CE RoHS

5.8 GHz Diversity Goggle

MARVEL VISION II

Built-in DVR
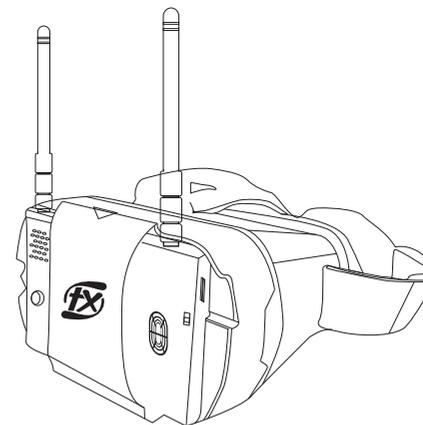
User Manual

Contents

Age Recommendation:14+

Not for children under 14 years old.
(Using any near eye displays on children under 14 years old can cause eye development problems.This is not a toy.)

Warning:

Please read the entire user manual before operating.Failure to operate the product can result in damage of the product and personal property.

1.Features:

1). Plug&Play
2). With HDMI IN, version 1.1
3). DVR functionality,support one-key-recording
4). Built-in diversity receiver,automatically receive best signal
5). High brightness 800cd/m2
6). Easy to use screen system and 5 way joystick with channel
     auto scan
7). With AV IN and AV OUT

2.Specifications

	Items	Specifications
Display screen	Screen size	5 inch
	Screen type	TFT LCD screen/long life
	Resolution	800x480 pixels
	Aspect ratio	16:9
	Brightness	800cd/m2
	Video format	AUTO/NTSC/PAL
	Audio	6.5MHz
	Input signal	AV/HDMI
	HDMI IN(mini HDMI)	Version 1.1 digital
	Output signal	AV
	Inputvoltage	7-28V
	Power consumption	560mA@12V
	Work status OSD display	Yes
	Recording format	AVI
	Support TF card	Max 32GB micro SD card
	Antenna connector	SMA
	Dimension	129mmx89mmx11mm
5.8GHz receiver	Sensitivity	-90dBm
	Frequency range	5645MHz-5945MHz
	Channel	40 channels(it can be customized)
	One-key-search frequency	Yes, button control instead of switch
	Audio	6.5MHz
Goggle	Color	Black&Red
	Dimension	165x155x102mm
	Weight	374grams

Below is channel table for your reference.（Unit：GHz）

CH FR		CH							
		1	2	3	4	5	6	7	8
FR	F	5.740	5.760	5.780	5.800	5.820	5.840	5.860	5.880
	E	5.705	5.685	5.665	5.645	5.885	5.905	5.925	5.945
	A	5.865	5.845	5.825	5.805	5.785	5.765	5.745	5.725
	R	5.658	5.695	5.732	5.769	5.806	5.843	5.880	5.917
	B	5.733	5.752	5.771	5.790	5.809	5.828	5.847	5.866

3.Controls Diagram

LED for B receiver

Record Button/
Confirm button

LED for A receiver

SMA

HDMI IN

TF card slot

AV OUT
(2.5mm-J)

AV IN
(2.5mm-J)

8-28V IN
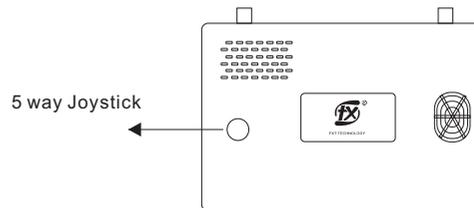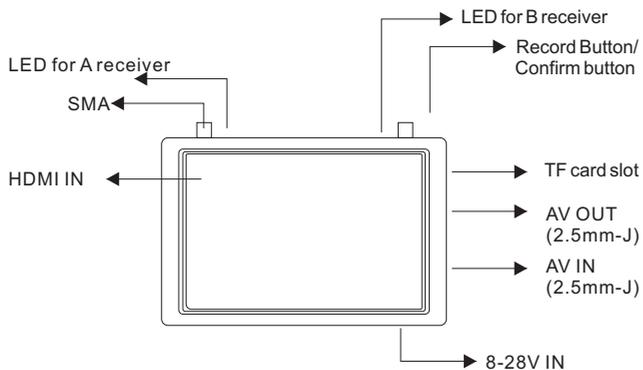
5 way Joystick

How to to use 5 way joystick:

Switchworking mode/Switch menu items

Press down joystick to turn on/off
or enter/exit menu

Change band /
Increase value

Change channel/
Decrease value

Auto scan channels/Switch menu items
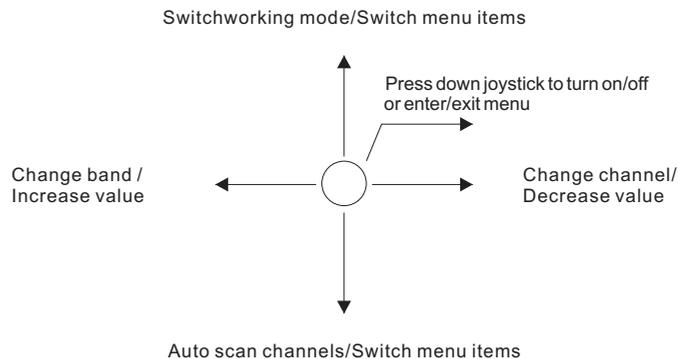
4.Goggle Operations(Operations for 3 working modes)

1).Turn ON/OFF monitor
   Connect battery(2s-6s) with monitor,insert micro SD card into
   TF card slot(if you want to record video).
   Single press down joystick to turn on monitor
   Long press downjoystick to turn off monitor

2).FPV mode(default working mode)
　　After powering on,LED for A receiver will be lit,it enter FPV
mode,and display channel&band info ▦ ,then display
below information:

| A:46 | B:66 | F1 | 5.740G | 00:08:19 | 11.8V |
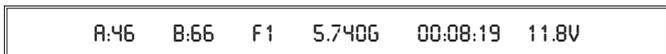
OSD	Explanation
A:46	A receiver signal strength value(00-99)
B:66	B receiver signal strength value(00-99)
F1 5.740G	Frequency band and channel
00:08:19	Working time
11.8V	Input voltage
SDX	Monitor with no micro SD card

How to select channels:

1.Pressing backward joystick to auto scan channels
2.Pressing left on the joystick to change channels,press right on
　the joystick to change band
3.Single press down joystick,it enter menu and then press
　left/right on the joystick to select band and channel

OSD menu(Setting)

Single press down joystick to enter or exit below menu

Group	F
CH	01
Format	AUTO
Display	On
Backlight	M
Brightness	50
contrast	50
Saturation	50
Volume	00
Language	Eng
Reset	
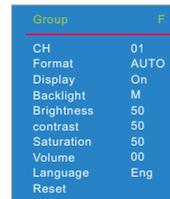
Menu items	Explanation&Operations
Group　　F	Default band is F band,,you can press left/right joystick to switch 5 bands(F、E、A、R、B）
CH　　01	Default channel is first channel,press left/right joystick to switch 8 channels (01、02、03、04、05、06、07、08)
Format　AUTO	Default video format is AUTO,press left/right joystick to switch video format (AUTO、PAL、NTSC)
Dispaly　　On	Default on screen display is ON,press left/right joystick to turn on OSD or turn off OSD
Backlight　M	Default backlight is M,press left/right joystick to select L (low backlight),M(middle backlight),H(high backlight)
Brightness　50	Default brightness is 50,press left/right joystick to change brightness(0-100)
Contrast　　50	Default brightness is 50,press left/right joystick to change brightness(0-100)
Saturation　50	Default brightness is 50,press left/right joystick to change brightness(0-100)
Volume　　00	Default brightness is 50,press left/right joystick to change brightness(0-20)
Language　Eng	Default language is English,press left/right joystick to change language(English or Chinese)
Reset	Reset

How to record video during FPV mode:
During FPV mode,single press record button to begin video recording,and single press record button to stop video recording,it will automatically save previous video as AVI file.

3).DVR mode
How to play recorded video:
Press forward/up joystick(or long press record button) to enter DVR mode,it will show previously recorded video,you can use joystick to select the video and press record button to play(and stop) the video.

→ Recorded video name

→ Recorded video time

How to delete recorded video:
After video playing,single press down joystick to enter video management mode,press left joystick to switch items,you can delete or format micro SD card(below picture 1),single press down joystick to delete single video or all video(below image 2),press record button/confirm button once you can delete single video or all videos.

Notes: During DVR working mode,default mode is video management mode for playing video or deleting video(the other mode is recording mode),press left/right joystick to switch between videos or items,press record button to confirm your choice,press backward joystick to switch between video management mode and recording mode.

If you do not want to delete any videos,press backward joystick to exit video management mode.

Picture 1   Picture 2

How to record video:
During DVR mode,press backward joystick to prepare video recording,single press record button to start video recording,and single press record button to stop video recording,it will save previous video as AVI file.

Maximum recording time
of micro SD card

4).HDMI mode
After powering on and connected to the HDMI device,press forward/up joystick to enter HD IN mode,it will display high definition video automatically,if no digital video signal input,it will show blue screen.

5.Assembly Instructions

6.Trouble Shooting

Observation	Possible Cause/Solution
No image,display is completely dark	No power supplied.Check power connections.
Poor image,dark or not enough contrast	Using joystick to adjust display(brightness, contrast etc) via setting
Lots of interference lines	-Check to see if cause is harmonic interference from 2.4GHz remote control(turn radio on/off). -Check correct frequency antenna is used -Choose a cleaner channel
Short range	-Ensure correct antennas are installed -Check for other sources of interference -Ensure transmitter has clear LOS to headset.Test in wide open area, away from any obstructions
HDMI doesn't work	-Incorrect working mode.Please switch to HDMI working mode via press forward joystick -Faulty HDMI cable/adapters -Check HDMI connections