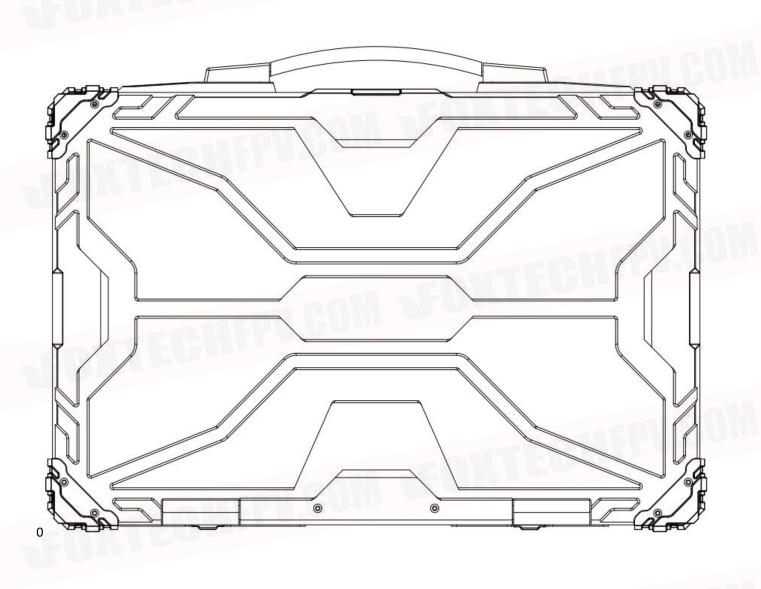
# Foxtech GS-75U Dual-screen Ground Contrtol Station



#### Ground station use and maintenance instructions

The basic operation of a hardened notebook is similar to that of a normal notebook, but there are also differences caused by the unique structure and different features of the design.

#### Power on

Make sure the computer power connection is intact or the lithium battery is fully charged, press the power on button for 1-2s, if there is a password, please enter the user password and then enter the system.

#### Operation

Operate exactly the same as a normal computer, start and run the system.

#### Power off

Click "Start" with the mouse, left-click "Shutdown System" and select "Shutdown Computer" and wait until the screen shows "windows is shutting down". You can also long press the power on switch for about 3S to achieve shutdown.

#### • System crash or abnormality

Press and hold the power on switch for more than 5s, then the power supply can be forcibly cut off, if you need to turn on the power, you can operate according to the normal power on mode.

## Diagnosis and treatment of common faults

### • No response after startup

- 1. When you press the power on button, please check if the computer power indicator lights up, or if you can hear the sound of the computer fan turning. If the aperture on the boot button does not light up, and you do not hear the fan sound, and the computer does not respond at all, it indicates that your computer is not powered on, please check the power supply.
  - 2. See the power indicator light up and also hear the rotating sound of the fan turning. This

indicates that your computer has been powered on, please observe the LCD screen, if it has No response, please check the LCD connection cable, confirm whether the BIOS screen resolution of the external monitor is 1920 \* 1080 bit.

#### • can't boot into the system.

Please confirm in the BIOS if the hard disk information is denied, check whether the system is damaged, if there is damage, reinstall the system.

#### • No response to touch

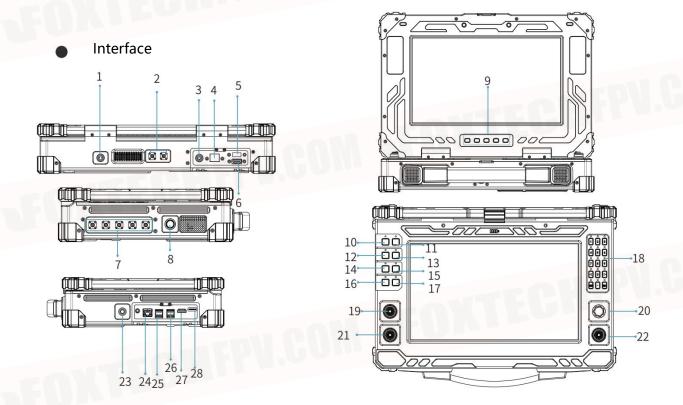
Please check whether the cable between the keyboard touch board and the main board is securely connected.

# **Specification**

System	Processor	Intel 17-7500U		LAN	2	
System	battery	6 hours		USB	5*USB port	
Paramet ers	RAM	DDR4 8G		VGA	1	
	Disk	Solid State Disks 256G	I/O	HDMI	2	
LCD screen	Display type	2*13.3 " FHD TFT LCD		Power input	DC19V	
	Max resolution	1920*1080		SMA Antenna	5(reserved)	
	maximum colour	16M		WIFI/4G	2个	
	Display area	293.472 × 165.078 mm	Internal	Internal reserved space for secondary development		
	brightness	1000nits	reserved	1*RS232/DC 5V/DC 12V/1*USB/1*HDMI/1*LAN		
Touch Sc	Upper screen	Optional resistive touch	Environme	Operating	0°C-50°C	
Touch 30	Lower Screen	Capacitive Touch Screen	ntal	Storage	-20℃-70℃	
	Screen adjustment	Brightness/Source	parameter	Relative	20%~80%@40°C (no condensation)	
	Customized button	8	s	vibration	road grade transportation	
Button	Numeric Keypad	1		material	Aluminum alloy	
Batton	Twist switch	4	h aramatar	color	Grey	
	Knob	1	parameter	Weight	7.8Kg	
	2-axis joystick	3	S	size	429*290*88.6	
Other	loudspeaker*2	Operating System	Windows 7/Linux			

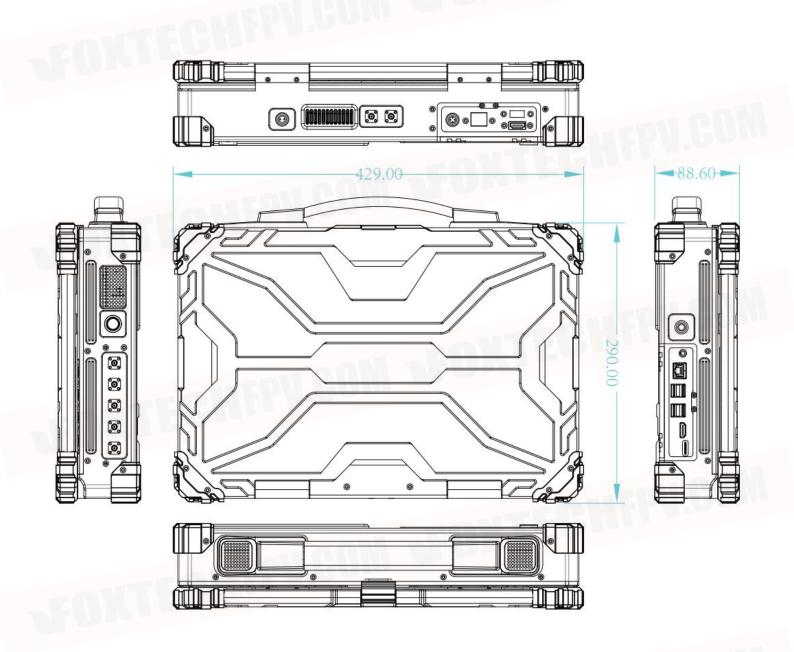
### **Interface Description**

#### Product interface

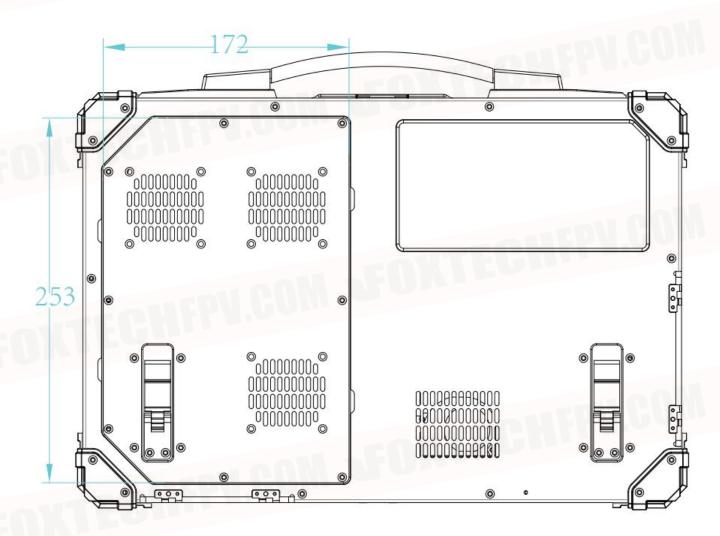


序号	组件	说明	序号	组件	说明
1	DC IN	DC I9V	15	F6	00 04
2	WIFI/4G		16	F7	00 02
3	aviation plug	reserved	17	F8	00 01
4	LAN	reserved	18	Numeric Keypad	
5	USB	reserved	19	Joystick	
6	HDMI	reserved	20	Knob	
7	SMA	reserved	21	Joystick	
8	Switch		22	Joystick	
9	Brightness/Source	Adjust screen brightness an	23	Power-on	001
10	F1	00 80	24	LAN	
11	F2	00 40	25	USB	2*USB3.0
12	F3	00 20	26	USB	2*USB2.0
13	F4	00 10	27	HDMI	
14	F5	00 08	28	SIM	

# Dimension



# • Size of the reserved space at the bottom



## **Computer operation instructions**

### • Turn on the computer

1. Press the top of the laptop with your thumb to open the laptop



2. Press and hold the computer's rear power-on button to turn on the computer



**Power Switch** 

# Interface cover operating instructions

The cover can be opened by pressing down the snap with the thumb and pivoting outward.







# • Instructions for the use of the aviation plug interface

1. Plug in the connection cable





Note:

When the cable is inserted into the interface, please align the red dot on the cable with the red dot on the interface

2. Unplug the connection cable

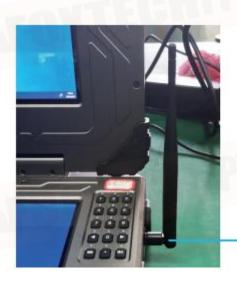


When unplugging the cable, use your fingers to push back the position shown in the figure above to unplug the cable.

# Antenna interface operating instructions



Insert the antenna into the WIFI interface, rotate and tighten the position of the antenna as shown in the figure



Bend the antenna

# Antenna interface operating instructions

1. Click on the Start menu at the bottom left corner of the desktop



2. Select power options

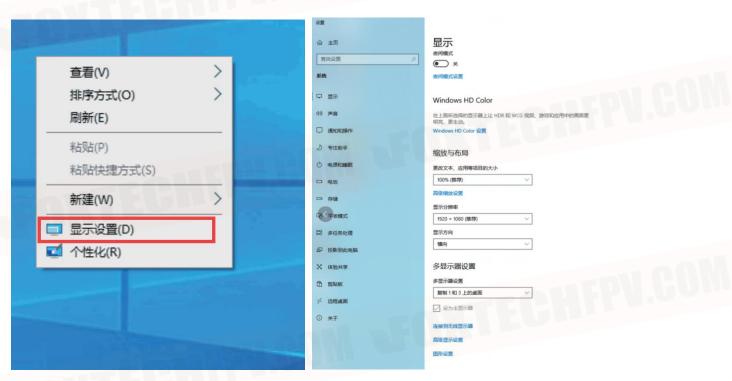


3. Select Shutdown to turn off the computer



Extended Desktop Settings

Right-click the desktop, click Display Settings to enter the monitor settings panel



Click the Multi-monitor settings drop-down list and select "Extend Desktop 1 and 3" to enter the next setting screen





Click on the logo to identify the monitor number (the number is displayed at the bottom right of the monitor)





Drag the monitor serial number square to arrange the monitors, and click Apply when the settings are completed.

# 显示

### 重新排列显示器

选择下面的某一显示器以更改其设置。长按(或选择)一个显示器,然后通过拖动方式来重新排列。



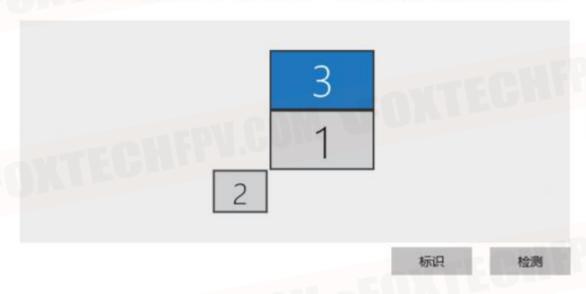
Note: The following arrangement, the mouse can be moved up and down to move back and forth between the two monitors of 3 and 1 serial number

(When the mouse cursor in the serial number 3 monitor, put the mouse down, the mouse cursor can be to the serial number 1 monitor to operate)

# 显示

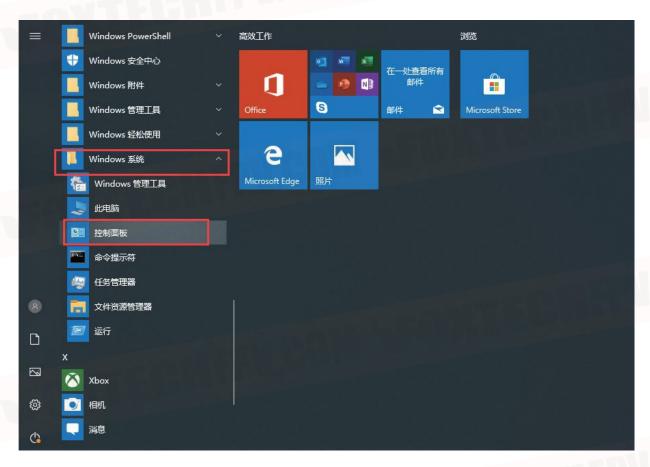
### 重新排列显示器

选择下面的某一显示器以更改其设置。长按(或选择)一个显示器,然后通过拖动方式来重新排列。



# Touch screen settings

Click on the Start menu and select Windows System, then select Control Panel in the drop-down list.

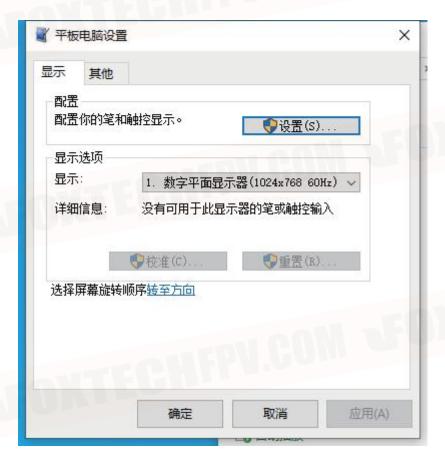


#### Select tablet settings

#### 调整计算机的设置



Click on Settings



Tap to touch input



Enter the settings screen and operate according to the text prompts.

Tap the screen with one finger to identify it as a touch screen. If this is not a tablet screen, press Enter to go to the next screen. To close the tool, press ESC.

Press **Enter** to continue to the next step to complete your configuration.

Note: After a monitor is set up and enters the white screen state, press "Enter" once more to set up the next monitor, after the setting is completed, just press ESC to exit.

#### Battery indicator status description



When the battery power reaches 20% the light turns red (at this time you can access the adapter for charging)

When the battery power reaches 10% the light flashes slowly, the power reaches 5% the light flashes quickly (connect the adapter to change the light flashing status)

## Signal source adjustment instructions



Press the PLUS button to select the signal source, and then press Enter to complete the selection



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STATE OF THE OWN SEONATE CHEPULTUM

# Joystick/key communication protocol

		Jo	ystick/Button Communi	ication Protocol		
After p	power-on, data	frames are : COM4 11520	sent every 10ms (100Hz)			
Byte No.	Name	Туре	Value	Note	Physical Location	
2 Head-Frame Data 1 Update Mark		unsigned two bytes	0xAA55	- reput C		
		unsigned one byte	0x01、03、05、07、0B、 0D	Loop through the list of (1, 3, 5, 7, 11, 13)		
1	Placeholder	unsigned one byte	0X3C			
	Button	F1	00 80	[		
		F2	00 40		IM	
		F3	00 20	WIECHFPY.	In general, t	
2		F4	00 10	MILO	buttons a	
2		F5	00 08		the front of the ground station. The naming rule for buttons are joysticks are follows:  The buttons, from top bottom, increasin the order	
		F6	00 04	CHEDU C		
		F7	00 02			
		F8	00 01	WIEGHI		
2	Status	Reserve	00 00 00			
2	Joystick 1 Up/Down	int16	Up: E803 Down: 18FC	1000:top, 0:neutral position, -1000:bottom		
2	Joystick 1 Left/Right	int16	Left: 18FC Right: E803	1000:rightmost, 0:neutral position, -1000:leftmost	button 1, butt 2;	
2	Joystick 2 Up/Down	int16	Up: E803 Down: 18FC	1000:top, 0:neutral position, -1000:bottom	The joysticks, from left to right from top bottom, increa- in the order joystick	
2	Joystick 2 Left/Right	int16	Left: 18FC Right: E803	1000:rightmost, 0:neutral position, -1000:leftmost		
2	Joystick 3 Up/Down	int16	Up: E803 Down: 18FC	1000:top, 0:neutral position, -1000:bottom		
2	Joystick 3 Left/Right	int16	Left: 18FC Right: E803	1000:rightmost, 0:neutral position, -1000:leftmost	1, joystick 2.	

2	Knob	int16	Left: 18FC Right: E803	1000:Knob rightmost, 0:neutral position, -1000:Knob leftmost	
2	Reserve		default 0x3C3C		
2	Reserve		default 0x3C3C	WIFCHFPU.GO	otherwise, is
2 Reserve default		default 0x3C3C	UKILO	as invalid data.	
2	Reserve	EHIL	default 0x3C3C	]	
2	Check		THE OWN AFT	CRC16_CCITT:multinomial:  x^16+x^12 [+x] ^5+1  (0x1021), initial value  0x0000, lower bit-front, high bit-back. The result is xor with 0x0000	A

# Joystick/Button Diagram

