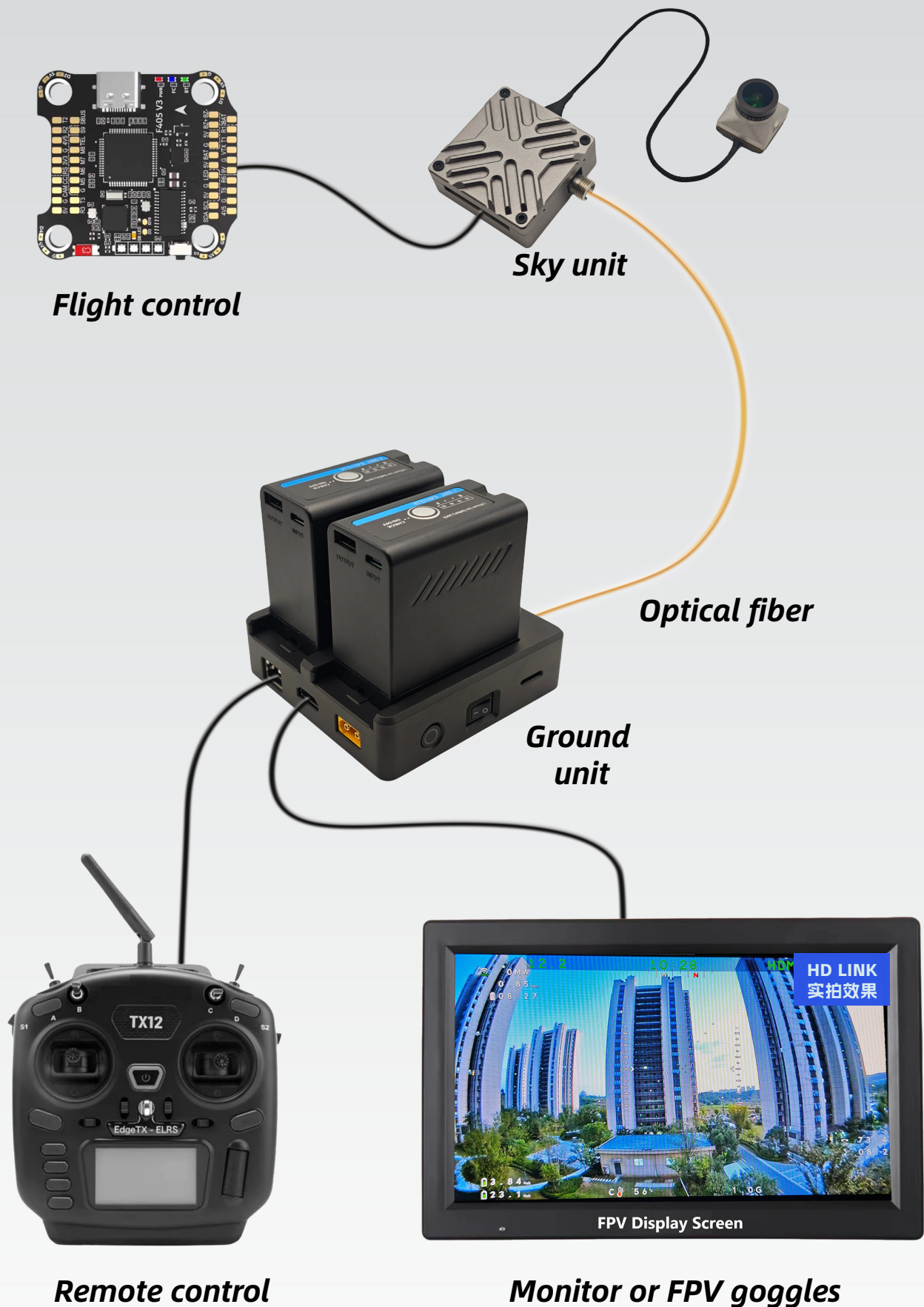
Extended 20-Hour Battery Life

Hot-swappable dual batteries support 20-hour operation. Compatible with XT60 external power or transmitter supply for prolonged missions.

Interface Diagram



HD LINK Connection Diagram



HD LINK SKY UNIT

Category	Item	Specifications
Video Parameters	Resolution	4K 30fps;3K 60fps;1080 90fps;720p 120fps
	Encoding Method	CONFIGUREABLE H.264/H.265
	Video Code Rate	500kbps~20Mbps
	Organisation	about 80 ms
Camera Parameters	Image Sensor	1/2.8 Inch image sensor
	Focal length	2.1mm
	Visual corner	D=174.2° H=145.7° V=80.5°
	Halo	F/1.45
Work	HD LINK SKY END 3.2W	
OSD PROTOCOL	MSP OSD	
Interface	High-level graphic interface	DIRECTLY PLUG IN DJI SKYEND INTERFACE
	FC INTERFACE	Fibre interface
	Serial Digital Interface	transfer crsf protocol, digital
	Extension interface	Expand infrared cameras, wireless image transfer module
Apply fibre-optic	Fibre wavelength	1310/1550nm
	Fibre type	Monomodular fibre
Data Orientation	Double	
Data Format	CRSF/SBUS	
Transmission Distance	0~20km/40km/60km/80km custom	
Environmental adaptation	Working temperature	- 40 + 70 °C.
	Storage temperature	40°C + 85°C
	Humidity	5 ~ 95%, no condensed
Appearance	Main Size	40.2*40.2*18.6MM
	Camera size	19*19*22.5mm
	Camera Line Length	20cm
	Weight	45g (included camera)
	Signals	Power/state instructions 1 each
Install hole	Sky Subject	30.5 mm acoustic M3
	Camera	19 mm to M2

HD LINK EARTH UNIT

Category	Item	Specifications
Video Parameters	Resolution	4K30Fps; 3K60Fps; 1080P90Fps
	Video Code Rate	500kbps~20Mbps
	Organisation	about 80 ms
Interface button	NP-F BATTERY INTERFACE*2	Power supply 1
	XT60 INTERFACE	Power supply 2
	HDMI INTERFACE	Video Output Interface
	TF CARD INTERFACE	For video storage
	USB INTERFACE	Expand wireless modules
	Integrated interface	crsf, sbus input, digital
	RJ45 PORTAL	custom interface: connection transfer crsf/sbus, power supply 3
	FC INTERFACE	Fibre interface
	Ship Switches	Power on and off.
	Video button	Short Start/Pause Video
Work	HD LINK GROUND END ≤4.2W	
Electricity supply range	DC7.4-50.4V	
Apply fibre-optic	Fibre wavelength	1310/1550nm
	Fibre type	Monomodular fibre
Data Orientation	Double	
Data Format	CRSF/SBUS	
Transmission Distance	0~20km/40km/60km/80km custom	
Batteries continue.	1 battery for 10 hours and 2 batteries for 20 hours (heated replacement)	
np-f990 batteries	voltage	7.4V
	Capacity	6000mah
Environmental adaptation	Working temperature	- 40 + 70 °C.
	Storage temperature	40°C + 85°C
	Humidity	5 ~ 95%, no condensed
Appearance	Dimensions	140.3*140.3*29.3mm
	Weight	300g
	Signals	Power/fibre/video/controlled

* Extension interface functionality is currently under development.