

Chinowing Technology Co., Ltd

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Room 1106, Building B4, Yunzhi Park, No.138, Xingxin Road, Guangming Street, Guangming District, Shenzhen city, Guangdong Province, China

Office: 86 0755-21386581

Hand-held Ground Control Station with Dual Screens

T30S

Version: T30S 202212



Dual 10.1inch FHD displays

Aviation aluminum shell

Integration of video, data transmission, remote control, computer

The T30S is a lightweight all-in-one hand-held ground control station with dual

screens designed for defence and professional industrial users. With high

definition and brightness display screen, it enables real-time HD video and

telemetry data transmitting or viewing. There are 23 physical channels for

remote control of the vehicle and its payload. Single-button or combined

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buttons can be programmed in the RC configuration software.

With Windows/Linux platform, T30S supports the most ground control station software. Industrial-grade computer and military grade data link ensures the safety and stability of the flight. Easy operation and transportation.



Aviation grade joysticks



Long endurance



10.1inch FHD screen



Intel i5 processor



One-key return



Long range remote control



Video, data transmission, remote control

ODM/OEM

Supported



- 2 high definition and high brightness display screens that can be switched via software. The upper screen supports external HDMI video input, also can be used for expanded display of computers.
- Aircraft grade aluminum alloy shell, compact size for comfortable transportation and operation

- Universal platform, suitable for the most flight controllers in the market

- Provides command, control and information of drone and camera as well as real time video

to change.

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Parameters

T30S GCS

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Dimensions		
Overall weight	3000g	
Dimension	364mm*190mm*88mm	
Screen size	10.1inch+10.1inch sunlight readable touch screen, 1920*1200, 800CCD	
Computer Peripherals		
CPU	Intel i5 6200U/2.3GHz	
Touch pad	10 point capacitive touch screen	
Operating system	Windows10/Linux	
RAM	8G(default), support 32G max	
SSD storage	128G(default), support 1T max	
Network	WIFI&Bluetooth(default); 4G(optional)	
Interface	Serial port	TTL, RS232*2
	Power input interface	XT30, DC 12.6V charging port
	External interface (T30SV21, T30 with communication version)	RF antenna connector, Hi-fi audio, USB2.0, LAN port, USB3.0*2, VGA, HDMI, RF antenna connector(From left to right)



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	<p>External interface (T30SN, T30S without communication version)</p>	<p>Aviation connector, Hi-fi audio, USB2.0, LAN port, USB3.0*2, VGA, HDMI, aviation connector (From left to right)</p> 
<p>Remote Control</p>		
<p>Physical channel</p>	<p>23</p> <p>Main Joystick*2 (Industrial joysticks)</p> <p>3-position switch*4</p> <p>Knob *2</p> <p>Key button*11</p> <p>Pull wheel*2</p> <p>(Each channel programmable, the user can assign each channel to preferred joystick, switch, button, etc)</p>	

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Human interface	USB HID device
Remote control function	Dual SBUS independent output
SBUS port	SBUS IN*1; SBUS OUT*2
Remote control latency	40ms
Battery Peripherals	
Battery capacity	Built-in 12.6v/10200mAh 3S Li-ion battery(external battery also supported, 10.5-12.6V)
Working time	3hs with full battery capacity
Charging port	DC12.6V
T30S	
Operating Temperature	-10°C-+50°C
IP rating	IP53
Communication Link	
V21	10km grade, V21 Ground built-in T40

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Video&telemetry& RC link	Air unit antenna: ZYJB antenna*2 Ground unit antenna: ZYJB antenna*2, fiber-glass epoxy antenna*2 (*Other types of antennas also supported)
V31 Video&telemetry& RC link	Max 50km grade, V31 Ground unit built-in T40 Air unit antenna: ZYJB antenna*2 Ground unit antenna: ZYJB antenna*2, fiber-glass epoxy antenna*2 (*Other types of antennas also supported)
The 3rd party communication link	Supported

Airborne Unit

V21 LAN (10Km grade video&data&RC link)		
Item	Parameters	Description

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Frequency band	800MHz(806-826MHz) 1.4GHz(1427.9-1447.9MHz) 2.4GHz(2401.5-2481.5MHz)	3 frequency modules in one, frequency can be modified in the software.
Power	-40-25dbm	adjustable
Transmission range	10km grade@LOS condition	Depend on environment
S-BUS port	2*S-BUS ports	NA
Serial port	1*serial port(default: TTL; optional: RS232)	Full duplex, baud rate adjustable
Video latency	20ms	Transmission latency from Tx to Rx
Power supply voltage	7.4-12V	NA
Operation current	180mA	12v power supply
Bandwidth	1.4-20M	1.4M/3M/5M/10M/20M
Video input/output	LAN	Connecting IPC device/PC
Power supply interface	XT30	

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Antenna	rod antenna
Dimension	85mm*55mm*20mm
Weight	100g(exclude antenna)
Operation temperature	-10°C-+50°C

V31 LAN (50Km grade video&data&RC link)		
Item	Parameters	Description
Frequency band	800MHz 1.4GHz	806-826MHz 1427.9-1447.9MHz
RF power	2w-5w	
Transmission range	V31C: 5km grade (ground to ground) V31: 20km grade (air to ground) V31 Plus: 30km grade (air to ground) V31 Pro: 50km grade (air to ground)	LOS condition

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S-BUS port	2*S-BUS ports	NA
Serial port	1*serial port (default: TTL; optional: RS232)	Full duplex, baud rate adjustable
Video latency	200-300ms	
Power supply voltage	DC 7.4-24V	2S-6S battery
Bandwidth	1.4-20M	1.4M/3M/5M/10M/20M
Video input/output	LAN	Connecting IPC device/PC
Power supply interface	XT30	
Antenna	2-3dBi rod antenna&8-9dBi fiber glass antenna	
Dimension	80mm*56mm*25mm	
Weight	160g(exclude antenna)	
Operation temperature	-20°C-+50°C	


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<p>E11</p> <p>Network Port Expansion</p> <p>Dock</p> <p>(It can work with V21 to extend the serial and LAN ports)</p> <p>(Optional)</p>	 <p>3 serial ports, supports simultaneous use Level: TTL, RS232, RS232</p>
<p>Power supply voltage</p>	<p>7.4v-24v</p>
<p>Serial port interface</p>	<p>TTL*1; RS232*2 (able to work simultaneously)</p>
<p>Serial port working mode</p>	<p>Support TCP Server, TCP Client, UDP Client, UDP Server, Httpd Client</p>
<p>Ethernet port</p>	<p>LAN*3</p>
<p>Weight</p>	<p>60g</p>
<p>Dimension</p>	<p>85mm*55mm*13mm</p>

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Operating temperature	-10°C~+50°C
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T30S Package



T30SV21 Package Content



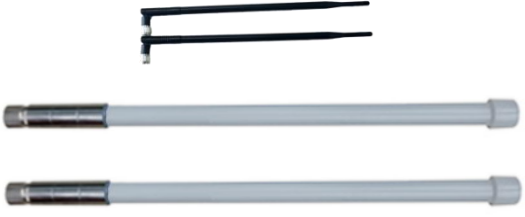

Main Components	
T30S GCS (with built-in V21 transmitter)	V21 Receiver




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Antenna for ground unit (TNC ZYJB antenna*2 fiber-glass epoxy antenna*2)	Antenna for V21 airborne unit (SMA ZYJB antenna*2)
	

Accessories		
Charger (12.6V 4A, for T30S GCS)	LAN-to-4pin cable (LAN cable*1)	HDMI cable&USB Type-C cable
		

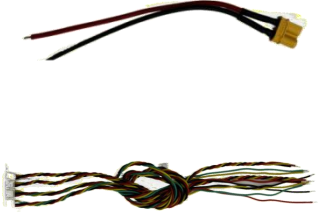

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Other cables (XT30 power cable * 1 SBUS GH 3PIN *3 TTL signal cable GH 4PIN *1)	Neck strap	
		

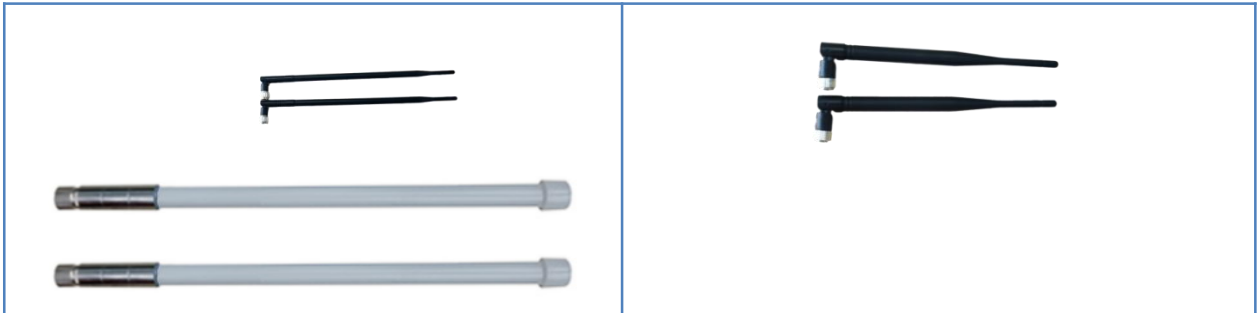
T30SV31 Package Content





Main Components	
T30S GCS(with built-in V31 transmitter)	V31 Receiver
	
Antenna for ground unit (TNC ZYJB antenna*2 fiber-glass epoxy antenna*2)	Antenna for V31 airborne unit (SMA ZYJB antenna*2)

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Accessories			
Charger	LAN-to-4pin cable	Other cables	Neck strap
(12.6V 4A, for T30 GCS)	(LAN cable*1)	(XT30 power cable * 1 SBUS GH 3PIN *3 TTL signal cable GH 4PIN *1)	
			

T30SN Package Content

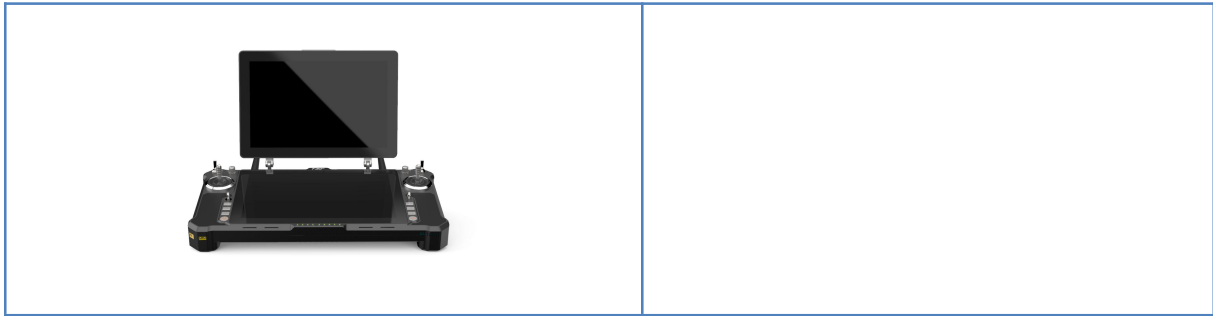
Main Components	
T30S GCS(without communication link)	






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Accessories		
Charger (12.6V 4A, for T30S GCS)	HDMI cable& USB Type-C cable	Aviation connector (4pin LAN*1 6 pin TTL&SBUS*1)
		
Other cables (SBUS GH 3PIN *2 TTL signal cable GH 4PIN *1)	Neck strap	
		

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Package



Product Video

1	T30SV30 control UAV and payload video	https://youtu.be/LrVxqYVGZXM
2	T30S working with 4 LAN cameras	https://youtu.be/pzYHCHsIgSo
3	T30SV30 controlling Hydrogen-powered UAV for low temperature	https://youtu.be/YI0sa63LhZo
Special instruction: For operation teaching videos, pls refer to T30.		

Purchase Guide

T30S has different configurations. When purchasing, pls refer to the below instruction and list.

1. T30S has **without communication version**(T30SN), it can be integrated with the 3rd party communication link.

T30S has with **communication version**. There are several sub-models. Pls specify.

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2. **Communication link V21** has 3 frequencies for choice, 800MHz, 1.4GHz and 2.4GHz for choice. Frequency can be changed in the software. In our standard package, we only configure antennas with one frequency. So when ordering, pls specify.

Communication link V31 has 2 frequencies for choice, 800MHz and 1.4GHz.

Frequency **can't** be changed in the software. When ordering, pls specify frequency.

3. T30S has Windows and Linux versions. Different version, different software.

4. For charger type, we can configure in accordance with the local standard. When ordering, pls notify.

P/N	Range	Airborne unit video input interface	Frequency for choice	Airborne unit serial port	Operating system	Charger type
T30SN	without communications	N	N	N	Windows or Linux	Local standard
T30SV21	10km (air to ground)	V21: LAN	800MHz 1.4GHz 2.4GHz	TTL(default) RS232(optional)	Windows or Linux	Local standard
T30SV31	20km (air to ground)	V31: LAN	800MHz, 1.4GHz	TTL(default) RS232(optional)	Windows or Linux	Local standard

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T30SV31 Plus	30km (air to ground)	V31: LAN	800MHz, 1.4GHz	TTL(default) RS232(optional)	Windows or Linux	Local standard
T30SV31 Pro	50km (air to ground)	V31: LAN	800MHz, 1.4GHz	TTL(default) RS232(optional)	Windows or Linux	Local standard
T30SV31C	3-5km (ground to ground)	V31: LAN	800MHz, 1.4GHz	TTL(default) RS232(optional)	Windows or Linux	Local standard

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