

Hawk eye FPV
99DB 5.8G
Sharp Vision
2 FPV
Monitor



Hawkeye 99DB 5.8G Sharp Vision 2 FPV Monitor User Manual

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Hawkeye 99DB 5.8G Sharp Vision 2 FPV Monitor



Specifications

- Model: Hawkeye Little Pilot Sharp Vision 2
- Screen Size: 7 inches
- Brightness: 1000LUX
- Features: FPV Monitor, DVR, HDMI

FAQs

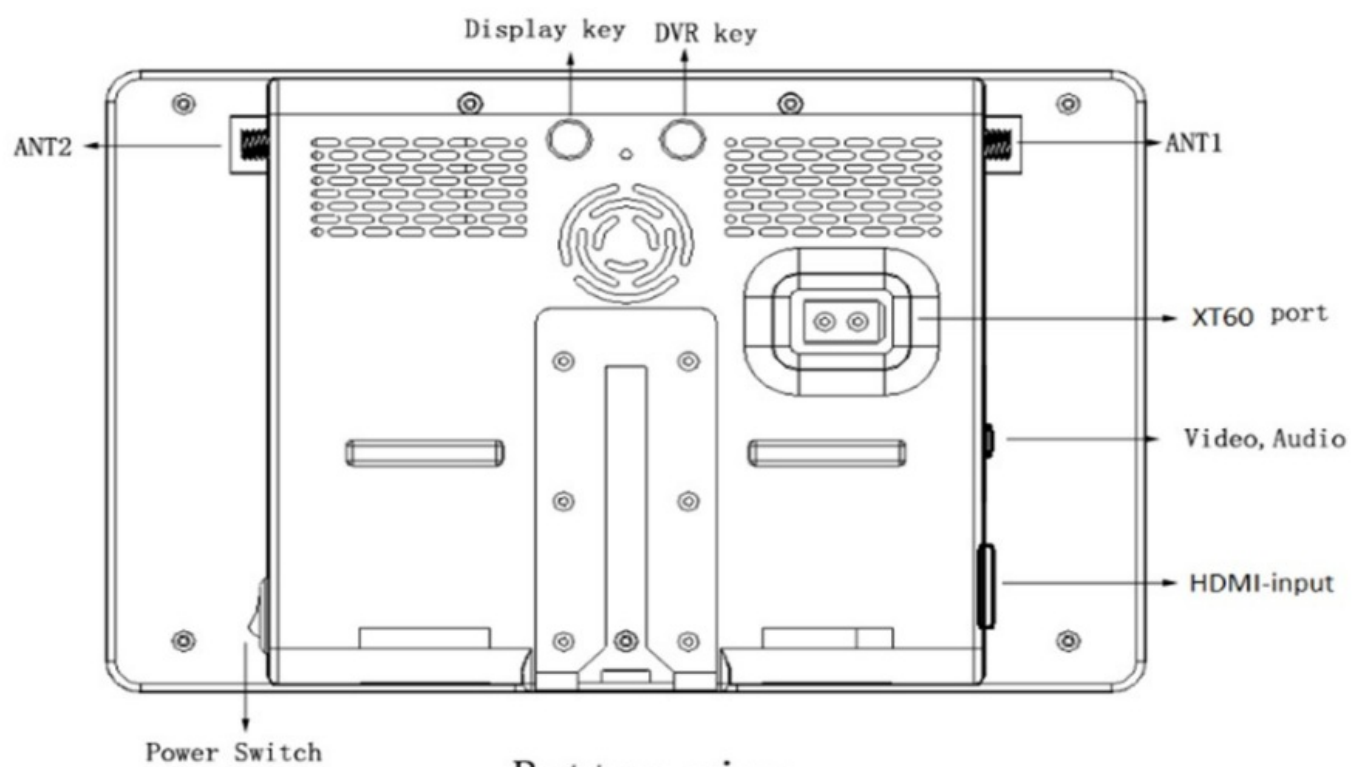
Q: How do I reset the monitor?

A: To reset the monitor, locate and press the reset button in the settings menu. This will restore the monitor to its default settings.

Q: Can I adjust the brightness of the display?

A: Yes, you can adjust the brightness, contrast, saturation, and other display settings using the control buttons provided on the monitor.

Specifications and Features



Bottom view

LED Screen	Display resolution	1024×600
	Backlight	LED
	Brightness	1000 Lux
	Aspect ratio	4 3
	Response time	10ms
	Color system	PAL/NTSC
Power Supply	Working voltage	DC 3S-6S battery
	Current	820MA @3S 410MA @6S
Input	Signal	Video PAL/NTSC HDMI
Output	Signal	Video
DVR	Resolution	D1/VGA/QVGA
	TF card supported	Max 64G
Specification	Packing size	205mm×130mm×105mm
	Monitor size	183mm×122mm×30mm
	Gross weight	0.58kg
	5.8G Sensitivity	-99dB
Matching antenna interface	interface	SMA

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Features

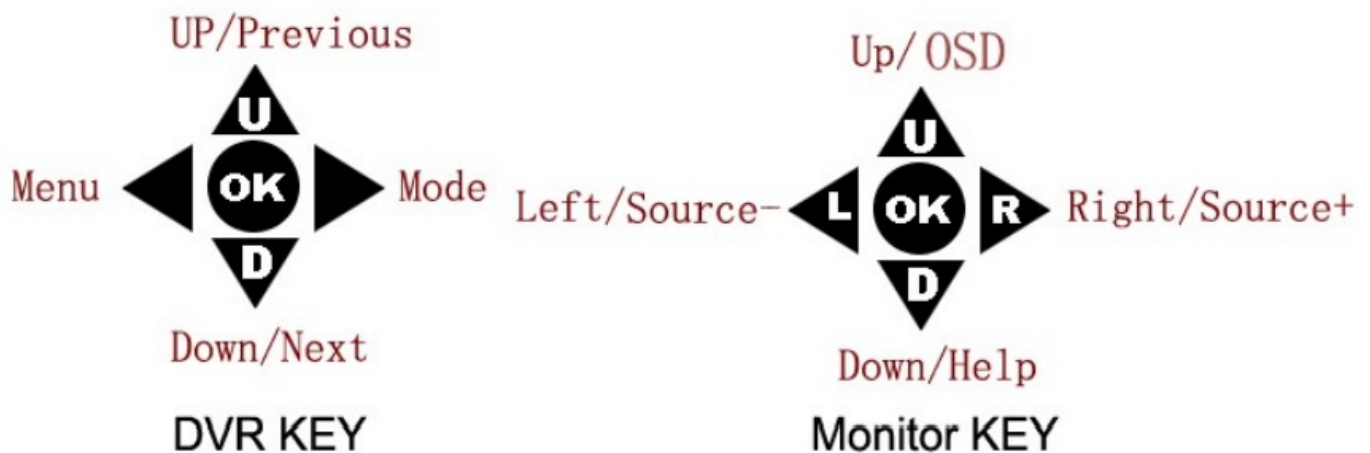
- Specially designed for aerial photography systems, the Sharp Vision II all-in-one monitor has the following

features:

- High brightness: 1000 Lux.
- Dual receiver: built-in dual receivers.
- DVR: An integrated DVR black box can run in the background for recording.
- No delay/anti blue screen/anti black screen: the built-in DVR system won't cause any delay in receiving signal; blue screen or black screen will definitely not occur.
- Auto/manual channel scan: no need for DIP switch.
- HDMI input.

Button Functions:

At the back of the monitor, there are 2 groups of buttons, one for DVR control and the other for display control.



DVR Control Buttons

	Functions
UP	Move cursor up
DOWN	Move cursor down
MENU (left button)	Pop up/exit menu/sub menu
MODE (right button)	Enter/exit video playback mode
OK	Confirm selection /play/stop

Display Control Buttons

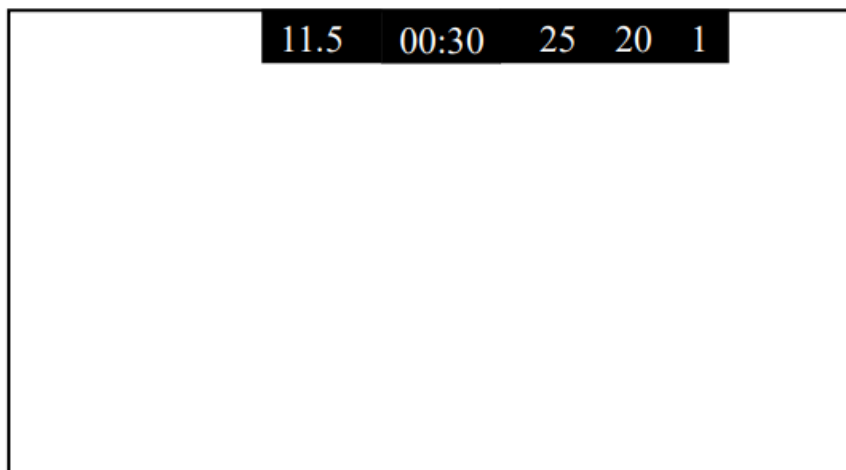
	Functions	Shortcut key
UP	Move cursor up	Hiding OSD/ Press 2 seconds for Auto channel search in FPV
DOWN	Move cursor down	Popping up the HELP menu
LEFT/ –	Adjustment key(-)	Popping up the former interface
Right/+	Adjustment key(+)	Popping up the next interface
OK	Pop up menu/confirm selections	

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Note: Four display resource types of this monitor are: FPV interface, DVR interface , External video input interface, and HDMI interface. Use the LEFT key(shortcut key) to switch the interface.

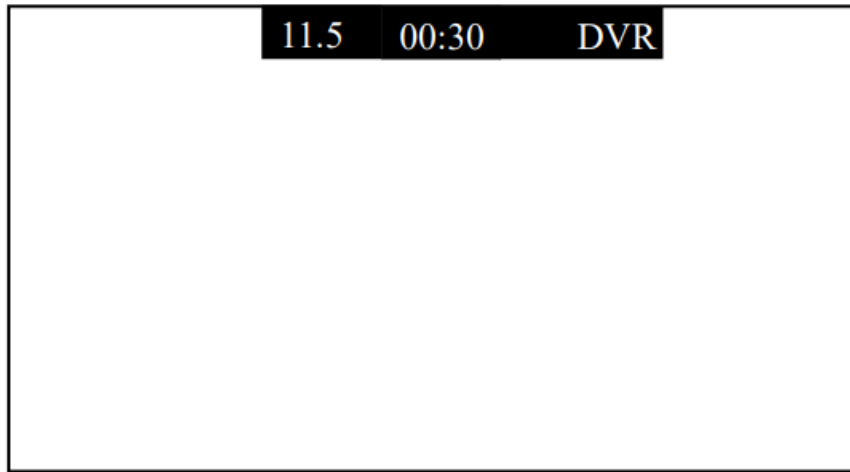
FPV Interface Descriptions

FPV interface is the default boot interface.

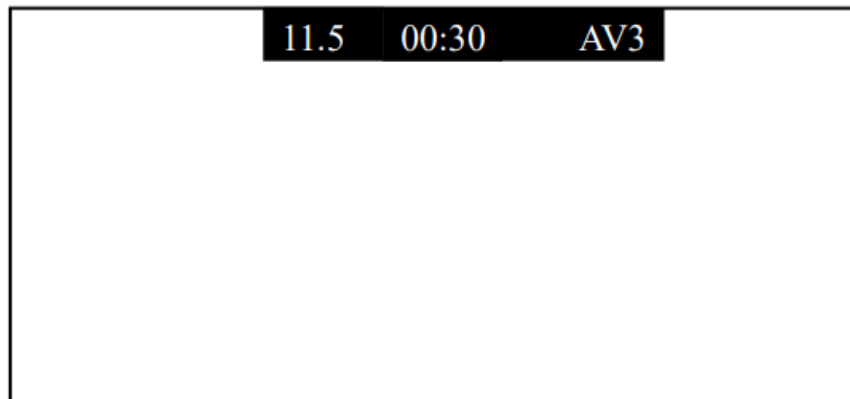


Voltage indicator: input voltage value is displayed; Display from 10V to 26 V. When the battery is low, the menu turns red and starts flashing. When the battery is too low, the blue light flashes faster and faster in the lower left corner, and the buzzer alarms. Please replace the battery immediately to avoid damage to the battery. **Recording indicator:** a red “R” flashes when the DVR is working in the background. **Time indicator:** monitor running time is displayed. **Signal strength indicator:** the strength of both the signals received by ANT1 and ANT2 is displayed.

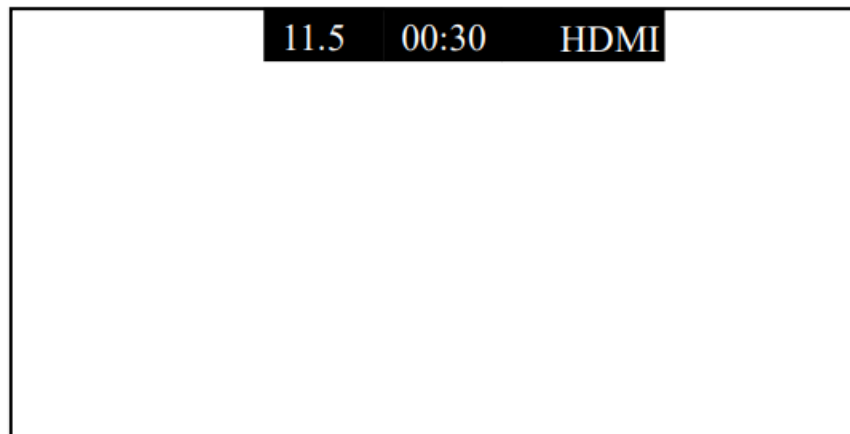
DVR Interface



External video input Interface:



HDMI Interface



HDMI input :480i/p, 576i/p, 720p, 1080i/p.

Display Interface Setting:

Press the OK button to po the menu setting:

FRQA	SCAN
FRQB	A1 5645
FRQADJ	OFF
FORMAT	AUTO
BRI	20
CON	20
SAT	20
SHARP	07
GAMA	C0
SPEAKER	ON
LIGHT	20
ZOOM	16:9
VOLADJ	+0.0V
LAN	EN
RESET	
EXIT	

Frequency Group Selection

You can manually select the desired frequency from 12 groups: A, B, E, F, R, L, J, X, U,I, K, and Z, or select the SCAN option to start the auto search. Dual 5.8G receivers cover 96 channels:

	Conventional						Extended					
	A	B	E	F	R	L	J	X	U	I	K	Z
1	5645	5740	5725	5733	5658	5362	4867	4990	5325	5333	5960	6002
2	5665	5760	5745	5752	5695	5399	4884	5020	5348	5373	5980	6028
3	5865	5780	5765	5771	5732	5436	4921	5050	5366	5413	6000	6054
4	5705	5800	5785	5790	5769	5473	4958	5080	5384	5453	6020	6080
5	5885	5820	5805	5809	5806	5510	4995	5110	5402	5493	6040	6106
6	5905	5840	5825	5828	5843	5547	5032	5140	5420	5533	6060	6132
7	5925	5860	5845	5847	5880	5584	5069	5170	5438	5573	6080	6158
8	5945	5880	5865	5866	5917	5621	5099	5200	5456	5613	6100	6184

Note: Currently, only data between 4.867G and 6.10 0G is supported

You can manually input the frequency, The specific operation steps are as **follows**

FRQA	INPUT	
FRQB	5645	BETWEEN 4867 AND 6100
FRQADJ	OFF	
FORMAT	AUTO	
BRI	20	
CON	20	
SAT	20	
SHARP	07	
GAMA	C0	
SPEAKER	20	
LIGHT	20	
ZOOM	16:9	
VOLADJ	+0.0V	
LAN	EN	
RESET		
EXIT		

Firstly, select " INPUT " in the FRQA option, then select the FRQB option, and confirm with "OK" to enter the frequency point input mode. if the current displayed frequency is 5645 and you are preparing to change it to 5665, you can use the buttons "OK", "UP", and "DOWN" to select the desired frequency. Press "OK" to select the frequency position, and press "UP" and "DOWN" to select the desired value. After all inputs are completed, press "OK" to confirm.

Note: Currently, only frequencies between 4.867G and 6.100G are supported. If not within this range, the prompt bar will turn red and the setting will not be successful. Please re-enter.

Frequency fine-tuning

FRQ	RSSI
5635	03
5637	03
5639	03
5641	03
5643	03
5645	90
5647	95
5649	03
5651	50
5653	30
5655	03

Control buttons: LEFT (-), RIGHT (+). Range At this time, the frequency points that are similar to the current frequency are displayed. According to the signal strength, you can use the up and down keys to select, and the menu key to confirm the selection.

FORMAT:

- Press the LEFT or RIGHT button to enter the system setting, 3 options are provided: AUTO/ PAL/NTSC. If AUTO is selected, the input video system will be automatically identified. System setting will cause display failure.

Brightness:

- Control buttons: LEFT (-), RIGHT (+).Range: 1-40.

Contrast:

- Control buttons: LEFT (-), RIGHT (+).Range: 1-40.

Saturation:

- Control buttons: LEFT (-), RIGHT (+).Range: 1-40.

Share:

- Control buttons: LEFT (-), RIGHT (+).Range: 1-15.

Latitude:

- Control buttons: LEFT (-), RIGHT (+).Range: C1-C3.

SPEAKER:

- Adjust the SPEAKER, ON/ OFF.

Blacklight:

- Adjust LED light brightness, Auto, High, and Low.

ZOOM:

- Press the LEFT or RIGHT button to enter the system setting, 16:9 / 4:3

VOLADJ:

- Control buttons: LEFT (-), RIGHT (+).Range: -0.5 to +0.5

LED:

- Adjust the power indicator light, ON/ OFF.

Language:

- Control buttons: LEFT (-), RIGHT (+).Options: Chinese/English.

Reset:

- Reset values to default

DVR Interface Descriptions

Note Please back up your data in the TF card; when the TF card is used for the first time, it will be auto-formatted

Pressing the RIGHT button can switch the FPV interface to DVR interface and pressing the LEFT button can switch back to the FPV interface.

Video Playback

First, switch to the DVR interface, pressing the MODE (RIGHT) button can start video playback. Press UP or DOWN button to select a desired file, then press OK button to start playing it.

	Functions
UP	Move cursor up
DOWN	Move cursor down
MENU (LEFT)	Pop up/exit menu/sub menu
MODE (RIGHT)	Enter/exit video playback mode
OK	Confirm selection /play/stop

DVR can run front-end or back-end. In any interface except the DVR setting and video playback mode, pressing an OK button (middle one of the DVR control group) can start recording in the background, without affecting FPV use.

Recording Settings:

Press the MENU button to select the sub-menu:



Resolution:

D1(720×576 PAL 720×480 NTSC),VGA(640×480) QVGA 320×240)



Cycle Recording

If Cycle Recording is selected, the latest videos recorded will cover the earliest ones when the TF card is full.
"OFF": if the Cycle Recording function is closed, video files will not be cut into small segments; If you select 3 min to 10 min, Cycle Recording function is open then; the length of each video segment corresponds to the selected value.



Motion Detection:

If Motion Detection is selected, the DVR will automatically start recording according to its internal algorithm when any motion is detected.



Motion Detection Sensitivity:

Motion Detection Sensitivity can be adjusted by 3 levels: High/Medium/Low; the higher level is selected, the more easily the DVR is triggered to record.



Date Stamp:

Select ON/OFF to decide whether the date and time will be shown at the bottom of the video images.



Audio Acquisition:

Select ON/Off to decide whether sounds can be recorded in real-time into video files.



Image Quality:

Image definition and video file size can be adjusted by 3 levels. Higher imagequality results in higher image definition and larger video file; When resolution D1(720×576 PAL) is selected, the file sizes of videos recorded at different Image Quality options are as follows:

- Best: 1.7G/h
- Good: 1.2G/h
- Standard: 800M/h



Auto power-up recording:

- Select YES/ON to decide whether videos need to be auto-recorded when powered up.

Advanced Settings:

- Press the MENU button twice will pop up the Advanced Setting options including Format, Date/Time, and Language.



Format:

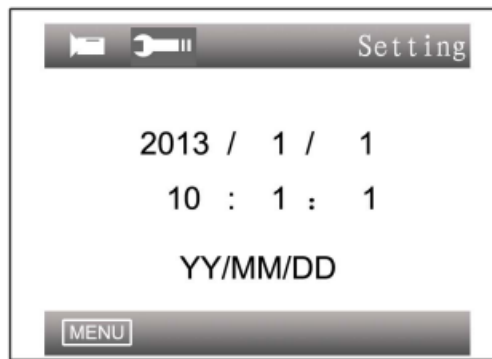
- Enter Advanced Settings, and select the Format option to format the TF card. In order to optimize the file system, DVR will format the TF card, if it's used for the first time; Please back up your data in TF Card.

Note: all files stored in the TF card will be deleted after the card is formatted.



Date/Time:

- Enter Advanced Settings → select the Date/Time option → press the UP/DOWN button to select a desired date/time → press the MENU button to exit.



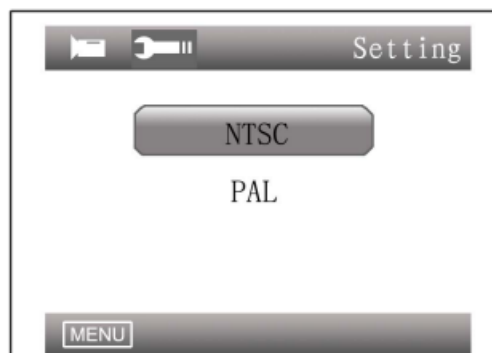
Language:

- Enter Advanced Settings → select Language option → press UP/DOWN button to select a desired language from 8 languages provided → press MENU button to exit.



TV Mode:

- Video output system can be selected and the video input system will be automatically identified. Select the system according to which country you are in. Keep it in PAL, do not change



Default Settings:

- This option leads back to the factory default settings.



Quick Access Descriptions

In any mode except the menu setting, Monitor keys can be used as shortcuts described as follows:

Interface Switch:

- Pressing the RIGHT/LEFT button can switch between FPV, DVR, external video interfaces, and HDMI interfaces.

Show/Hide Indication Windows:

- In any interface, pressing the UP button (of the display control group) once can hide the indication windows, and pressing UP again can show them again.

Show Help Menu:

- In any interface, pressing a DOWN button (of the display control group) can show the Help menu, pressing DOWN again can make it disappear.

The power indicator light:

- When the system starts, if the power indicator is on, it indicates that the power is on. In any of the FPV, DVR, and external video interfaces, when recording, the LED will flash. When the battery is too low and the system alarms, the LED will flash.



Packing and Accessories

Size and Weight

Specification	Packing size	205mm×130mm×105mm
	Gross weight dual receiver + DVR	0.58kg

Accessories

Accessories	3.5mm connector cable	1
	5.8G antenna	2
	Bandage	2

3.5mm cable Interface descriptions	Yellow	Video output
	White	Video input
	Red	Audio output

FAQs

Not able to search channels automatically:

- Auto channel scan only functions in the FPV interface. In the DVR interface, users should search channels manually.

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 start after being connected to power:

- First fully charge the battery, and make sure its discharge current at least reaches 1.4 Check whether the battery power is enough.
- Check whether the power source is correctly connected to the positive

No channel can be received:

- Install antennas, and move the monitor close to the 5.8 GHz transmitter.
- Connect the video signal to the transmitter.
- Check whether the channel provided by the transmitter is one of those listed in the channels-able-to-be-received-table; check with other channels

NOTE:

- Check on www.CNfpv.com for new firmware/Manual updates.

For more information please check our YouTube/Facebook/Instagram channel

Youtube


Facebook



Instagram



Documents / Resources

	<p>Hawkeye 99DB 5.8G Sharp Vision 2 FPV Monitor [pdf] User Manual</p> <p>99DB 5.8G Sharp Vision 2 FPV Monitor, 99DB, 5.8G Sharp Vision 2 FPV Monitor, Vision 2 FPV Monitor, FPV Monitor, Monitor</p>
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References

- [Hawkeye FPV Monitors and Cameras](#) [Hawkeye FPV Monitors and Cameras](#)
- [User Manual](#)

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