



# FPV Monitor

7" HD Auto-Scan Monitor

## Instruction Manual

Please read before use.



This monitor uses the latest 5.8GHz technology and is ideal for use in conjunction with 2.4GHz/355MHz R/C systems.

# Ares Z Line FPV Monitor

Enjoy the exciting photo and video opportunities that the Ares Z Line FPV monitor allows and transmit your recordings wirelessly, safely and live over a long distance.

Bristling with the latest technology this cutting edge 7" 5.8GHz diversity screen is perfect for both the newcomer and regular FPV flyer. Using two integrated 5.8GHz receivers, the monitor's state-of-the-art electronics filter the best available signal and provide a sharp and interference-free live picture. Choose between 3 bands that each offer 8 channels.

## Features

1. Dual signal scan for automated reception optimization
2. DNR (Digital Noise Reduction) Function
3. Auto Scan Mode

## Safety Advice

### **WARNING!**

To prevent damage to your unit please note the following:

- Do not expose to water, rain or moisture. Avoid contact with all other liquids.
- Only use in conjunction with recommended accessories.
- Do not disassemble. The internal parts of this unit do not require maintenance.
- Use only qualified personnel to carry out repairs.

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# Contents

Please check that all parts are present and correct before using the monitor:

- Ares Z Line 7" High Definition FPV monitor including Li-Po battery
- Sunshield
- 2 x 5.8GHz antenna
- 12V DC cable with BEC plug
- 12V DC cable with BEC port
- 2 x AV out cable
- Instruction manual
- Battery Charge Adapter

In addition to the above we recommend that you purchase a camera tripod with standard screw-fix mount.



# Preparing your monitor

## WARNING:

Do not power the monitor on before installing the antennas as damage may occur that is not covered by the warranty.

1. Begin by attaching the two 5.8GHz antennas to the appropriate threads and ensure they are screwed in firmly. Power for the unit is supplied by an internal Li-Po battery which must be fully charged before use.
2. To activate the screen, press and hold the On/Off button (on the right side) for 3 seconds. The blue LED will illuminate.
3. Your monitor will now automatically scan the channels for a video signal.

## Charging the removable Li-Po battery

Charge the removable battery using the optional Power Adapter. Connect the Adapter to a power point and then to the 'DC IN' socket of your monitor. During charging the right LED (next to the Power Button) flashes red. The LED shuts off when charging is complete. You may also charge the removable battery via an external Li-Po battery. This battery should be at least 7.4 volts with a capacity of 2600mAh.

Please note that damages resulting from improper use or connection of an unsuitable power source are not covered under warranty. Carry out charging operations carefully and with full knowledge of the battery chemistry, the correct charging regime, and potential risks involved. Make sure that the power source used has sufficient capacity to undertake the task.

Note that the LiPo battery is replaceable. To remove it, turn the screen over, pull down the locking catch (located below the battery), then lift the battery block by inserting a fingertip in the notch to the right of the lock. To re-connect the battery, begin by inserting it towards the gold contacts and reverse the process.

## Fitting the sun shield

Fit the sunshield to use the screen in bright light, without limitations. Simply clip it around the screen using the associated tabs and notches.



A standard 1/4-20 mounting thread is located on the base of the monitor. Use this to attach the screen to a regular quick-release tripod mounting plate.

## Connection ports



## HD Port

The monitor features an HD1.3 'IN' port. This enables you to play back video footage from an HD source.

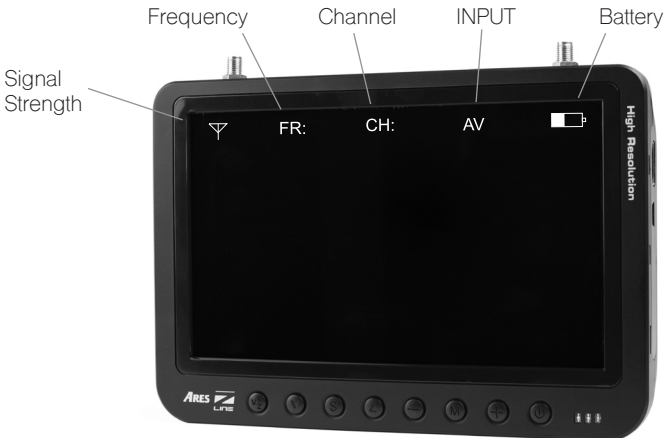
## USB Port

Firmware updates can be uploaded via the USB Port. Please visit our homepage to check firmware updates. Note that the USB Port is not a power supply.

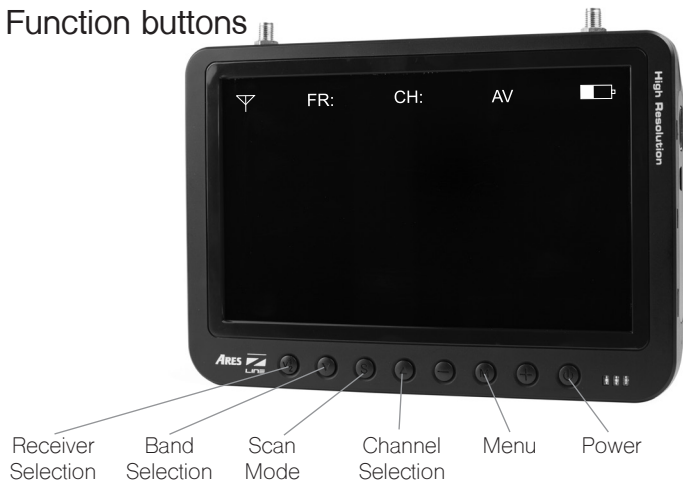


## Display icons

Alterations to both the band and frequency will be shown on the display. If the battery indicator appears empty (☐), the internal Li-Po will need to be recharged.



## Function buttons



**Receiver selection** Choose between receiver 1 and 2

**Band selection** Choose between bands A, B and F

**Scan mode** The screen automatically scans (Auto Scan Mode) all bands and channels

**Channel selection** Switch between channels 1–8

**Minus (-)** Reduces the brightness and the marked menu setting

**Menu** Press once to make the icons visible. Double press to enter the main menu

**Plus (+)** Increases the brightness and the marked menu setting

**Power (On/Off)** Press and hold for 3 seconds to switch on and activate the monitor



## **Menu structure**

Double press the MENU button to enter the Menu. By pressing the MENU button, you can scroll through the various menu steps.

To adjust a setting, press the Minus - and Plus + buttons.

NOTE: If no buttons are pressed within 5 seconds the menu will automatically close.

### **Brightness**

During live transmission this can also be adjusted by pressing the -/+ buttons.

### **Contrast**

During live transmission this can also be adjusted by pressing the -/+ buttons.

### **Colour**

During live transmission this can also be adjusted by pressing the -/+ buttons.

### **Volume**

During live transmission this can also be adjusted by pressing the -/+ buttons.

### **RF Select**

Manual selection of the reception source

### **Mode**

Choose between 16:9 or 4:3 formats

### **Rotation**

Image

### **Language**

See available languages in the specification table

### **Reset**

Reset to factory default settings

# Specification

Display size:	7"/178mm
Total size:	184 x 126 x 28mm
Resolution:	1024 x 600 pixels
Type:	TFT LCD monitor; LED backlight
Brightness:	500 cd/m <sup>2</sup>
Contrast:	500:1
Mounting type:	1/4-20 tripod mount
Frequency:	ISM 5.8GHz

## Ports:

RF1 AV OUT (Video, mono audio output)

RF2 AV OUT (Video, mono audio output)

DIV AV OUT (Video, mono audio output)

AV IN (Video)

USB Update port

HD1.3 IN

**Operating voltage:** DC IN; 7-22.2V

**Battery:** 1800mAh Li-Po

**Weight:** 480g

**Speakers:** 8Ω/1Wx2

**Operating temperature:** 0°C~ +50°C (32°-122°F)

## Languages:

English, French, German, Spanish, Portuguese, Japanese, Russian, Italian, Dutch and Chinese

## Channels:

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
FR1 (A)	5865M	5845M	5825M	5805M	5785M	5765M	5765M	5725M
FR2 (B)	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M
FR3 (F)	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5860M

## HD port/playback

To play back video footage from a HD source the screen has a HD1.3 "IN" port. The service and features an HD1.3 'IN' port.

## Other accessories in the Z Line FPV range

Part no.	Product
AZSZ1010	25mW 5.8GHz 22ch FPV transmitter
AZSZ1011	200mW 5.8GHz 24ch FPV transmitter
AZSZ1013	600mW 5.8GHz 24ch FPV transmitter w/digital read-out
AZSZ1014	1500mW 5.8GHz 24ch FPV transmitter
AZSZ1020	7" Monitor 32ch 5.8GHz receiver w/diversity
AZSZ1022	9" HD Auto-Scan Monitor 32ch 5.8GHz receiver w/diversity
AZSZ1030	5.8GHz Cloverleaf Antenna (TX and RX)
AZSZ1031	5.8GHz Patch Antenna (RX)
AZSZ1032	Monitor Battery 7.4V, 1800mA
AZSZ1033	Transmitter to Monitor holder
AZSZ1034	Monitor Battery Charge Adapter
AZSZ1035	AC Monitor Charger
AZSZ1035UK	AC Monitor Charger: UK plug
AZSZ1035AU	AC Monitor Charger: AU plug

Find more accessories on our homepage [www.Ares-RC.com](http://www.Ares-RC.com) or check your nearest dealer.

# Regional Service and Support

## USA Warranty Information

### 30 Day Limited Warranty

General Disclaimer: This item is to be free of manufacture defects at time of purchase. This warranty does not cover breakage due to abuse, improper break-in, improper setup, or improper operation.

We at Ares RC have made every effort in component design, material selection and assembly to make our products as durable as possible. Ares Z Line products are covered under warranty only against manufacturer's defect in materials, workmanship or assembly when it is new (before being used).

If you believe a defect in materials, workmanship or assembly was not apparent when the product was new and only became evident after the product was used, then please contact your local HobbyTown® to apply for warranty service. You must provide your original sales receipt verifying the proof-of purchase and date thereof.

Provided warranty conditions have been met, the components that are found to be defective, incorrectly made, or incorrectly assembled within the warranty coverage time period may be repaired or replaced under the sole discretion of HobbyTown®. In the event that your product needs a repair or a replacement part that is not covered by this warranty, your local HobbyTown® dealer can assist you with obtaining the genuine replacement parts and/or accessories to service your Ares Z Line product.

If you purchased your Ares Z Line product from a HobbyTown® internet site not affiliated with a local store, please consult that site for its service policies.

Distributed in the US by:  
Firelands Customer Service/Product Support  
1133 Libra Drive, Lincoln, NE 68512  
www.firelandsgroup.com  
1-800-205-6773  
customerservice@firelandsgroup.com

## Australia Warranty Information

### Ares Z Line FPV Monitor 60 Day Warranty

Model Engines (Aust.) Pty. Ltd. warrants this product to be free from defects in materials or workmanship for 60 days from the date of purchase and will repair, replace or refund the purchase should the product prove to be defective.

This warranty does not apply to any unit or system or component which has been dropped, damaged in a crash, improperly installed, assembled, handled or abused.

Model Engines (Aust.) Pty. Ltd. reserves the right to void the warranty if the product has been altered or modified, has had a foreign part added, has been misused or not used for the purpose for which it was designed, has been used near or in salt water, has been water damaged, or if the damage has been caused by the customer's use of the product.

Under no circumstances does Model Engines (Aust.) Pty. Ltd. warrant nor will the consumer be entitled to consequential or incidental damages. Model Engines (Aust.) Pty. Ltd. assumes no responsibility for any other damage, inconvenience or other claims whatsoever.

## Lodging a Claim

To lodge a claim, present the goods to your place of purchase (retailer where you bought the product) with your original purchase receipt and a written explanation of the defect.

The place of purchase (retailer where you bought the product) will then contact Model Engines (Aust.) Pty. Ltd. for a Return Authority number and will return the item for warranty assessment to Model Engines (Aust.) Pty. Ltd.. Items delivered to Model Engines (Aust.) Pty. Ltd. for warranty assessment without a Return Authority number will be returned to sender.

The warranty process may take up to 14 business days from the date of receipt. Model Engines (Aust.) Pty. Ltd. must assess each item and if warranty applies must repair or replace the item at its discretion and return it to the place of purchase (retailer where you bought the product).

Goods presented for warranty may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

If the product is proved to be defective the cost and expenses relating to the delivery of the goods to Model Engines (Aust.) Pty. Ltd., will be borne by Model Engines (Aust.) Pty. Ltd..

The benefits of this warranty are in addition to other rights and remedies of the customer under any law to which this warranty relates.

Our goods come with guarantees that cannot be excluded under the Australian consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty information relates to goods supplied on a wholesale basis by Model Engines (Aust.) Pty. Ltd. to Australian Retailers. The warranty complies with Australian regulatory requirements and supersedes all warranty information from the original manufacturer.

Distributed in Australia by:

Model Engines (Aust.) Pty. Ltd.,  
Unit 1, 158-168 Browns Road,  
Noble Park,  
Victoria,  
3174,  
Australia.  
[www.modelengines.com.au](http://www.modelengines.com.au)  
Ph (03) 8793 5555 [warranties@modelengines.com.au](mailto:warranties@modelengines.com.au)

## UK Warranty Information

This product is covered by the current statutory guarantee regulations. If you wish to make a warranty claim, please contact the model shop where you originally purchased the product from. You should also present your proof of purchase.

The guarantee does not cover faults or damage caused by:

Incorrect handling or operation

The use of incompatible accessories

Modification or unauthorised repairs

Accidental or deliberate damage

Normal wear and tear

Using the product outside of its stated specification

J Perkins accepts no liability for loss, damage or costs which are incurred due to the incorrect or incompetent use of the product.

## CE Conformity Declaration

This device has been tested in accordance with the relevant harmonised European directives. This product's design fulfills the protective aims of the European Community relating to the safe operation of this equipment.

For a copy of the Declaration of Conformity, please visit [www.ares-rc.com/support](http://www.ares-rc.com/support)

## Disposal

Electrical equipment marked with the crossed out wheelee bin symbol must not be disposed of in household waste, but must be taken to a specialist disposal or recycling system. In EU member countries, electrical equipment must not be discarded via the normal domestic refuse channels (WEEE – Waste Electrical and Electronic Equipment Directive 2002/96/EG). You should take unwanted electrical equipment to your nearest local authority waste collection point or recycling centre.

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Made in China