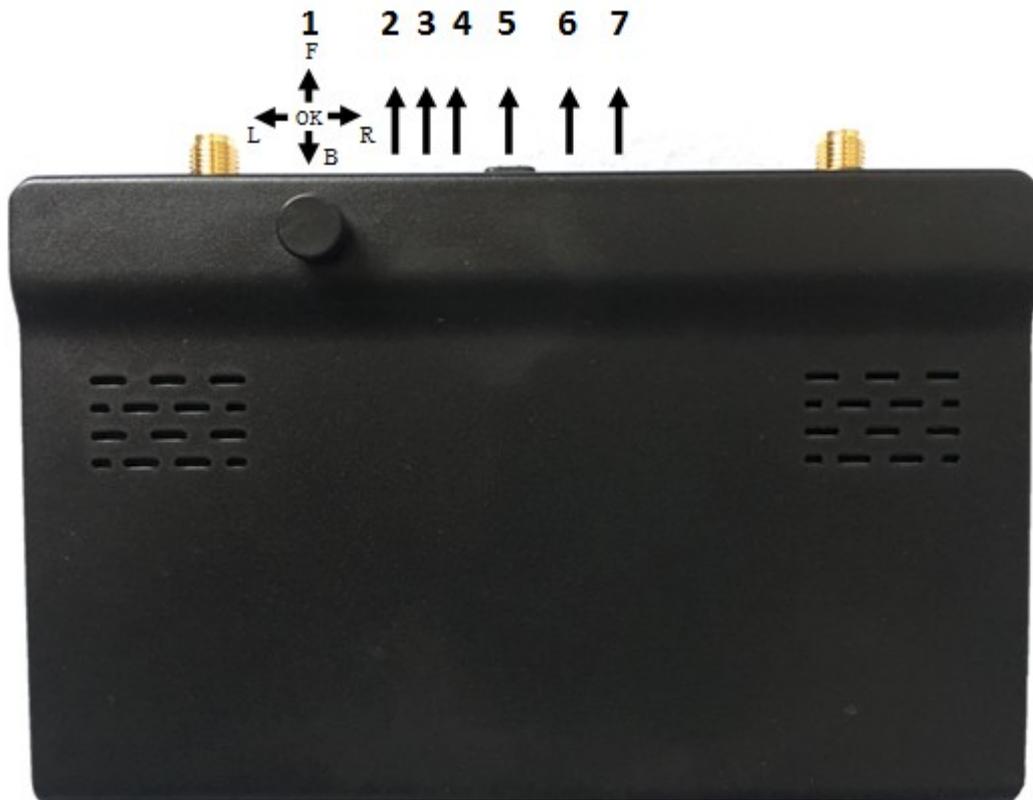# Dual Receivers

DVR - for tracking lost drones

Thanks for choosing Hawkeye!

-Hawkeye present

V3.1

Specifications and Features:

1. Multi-Function button
2. Video input
3. GND
4. Video out
5. Power button
6. Power LED
7. DC port
8. SD card slot

LED Screen	Display resolution	800×480
	Backlight	LED
	Brightness	700 Lux
	Aspect ratio	16：9 / 4:3
	Response time	<10ms
	Color system	PAL/NTSC
Input	Signal	Video （PAL/NTSC）
Specification	Monitor size	128.5mm×83.5mm×14mm
	Gross weight	120g
	5.8G Sensitivity	-94dB
Matching antenna interface	interface	RP-SMA
Video RAM	Resolutions	PAL: 720*288 NTSC: 720*240
SD Card		8-32G C10

Features:

 Specially designed for aerial photography system, Little pilot all-in-one monitor has the following features:
- ✓ **Video buffer**. Can record and playback on the monitor.
- ✓ **Dual receivers.**
- ✓ **High brightness**: 700 Lux.
- ✓ **No delay/blue /black screen.**
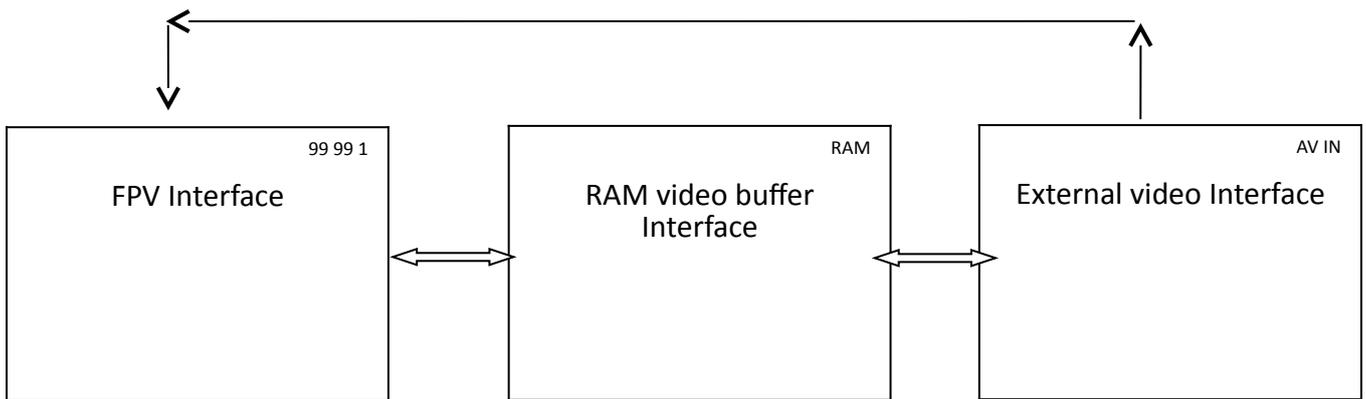- ✓ **Auto/manual channel scan**: no need for DIP switch.

Reminder: For better display/record quality, please set the camera to NTSC format.

Button Description

Button name	Function	Shortcut function
Record	Start/Stop record / confirm format	
Adjustment button(+)	Item increase	Press 2 seconds for Auto channel search in FPV; Switch interface
Adjustment button(-)	Item decrease	Grid display /Press 2sec to switch channel
Power/Menu button	Enter menu	Press 3 seconds to Power on/off

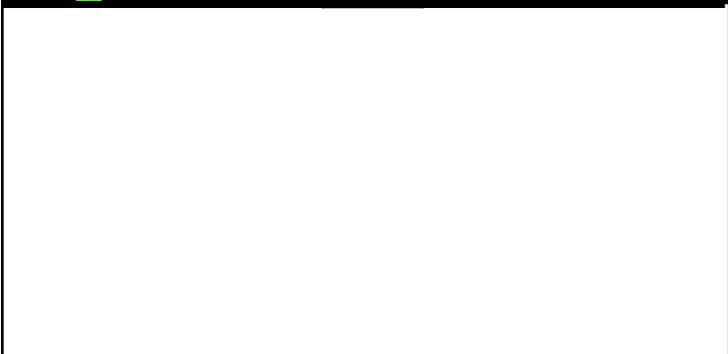Note: Three display interfaces are:

FPV interface, RAM interface(video buffer) ,External video interface.

FPV Interface 99 99 1	RAM video buffer Interface RAM	External video Interface AV IN

Press +/- buttons for 2 seconds to switch the interface .

FPV Interface :

Voltage   Time   RSSI/Channel in use

3.9 📇	00:30	25 25 1

Voltage indicator: input voltage value is displayed.

Time indicator: monitor running time is displayed.

Signal strength indicator: the strength of both the signals received by ANT1 and ANT2 is displayed.

SD card icon Green: SD card ok.

SD card icon Red: No SD card.

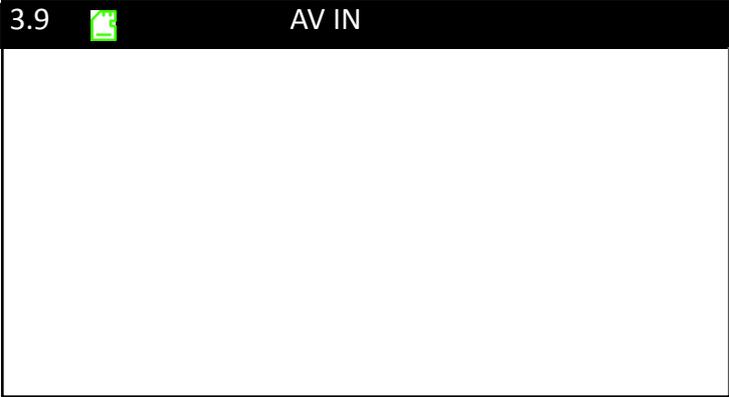**SD card icon Grey**: **Need to format SD card in the monitor. Format SD card for the first time.**

Red "R": Recording .

RAM Interface :

3.9 📇	RAM

External video Interface :

3.9		AV IN

Display Interface Setting:

BAND   A   p up menu :
FREQ   A1   5645
BRI   25
CON   25
SAT   25
DISPLAY   16:9
SHARP   05
LIGHT   10
OSD   ON
VOL TUNE   +0
LANGUAGE   ENGLISH
SPEAKER   ON
TIME
DEFAULT
FARMAT
EXIT

Frequency Group Selection:

You can select the desired frequency from 6 groups: A、B、C、D、E and F:

	A	B	C	D	E	F
1	5.645G	5.740G	5.725G	5.733G	5.658G	5.362G
2	5.665G	5.760G	5.745G	5.752G	5.695G	5.399G
3	5.865G	5.780G	5.765G	5.771G	5.732G	5.436G
4	5.705G	5.800G	5.785G	5.790G	5.769G	5.473G
5	5.885G	5.820G	5.805G	5.809G	5.806G	5.510G
6	5.905G	5.840G	5.825G	5.828G	5.843G	5.547G
7	5.925G	5.860G	5.845G	5.847G	5.880G	5.584G
8	5.945G	5.880G	5.865G	5.866G	5.917G	5.621G

Brightness:

LEFT (-), RIGHT (+) to set in the menu.Range: 1-50.

Contrast:

LEFT (-), RIGHT (+) to set in the menu.Range: 1-50.

Saturation:

LEFT (-), RIGHT (+) to set in the menu.Range: 1-50.

DISPLAY:

Select display ratio 16:9 or 4:3;.

SHARP:

Sharpness of the image. Note: the sharpness of NTSC/PAL are saved independently.

LIGHT:

Set the brightness of the LED lights：1-10.

OSD:

OSD display ON/OFF.

VOLATGE TUNE:

You can fine tune the value of the voltage display

Language:

English/Chinese.

SPEAKER:

Set speaker ON/OFF..

DEFAULT:

Reset to default settings.

FORMAT:

Format the SD card, Use -, + button to select YES/NO . Use Record/OK button to confirm.

Format the SD card at the first time.

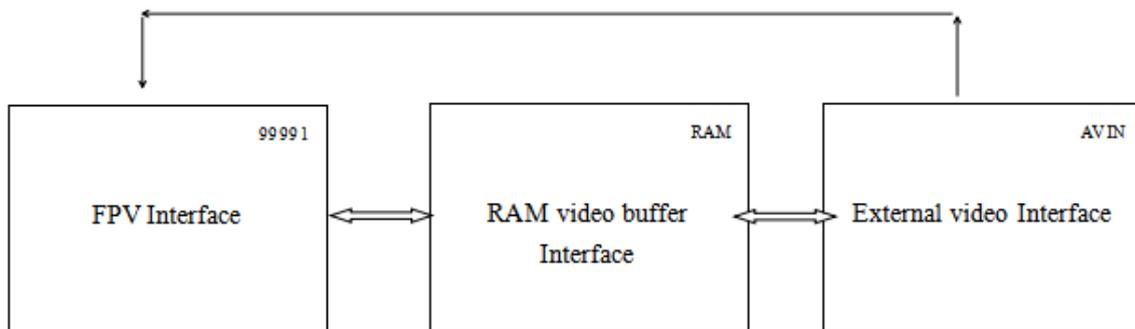Don't mixed use the SD cards with other machines.

EXIT:

Exit menu.

Auto Channel Search

Press "+ button" for 2 seconds to start auto channel search. The channel with the strongest signal will be chosen.

SEARCHING...	A1 5645

Interface switching

Press "+" or "-" button for 2 seconds to switch.

Recording：

Insert SD card, 8-32G, C10. **Note: It is recommended to equip a SD card separately and do not mix it with other equipment. Suggest Micro SD Card : Sandisk C10.**

1. Format SD card in the monitor for the first time to use.

2. Make sure you are in FPV interface.

3. Press Record / OK button, an red R will be shown:

4. Press again to stop record.

5. **Note: In Snow signal, the DVR won't record; until the video is in.**

6. When in External video interface, the monitor will record the external video.

7. Note: The video was buffer in to the SD card, when the wireless signal is not stable, it will cause frame drop.

8. **Note: How to format SD card please bar code check below. When format the SD card,the little pilot will allocate the storage of the SD card. When you check on computer, the SD card will show "full", that's normal, KEEP CALM.**

Bad SD Card:

When detected bad SD card, the Little Pilot will pop up a menu; Please power off and then change a good SD card(Sandisk C10).

Video Buffer Playback：

In FPV interface, press and hold - button for 2 seconds, the monitor switch to DVR interface . You can use Record/OK button to playback the video . Press Menu button to delete current file , Record/OK button to confirm.

Video buffer is only designed to track the lost drones.The video quality is not so

good.**We suggested: VLC Player on computer.**

Battery Charging

Connect the monitor to a phone charger via Micro USB cable. We suggested to use 1-2A chargers and turn off the monitor while charging. The Charging Status LED will turn OFF when the battery is fully charged.

FAQ:

Note：**Reset all the settings in the menu if you meet any problem.**

Not able to search channels automatically:
- Auto channel scan only functions in the FPV interface.

The video displayed is black-and-white:
- Check whether the camera output is black-and-white (some cameras might automatically shift to black-and-white in low-light conditions)

Can not power on:

- Hard Reset the machine by pressing the reset button .

No channel can be received:
- Install antennas, and move the monitor close to the 5.8 GHz transmitter.
- Connect video signal to the transmitter.

Voltage and time do not display:
- Make sure the OSD is "ON" .
- Reset the monitor.

Frame Drop in playback:
Its normal case. When the wireless signal is not stable, it will cause frame drop.Video buffer is only designed to track the lost drones.

Playback on computer:
- **Please set the player to 4:3 size.**
- **Player we suggested: VLC Player.**

Scan for new firmware:

Youtube/Facebook/Instagram *channel:*

Hawkeye Firefly Official

Youtube   **Facebook**

Instagram

Please refer to our website for manual updates: www.CNfpv.com

Our Facebook/Youtube/IG channel: Hawkeye Firefly