



User Manual V1.00



www. tarotrc. com

2015-06-16 Revision

Contents

Product Introduction

With ZYX-OSD, basic fight information, such as altitude and speed, can be superposed on the receiver You can obtain actual fight status in real time to ensure a safe and delightful journey.

Moreover, the data-recording function ensures all the fight data would be saved in MINI-SD card, which facilitates you to analyze information and serves as a black box in the critical moment. Also, please make sure MINI-SD has been formatted into FAT32.

Two video outputs are available to be switched by R/C, and PAL or NTSC (video format) can be recognized automatically.

Please note that: ZYX-OSD has to work with ZYX-M fight control system.

Specifcations

Input voltage/current	12 V (80mA) with no external power	
Output voltage/current	12V (1.5A) & 5V (2.0A)	
Dimensions	5 <mark>3mm</mark> *36 mm <mark>*10 m</mark> m	
Weight	18g	
Video Format	PAL/NTSC (AUTO-identifcation)	
Operating Temperature	−20 °C ~60 °C	

Wirings



1.Products to be prepared: ZYX-OSD Module, ZYX-M Multi-Rotor Flight Controller, PMU Power Management Module, MINI-SD Card, Camera/Other Video Input Device, Wireless Video Transmission Module(Transmit and Receive) and Monitor.

2. The supply voltage of ZYX-OSD is 12V, and you should choose the PMU module of ZYX-M to power it. Please ensure the correct wirings between ZYX-OSD and other devices.

3. Wire other cables according to the diagram. Please ensure the correct connections of input port of fight controller, AV-IN port and AV-OUT port.

Port Descriptions

POWER-IN	Input Port of Power Supply: with 12V power supply of PMU Module	
DATA	Firmware Update& Assistant Software Port: connect the USB Module and PC. Also, set parameters and update the frmware.	
FC	Connection Port of Flight Controller: connect the fight controller and ZYX- OSD Module through a 3P cable. All the fight data and control data will go into ZYX-OSD module through this port. ZYX-M fight controller will control the switch of display data and AV-IN channel.	
AV-OUT	OUTVideo Output and Power Supply Port: this port provides 12V voltage output, and 1.5A current output at maximum. Also, it is available to power up the image transmission.	
AV-IN	Video Input and Power Supply Port: this port provides 12V and 5V voltage output, 2A current output at maximum. Also, it is available to power up the camera and other video input devices.	
SD	Mini-SD Card Port: for data storage.	

Input Video Source Switch Descriptions

You can control the ZYX-M flight control module to switch between different input video sources. If you have installed two cameras, and wish to switch from different video sources during flight, please choose two-positioned switch of R/C and observe the corresponding channel in the CamSwitch of OSD channel inCH Mapping of BASIC page in the ZYX-M Assistant Software. Moreover, toggle the switch to observe themovement of cursor.

Screen Type Switch Descriptions

You can control the ZYX-M flight control module to switch between different screen types. If you needto switch different switch types during flight, please choose a two-positioned switch R/C and observe the corresponding channel in the InfoSwitch of OSD channel in CH Mapping of BASIC page in the ZYX-MAssistant Software. Moreover, toggle the switch to observe the movement of cursor.

A Assistant	简体中文(Language) 🔻 ᄤ 🗕
5 × 0 / 2	COM1 -
View Basic Advanced Tool Info	Write Flash Connec
Aircraft Mounting Receiver Gain CH Mapping	
Channel Mapping	
Aileron L R O Rev. Unmapping GoHome	0 Rev. Unmapping
Elevator F B 0 Rev. Unmapping V IOC -	0 Rev. Unmapping
Gear -	0 Rev. Unmapping
Throttle D U 0 Rev. Unmapping GimbalTilt -	0 Rev. Unmapping
Rudder L R O Rev. Unmapping V	OSD Channel
Mode 0 Rev. Unmapping V CamSwitch -	0 Rev. Unmapping
InfoSwitch	0 Rev. Unmapping
Calibration	
	Unconne



NO.	FUNCTION	DISPLAY	DISCRIPTIONS
1	ROLL	R 0°	When the value is positive, the aircraft moves to right; When the value
	Attitude		is negative, the aircraft moves to left.
2	РПСН	P 0°	When the value is positive, the aircraft nose is up; When the value is
	Attitude		negative, the aircraft nose is down.
3	Horizontal		
	Speed	⊪ ♦0KM/h	The aircraft horizontal speed.
	FailSafe FS	As Failsafe is triggered, "FS" icon blinks. Otherwise, this icon will be	
4		F S	constantly on.
	MAN		MAN: Manual Mode
5	Flight Mode	ATT	ATT: Attitude Mode
		GPSH	GPSH: GPS Mode
		GPSC	GPSC: Intelligent Heading Mode

4

TAROT ジメーOSD ASSEMBLY SECTION 组装说明书

	Detter		Delt's later the Wile de the 'le adapted at the	
6	Battery Valta as	↓ 0.0V	Real time battery voltage. When the voltage is lower than the set value,	
	vonage		Ballery Icon blinks.	
7	Satellites	0 💐	value, "Satellites" icon blinks.	
8	Relative	Tu 0m	The height between the aircraft and take-off point	
	Altitude	Lu Alli		
	Distance			
0	Between	A D .	Distance between aircraft and home point. The icon will blink when	
9	Home Point	តិដ្ឋ0m	distance is over the alarm.	
	and Aircraft			
1.0	Vertical			
10	Speed	∎0.0	Aircraft vertical speed.	
11	Attitude Line	···· ~ ····	Use attitude line to observe aircraft attitude.	
			When the home point is in front of the aircraft, the angle is 0° and the	
			arrow points to the top of screen	
			When the home point is in the right side of the size of the angle is 00°	
			when the nome point is in the right side of the aircraft, the angle is 90	
	Azimuth An-	_	and the arrow points to the right of screen.	
12	gle between	🛖 ↓ -180°	When the home point is in the left side of the aircraft, the angle is -90°	
12	Home Point		and the arrow points to the left of screen.	
	and Aircraft		When the home point is behind the aircraft, the angle is $+180^{\circ}/-180^{\circ}$,	
			and the arrow points to the bottom of screen.	
			The arrow points to the direction of home point. You can return to the	
			nie allow points to the direction of nome point. Tou can retain to the	
	SD Card		SD Card will blink if SD Card has not been installed or some errors	
13	Status	SD	hannen	
	AV-IN			
14	Channel	AV1 AV2	The relevant Video Input Channel.	
15	Time Display	<mark>ੴ0:01:3</mark> 1	The working time since it has been powered on.	
		0KM/h		
	Harisantal			
	Horizontal		Aircraft Horizontal Speed.	
16	Speed &			
	Scale-plate			
	Direction			
17	Angla	<u>۵</u> 0°	Included Angle between aircraft nose and due north direction.	
	Aligic	U T⊭0m		
	Vertical	-		
10				
18	Altitude &	-	Aircraft Height.	
	Scale-plate			
		<u> </u>		
19	Aircraft			
	Direction &	T	The resolution ratio is relevant to the may distance clarm. Diagon set or	
	Home Point	0	The resolution ratio is relevant to the max distance alarm. Please set an	
	Display		appropriate alarm distance.	
	Display I		· · ·	

Assistant Software



How To Use The Assistant Software

1. After turning on the R/C, switch on the computer and power up the ZYX – and PC through USB module.

2. Run ZYX-OSD Assistant Software and choose a correct port. Click "Connect" button. If "Connected" has been showed in the left bottom, the connection is correct.

3. Choose an appropriate screen type based on your preference and adjust display position of IOS information. Also, set the alarm of satellites, voltage, distance, min altitude and max altitude.

4. The edit box will turn yellow when all the parameters have been modifed. Please press "Enter" key to save parameters.

5. Please click "Write Flash" to save parameters. Otherwise, parameters will lose.

6. In Info page, you can fnd the current frmware version, and update it from local or online.

LED Indicator

LED	Descriptions	
RED & Blue Light Blink twice.	Initialization.	
Blue Light Blinks.	Connection with fight controller and data recording function are correct.	
RED Light Blinks twice.	MINI-SD Card has not been installed or abnormal working condition.	

Troubleshooting

Phenomenon	Reasons	Solutions
Only OSD information, no video signal.	Video input error;	Check AV-IN port and video input device.
No image in the screen.	Video output or wireless transmission error;	Make sure the image transmission and screen are correct.
OSD data have not changed.	Flight controller port connection error;	Make sure the cable between fight controller and OSD is correct.
After powering up, RED & Blue Light turn off.	Power-supply problems;	Pay attention to the negative and positive of power supply and supply voltage.
RED Light blinks twice.	MINI-SD card has not been installed or abnormal working condition;	Insert Mini-SD card or format it into FAT32. Without Mini-SD card, data- recording function cannot be triggered, but OSD information still can be shown.
	1. Drive has not been installed	
OSD Module cannot be	correctly;	1. Re-install the drive ;
connected to PC through USB	2. A wrong port has been chosen;	2. Choose a correct port;
cable.	3. USB Module and ZYX-OSD Connection Port error;	3. Check the connection cable;