

# G10 PORTABLE GROUND CONTROL STATION



## USER MANUAL

INTRODUCTION / MANUAL / CONFIGURATION / CAUTION

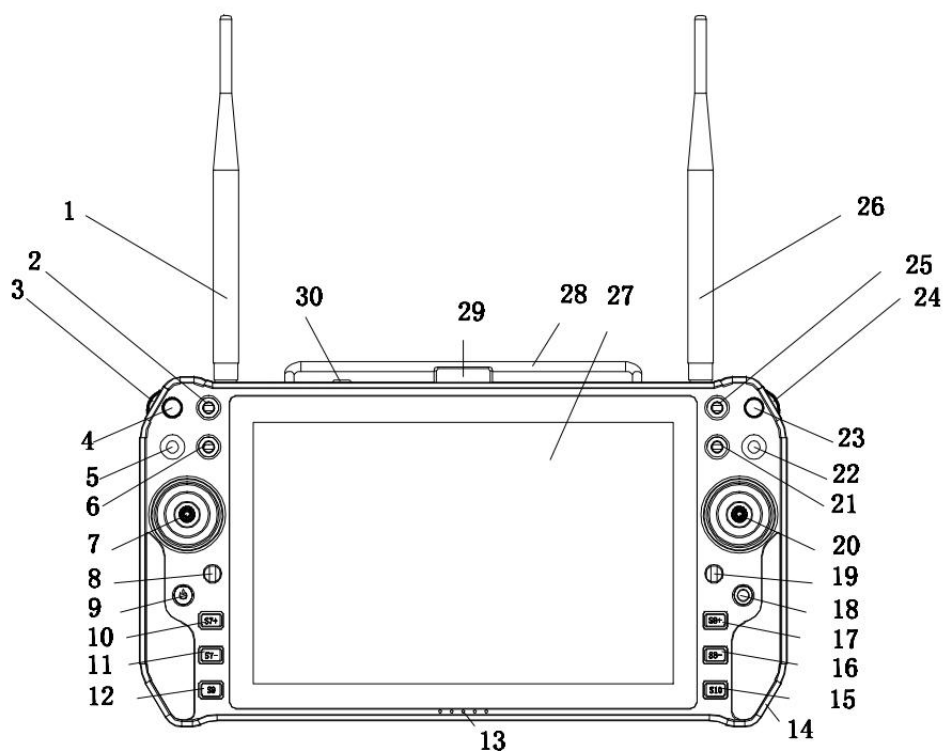
### Usage statement

- Please read this introduction book carefully before using, once used, it shall be deemed to be an endorsement and acceptance of the whole contents of this declaration.
- Please ensure that the product is used in accordance with local laws and regulations, and strictly abide by the use of regional radio frequency regulations, use the specified frequency band and comply with power and radiation limits .
- Please follow the installation procedure and use the product strictly, any loss of equipment or injury to personal safety caused by user improper use、modification、

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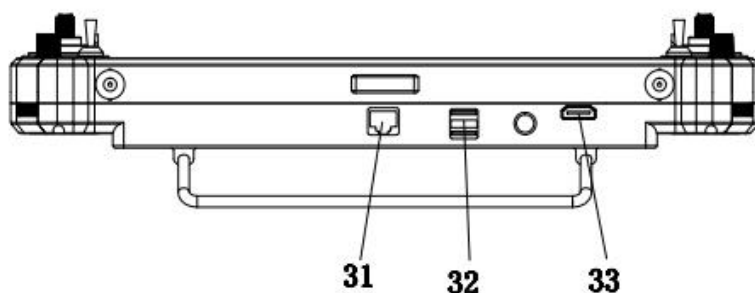
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## I. Product introduction



Front View

1	Antenna	11	S8- button	21	S5 toggle switch
2	S1 toggle switch	12	S10 button	22	S6 toggle switch
3	Roller switch L	13	Power+charging indicator LED	23	T4 knob
4	T3 knob	14	Charging socket	24	Roller switch R
5	S3 toggle switch	15	S9 button	25	S4 toggle switch
6	S2 toggle switch	16	S7- button	26	Antenna
7	joystick L	17	S7+ button	27	10.1" Screen
8	Hanging bolt	18	Thumb stick	28	Handle
9	Power button	19	Hanging bolt	10	S8+ button
20	Joystick R	31	Ethernet Port	32	USB3.0 port
33	HDMI port				



G10 Parameters		
Computer Parameter	Model Number	G10
	CPU	Intel i3/i5/i7 Gen7 (Default i5)
	RAM	4GB
	Hard Disk	Maximum support 2TB SSD (Default 128GB)
	GPU	Intel HD Graphics 620
	Ethernet	1Gigabit RJ45
	OS	Windows7/10/Linux
	WiFi	2.4G/5.8G Dual WiFi Bluetooth 4.0
	Screen Size	10.1"
	LCD resolution	1280*800
	Brightness	1200cccd/m
	Touch Panel	10 points touch screen
	Battery	16.8V 8000mAh
	Charging Voltage	19-24V
	Battery indicator	OS and LED indicator
	Full charger time	3-4 hours
	Battery life	4-6 hours
	Measurement	335*184*40mm
	N.W.	1.6KG
	Storage Temp.	-20-70°C
Work Temp.	-20-60°C	
Ext. Ports	2*USB3.0/1*LAN/1*HDMI	
Remote controller and video link specification	Joystick	2* joystick/2*Roller switch/1*thumb stick
	switch	6* 3 band toggle switch
	potentiometer	2* Knob
	Button	6* button
	Channels	18 CH
	Tuning method	Windows software
	Video input (GCS)	LAN rtsp video stream
	Antenna type	2* SMA

	Frequency	800Mhz/1.4GHz/2.4Ghz
	Bandwidth	2.5MHz (upload) 、 10Mhz (download)
	Transmit Power	0.5 W
	Transmission Distance	10-15KM
	Debug Method	OFDM
	Air part Video input	LAN
	Air part ports	LAN/UART/Sbus
	Air part size	77.8x47.3x23.5mm
	Air part N.W.	97g
	Air part rated voltage	12V/1.2A
	Antenna	Air part antenna 3dbi 19.5cm GCS antenna 3dbi 19.5cm (3-5km) 6dbi 49cm (10-15km)

## II.Manual

1-Press Power button, the computer will start automatic.

2-Turn off:Click the 'SHUTDOWN' in the computer start menu,Then computer will power off automatic.


3-Forced shutdown: Long press power button more than 8 seconds,then the GCS will be power off automatic.

4-Adjust the brightness: Adjust the screen brightness via windows setting.

5-Battery capacity indication : The icon on the Windows bar can display the battery status accurately. And the LED indicator can display the battery remaining power and charging status: Red light is charging , 4 GREEN LIGHT represent the battery capacity: 25%,50%,75%,100%.The buzzer will sound alarm with " DI,DI,DI..." when the battery capacity is lower than 10%. the buzzer will be stopped when the computer started charging or the battery capacity more than 10%.

6-Charging: Please use the special charger and the charging time is 3~4 hours.

## III-Remote controller configuration(SBUS type)

- 1-Open desktop icon of  and COM7 defaulted as the remote configuration port
- 2-Select COM7,Click it and open the port,Roll joystick , and make sure the data connection is successful



3. Map—Configuration SBUS ,NO.1~NO.4 match C1~C4 JOYSTICK (It's used for flight control)NO.5~NO.14 can be freely configured with the corresponding channels, once set up please click "Save"写入配置 (save configuration ) to save the data.

4. Reverse—used to adjust the channel rudder .

5. 最小值、最大值(mini/max value)—The option is used to adjust servo range in both directions. You can adjust the servo in a certain direction separately without affecting other directions for this servo . The factory default is '100',you can adjust as needed. Click button Save to save the data.写入配置 when you're done.

6.Mid value—The option is to adjust servo value t of each channel at the center of Return position. The factory default is "0" , the adjustment range is -120 ~+120 (step) ,you can make a changes as needed. Click the button "save"写入配置 when you're done.

7.Calibration joysticks—The option is to adjust C1~C4 joystick. Adjustment is required When connected to new device, click "Calibration" and adjust C1-C4 joystick to MAX TO MIN positions 3-4 times ,then put the joystick in the middle, the system will indicate a success or failure in adjustment ,If adjustment fails, please repeat the adjustment again .

8.Joystick type-American hand and Japanese hand has different mapping of C1 to C4 as

bellow:



#### IV. Caution (very important)

1. Please connect the antenna before power on to protect the equipment burns if installed video link and data link.

2. Please turn on and off the computer according instruction otherwise it may damage the Windows system.

3. Please don't block the light sensitive indicators on both the upper and down screen as it could influence luminance adjustment ; the system could adjust the screen brightness to a minimum automatically when the light sensitive indicators blocked .

4. No any objects are allowed inside the device such as liquid , sandy soil ,ect.

5. Don't operate the whole machine equipment in water or moist environment unless it reach the IP level .

6. Apply temperature range to operate:  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$  , It could damage the device when the temperature is too low or too high.

#### V. Packing List

- G10 portable ground control station \*1
- AC to DC charger \*1
- Plastic hand box \*1

G10 excluding the data & video link set. It compatible well with M51/Sprintlink series the range 10KM to 30KM depend the datalink/video link.