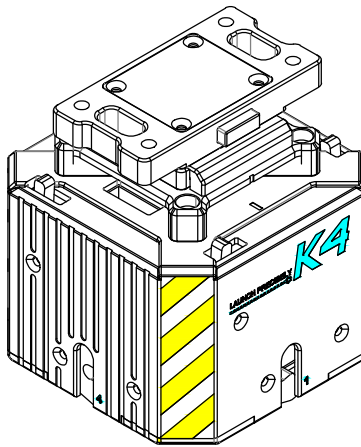
Tianjie K4

User Manual



For more details please scan the QR code
or visit our website:
www.viewprotech.com

1.Datasheet

Datasheet	
Weight	265±5g
Dimension	62*62*67mm
Hook	4
Load capacity	20kg in total (5kg*4)
Power consumption	8W(Single hook)
Power supply	12-30V
Control method	TCP /USART /SBUS /PWM /DJI PSDK(DJI Version)
Control software	Viewlink/DJI Pilot(DJI Version)
Camera	1080p
Video stream	RTSP via Viewlink
Install	Quick release connector

2.2.Product Introduction

2.1 Overview

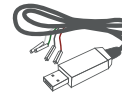
Tianjie K4 is a four-stage delivery system designed for professional drone applications. Featuring four independent hooks and a 1080p camera at the bottom, it enables precise, multi-point, and batch delivery operations with enhanced mission flexibility.

With a compact and lightweight design, the K4 weighs only approximately 265g while supporting a wide input voltage range of 12–30V. Each hook delivers a maximum payload capacity of 5kg, providing a total carrying capacity of up to 20kg.

The system supports multiple control interfaces, including TCP, USART, SBUS, PWM, and DJI PSDK, ensuring excellent compatibility and seamless integration with a wide range of drone platforms.

Designed for demanding aerial missions, Tianjie K4 is widely applicable in emergency firefighting, disaster response, material transportation, infrastructure inspection, and remote field resupply, helping operators improve delivery efficiency, operational flexibility, and mission capability.

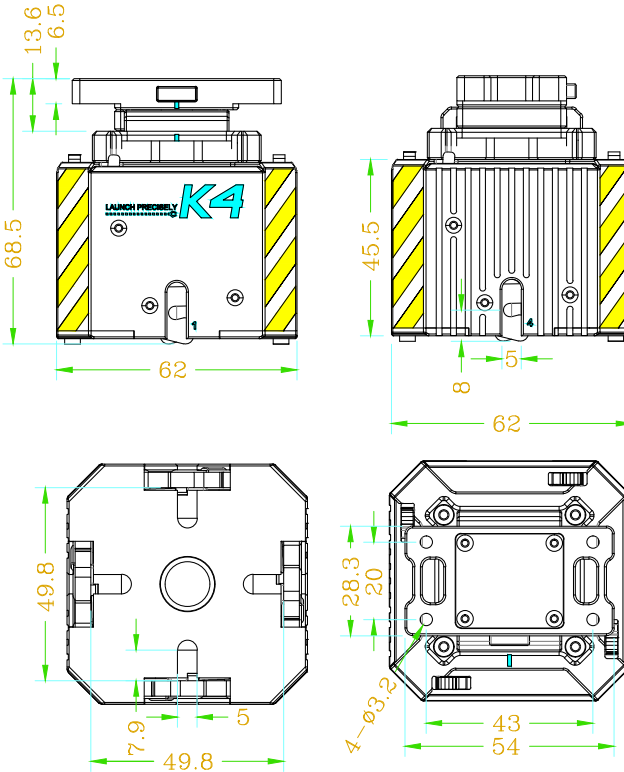
2.2 Packing list

<table>
<tr><th colspan="4">A. Viewport Version</th></tr>
<tr><td>K4*1</td><td></td><td>USB to TTL line *1</td><td></td></tr>
<tr><td>M3 screw*6</td><td></td><td>Quick-release Hook *4</td><td></td></tr>
<tr><td>Power cable *1</td><td colspan="3"></td></tr>
<tr><td>PWM Control Cable*1</td><td colspan="3"></td></tr>
<tr><td>Ethernet Cable *1</td><td colspan="3"></td></tr>
<tr><td>USB to TTL line *1</td><td colspan="3"></td></tr>
</table>

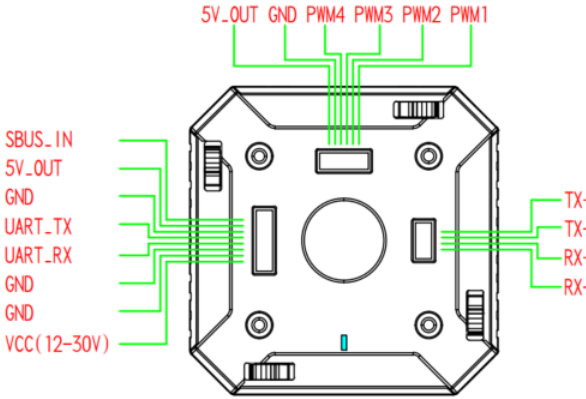
三、Product Diagram

3.1 Dimension

Unit：mm



3.2 Interface Definitio



四、Operating Instructions

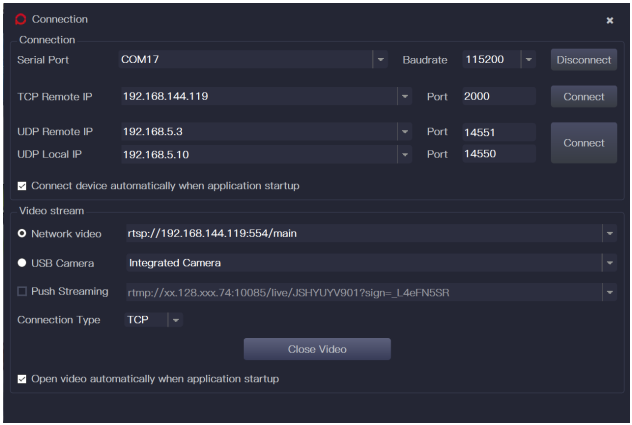
4.1、Viewlink Software Connection

1.Default video streaming address: rtsp://192.168.2.119:554/main

2.Default TCP control address: 192.168.2.119

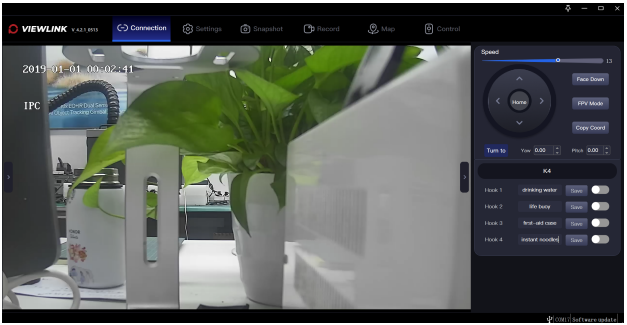
Port: 2000

3.Serial port baud rate: 115200



4.2、 Control Interface

The left side displays the camera output, while the right side provides the hook control interface. The names of the suspended objects can be customized.



4.3、SBUS Channel Control

The SBUS channel mapping is shown in the figure below. An output value below 1500 triggers the corresponding hook to release the payload. Yaw right → Hook 1, Yaw left → Hook 2 ,Pitch down → Hook 3 ,Pitch up → Hook 4



SBUS Control Wiring — Using a Remote Controller Receiver as an Example



4.4 PWM Control

An output value greater than 1500 triggers the corresponding hook to release the payload.PWM1　Hook 1 , PWM2 → Hook 2 ,PWM3 → Hook 3 ,PWM4 → Hook 4

PWM Control Wiring — Using a Remote Controller Receiver as an Example



4.5 Serial Port Control Protocol

Control Protocol:

Hook 1 Release: 55 AA DC 0C A1 20 01 00 00 00 00 00 00 00 8C

Hook 2 Release: 55 AA DC 0C A1 20 02 00 00 00 00 00 00 00 8F

Hook 3 Release: 55 AA DC 0C A1 20 04 00 00 00 00 00 00 00 89

Hook 4 Release: 55 AA DC 0C A1 20 08 00 00 00 00 00 00 00 85

All Hooks Release: 55 AA DC 0C A1 20 0F 00 00 00 00 00 00 00 82

Status Feedback:

Hook 1 Released: 55 AA DC 08 B3 01 00 00 00 00 BA

Hook 2 Released: 55 AA DC 08 B3 02 00 00 00 00 B9

Hook 3 Released: 55 AA DC 08 B3 04 00 00 00 00 BF

Hook 4 Released: 55 AA DC 08 B3 08 00 00 00 00 B3

All Hooks Released: 55 AA DC 08 B3 0F 00 00 00 00 B4