

HD-video

Multi-channel

Compatible

Applicable Models: Third party UAV

With an unparalleled 30km range and ultra-low latency, the C.HM30 delivers crystal-clear HD video transmission even in challenging environments.

Applications

Industrial Inspection

Efficient monitoring of pipelines, infrastructure, and remote facilities

Surveying & Mapping

Supports high-accuracy aerial GIS data collection.

UAV Filming

Stable HD video for filmmaking and live streaming

Public Safety

Real-time video for firefighting, emergency response, and disaster management

Specification

Transmission Range

- Maximum: 30 km (unobstructed, interference-free conditions)

Communication

- Channels: 16 communication channels

Compatibility

- Flight Controllers:
 - PX4/ArduPilot Open-Source (SIYI N7, etc.)
 - INAV Open-Source

Ground Control Stations:

- Android: SIYI FPV, QGroundControl, Mission Planner
- Windows: QGroundControl, Mission Planner (H264 only)

Ground Unit Specifications

- Display
- 0.96-inch OLED screen

Power

- Compatible Batteries: NP-F550/F750/F950 Series
- Fast Charging: PD 30W
- HM30 Combo Includes: NP-750 battery

Antennas

- Standard Omni: 5 dBi
- Standard Long Range: 11 dBi
- Optional Lollipop: 5 dBi

Connections

- RC Input: S.Bus/PPM (GH1.25 4-pin)
- Datalink Output: UART (GH1.25 4-pin)
- Ethernet: LAN (GH1.25 4-pin)
- Power Output: VCC (GH1.25 4-pin)
- GCS Communication: Type-C
- Firmware Upgrade: Type-C
- Charging: Type-C
- Power Input: XT30
- Tripod Mount: 1/4-inch screw

Physical

- Dimensions: 109×61×28 mm (excluding battery/antennas)
- Weight: 132 g
- Protection: IP53
- Operating Temperature: -10 to 50°C

Air Unit Specifications

Signal Output

- 16 channels S.Bus
- 5 channels PWM

Connections

- S.Bus Output: GH1.25 3-pin
- Datalink: UART (GH1.25 4-pin)
- PWM Channels: GH1.25 6-pin
- Video/Network: LAN (GH1.25 8-pin)
- Firmware Upgrade: Type-C

Power

- HM30 Air Unit: 3S-6S (12.6-25.2V)
- Note: Previous version supports 3S-4S only
- Optional Power Module: 4S-18S (16.8-75.6V)

Performance

- Power Consumption:
 - HM30 Only: Avg 2.8W, Peak 12W
 - With Power Module: Avg 3.2W, Peak 12W

Physical

- Dimensions: 70×55×16 mm (with fan)
- Weight:
 - HM30 Only: 74 g
 - With Power Module: 109 g
- Operating Temperature: -10 to 50°C

Optional Accessories

- RIM FPV Camera
- Video Output: Ethernet
- Sensor: 1/2.9" 2MP
- FOV: 90° diagonal, 80° horizontal
- Power: 12V, 2.5W
- Video: 1080p/720p @30fps
- Recording: 12 Mbps MP4
- Storage: MicroSD Class10 (≤32GB) FAT32
- Dimensions: 42×42×25 mm
- Weight: 23 g

Optional Accessories

- HDMI Input Converter
- Input: Micro HDMI
- Output: Ethernet
- Power: 12V, 3W
- Video: 1080p/720p @30fps
- Recording: 12 Mbps H.265
- Storage: MicroSD Class10 (≤32GB) FAT32
- Dimensions: 42×41×11 mm
- Weight: 26 g
- Ethernet-HDMI Converters
- Input: Ethernet
- Output: Micro-HDMI
- Power: 8.4-25.2V
- Consumption: Avg 1.5W, Peak 5W
- Video: 1080p/720p @30fps
- Recording: 12 Mbps MP4
- Storage: MicroSD Class10 (≤128GB)
- Dimensions: 42×37×13 mm
- Weight: 25 g
- Temperature: -10 to 50°C (55°C for one variant)

Long-range

1. Low-latency

Modular

C.HM30 Full HD Transmission System



The C.HM30 is a high-performance digital video transmission system for drones, supporting ultra-long-range communication up to 30 km with low latency. Compatible with major open-source flight controllers and ground control stations, its modular design—comprising air unit, ground unit, and optional accessories—delivers reliable HD video transmission and bidirectional data links for industrial drone applications.

Key Features:

- Maximum transmission range of 30 km for stable long-distance communication in unobstructed environments.
- Compatible with open-source flight controllers like PX4/ArduPilot and ground control software including QGroundControl.
- 16 communication channels with S.Bus/PWM output for multi-device control flexibility.
- Ground unit equipped with OLED display, Type-C interfaces, and PD fast charging, supporting multiple battery types.
- Optional 4S-18S wide-voltage power module adaptable to various onboard power systems.
- Modular accessories (e.g., FPV camera, HDMI converters) enable flexible mission expansion.

Contact Us:

info@cici-tech.com

www.cici-tech.com