

Durable

Portable

Versatile

Applicable Models:  
THIRD PARTY DRONE

Delivers long-range, reliable, and high-definition UAV data and video transmission.

## Applications

### Agricultural



Supports precise crop health assessment, field inspection, and aerial spraying.

### Enterprise Inspection



Enables rapid inspection of power lines, pipelines, and infrastructure.

### Search & Rescue



Provides real-time aerial monitoring for emergency response and disaster management.

### Industrial Operations



Captures high-quality aerial data for construction, mining, and large-scale facilities.

## Specification

### Overall System

- Maximum Communication Distance (No Interference, Unobstructed): 15 km
- Agricultural Operation Distance (3 m Flight Altitude): 3.5 km
- Channels:
- Physical Channels: 13
- Communication Channels: 16
- Data Transmission Support for Flight Controller:
- Open-source Flight Controllers: PIX, APM, etc.
- Boying Paladin v2
- JiYu K5A Pro / K4+
- Weike Zhifei V7AG
- Video Transmission Support for Ground Station:
- QGroundControl
- MissionPlanner
- JiYu IFLY / Feifang Manager
- Boying Agriculture
- Weike Zhifei V7Pro Ground Station

### Ground Unit

- Display Device: 5.5-inch 1080P HD high-brightness LCD touchscreen
- System Configuration:
- Android 9.0
- 2GB RAM, 16GB Storage
- Dimensions (Antenna Retracted): 189 × 138 × 41 mm
- Weight: 850 g
- Battery Capacity & Type: 10200 mAh, 7.4V 2S Li-ion
- Fast Charging Protocol: PD 20W
- Charging Time: 5 hours (20W fast charge)
- Operational Endurance: 13 hours
- Functional Interfaces:
- Charging: Type-C
- Firmware Upgrade: DATA (4-Pin)
- Mobile Network: SIM card slot
- External Storage: TF card slot
- Tripod Mount: 1/4" screw hole
- Video Output: Standard HDMI
- External RTK: DATA (4-Pin)
- External USB Drive: USB-A
- Waterproof Rating: IP53
- Operating Temperature: -10°C ~ 55°C

### Air Unit

- Signal Output: 16-channel S.Bus, 5-channel PWM
- Functional Interfaces:
- S.Bus: 3-Pin
- Data Link (Flight Controller): Uart 4-Pin
- PWM Channels 1-5: 6-Pin
- Video Input: 8-Pin
- Firmware Upgrade: Type-C
- Dimensions (Without Antenna): 70 × 55 × 16 mm (including fan height)
- Weight (Without Antenna): 100 g (including step-down module)
- Antenna Gain: 5 dBi
- Operating Voltage: 25.2 ~ 58.8 V (6S ~ 14S)
- Operating Temperature: -10°C ~ 55°C

### Optional Air Unit Accessories

Air Terminal HDMI Input Module (Optional, Standard in HDMI Kit)

- Video Input Interface: Micro HDMI
  - Video Output Interface: Ethernet
  - Operating Voltage: 12 V
  - Power Consumption: 3 W
  - TF Card Recording Resolution:
    - 1080P (1920×1080) @ 30 fps
    - 720P (1280×720) @ 30 fps
  - Video Storage Bitrate: 12 Mbps
  - Supported File System: FAT32
  - Video File Format: H265
  - Supported Storage Card: MicroSD Class 10, up to 32 GB
  - Dimensions: 42 × 41 × 11 mm
  - Weight: 26 g
  - Operating Temperature: -10°C ~ 50°C
- RIM Card FPV Camera (Optional)
- Video Output Interface: Ethernet
  - Image Sensor: 1/2.9 inch, 2 MP
  - Camera Angle: Diagonal 90°, Horizontal 80°
  - Operating Voltage: 12 V
  - Power Consumption: 2.5 W
  - Video Recording Resolution:
    - 1080P (1920×1080) @ 30 fps
    - 720P (1280×720) @ 30 fps
  - Video Bitrate: 12 Mbps
  - Video File Format: MP4
  - Supported Storage Card: MicroSD Class 10, up to 32 GB
  - File System: FAT32
  - Dimensions: 42 × 42 × 25 mm
  - Weight: 23 g
  - Operating Temperature: -10°C ~ 50°C

### Rugged Camera

- Camera Field of View: 120°
- Dimensions: 106 × 25 × 41 mm
- Weight: 108 g
- Spotlight Power: 8 W
- Luminous Flux: 1 W / 120-140 lm
- Spotlight Type: Transmissive
- Illumination Angle: 120°
- Waterproof Rating: IP67
- Operating Temperature: -10°C ~ 55°C

Long-range

Stable

HD

C-MK15 Mini  
Handheld Ground



The C-MK15 A high-performance UAV communication and video system offering long-range transmission, real-time HD video streaming, and versatile compatibility with open-source flight controllers. Designed for enterprise, agriculture, and inspection applications, it delivers stable, reliable, and flexible aerial data solutions.

## Key Features:

- Long-Range Communication: Supports up to 15 km transmission distance with minimal interference.
- Multi-Channel Compatibility: 16 communication channels and 13 physical channels for flexible operation.
- High-Definition Video: Supports 1080P/720P FPV recording with MicroSD storage and H265 format.
- Rugged and Modular Design: Lightweight air and ground terminals with IP53/IP67 protection.
- Extended Operation Time: 10200 mAh battery delivers up to 13 hours of mission endurance.
- Flexible Interfaces: Type-C, HDMI, RTK, TF card, and USB-A ports for comprehensive connectivity.

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