



VECTOR FS

FULL SPECTRUM GUITAR CABINET/MONITOR



OWNERS MANUAL

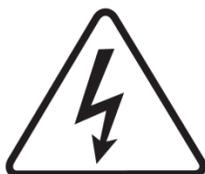
IMPORTANT SAFETY INSTRUCTIONS

Please read the following very carefully before operating this unit

- Read ALL instructions carefully before using this unit. Keep these instructions for future reference. Heed all warnings and follow all instructions.
- Do not use this unit near water, in the rain, or where there is moisture. If this warning is ignored a serious electrical shock or death may occur.
- Do not attempt to service this unit. No user serviceable parts inside. Refer servicing to qualified, ISP approved personnel. Servicing is required when the unit is damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not block any ventilation openings on the unit. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus that produces heat.
- Do not defeat the grounding pin on the power plug. A grounding type plug has two blades and a third grounding prong. If the grounded plug does not fit in your outlet, please consult an electrician for replacement of the outlet, which may be obsolete.
- Care should be taken to avoid any foreign objects or liquid into this unit. Avoid exposure of this equipment to dripping or splashing and ensure that no objects filled with liquid, such as vases, are placed on the equipment.
- Only use accessories or attachments that are specified by the manufacturer.
- Use only with the caster attachment, stand, connecting bracket, or table specified by the manufacturer, or sold as an accessory with the unit. When a castor attachment is used, use caution when moving the cart/apparatus combination to avoid injury from tipping over.
- To completely disconnect this unit from the AC mains, disconnect the power supply cord plug from the AC receptacle.
- This active speaker system has internal power amplifier(s) and a heatsink located internally with cooling ports on the back of the unit for airflow over the heatsink. Care should be taken to avoid placing this active speaker in a location where the airflow over the heatsink is impeded and proper cooling of the internal amplifiers is not provided. Avoid placing this system close to other heat sources. The external heatsink may reach high temperatures under normal use. Do not block the external heatsink with any other object. Make certain there is proper ventilation for the external heatsink when in use.
- Do not drive the unit into excessive heavy distortion for an extended period of time to avoid premature speaker failure.
- Failure to follow these instructions may void the warranty.



THIS UNIT CONTAINS POTENTIALLY LETHAL VOLTAGES. TO PREVENT ELECTRIC SHOCK OR HAZED, DO NOT REMOVE THE POWER AMPLIFIER MODULE, INPUT PANEL OR AC INPUT PANEL. NO UER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED ISP TECHNOLOGIES SERVICE PERSONNELL.



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.

POWER REQUIREMENTS

This unit requires connection to a 120 volt AC outlet. Do not cut or disconnect the ground pin on the power cord. Do not attempt to connect this unit to any power source other than the specified 120VAC.

Caution: Exposure to extremely high noise levels can cause permanent hearing loss.

The Vector FS is capable of producing in excess of 126db SPL at 1 meter. Continued exposure to noise levels in excess of 90db may cause permanent hearing loss. Below is a chart of the OSHA (Occupational Safety & Health Administration) regulations for Occupational Noise Exposure. Please note: OSHA requires hearing protection for any work environment when the sound levels exceed those shown in Table G-16 when measured on the A scale of a standard sound level meter at slow response.

TABLE G-16- PERMISSIBLE NOISE EXPOSURES	
Duration per day, hours	Sound level dBA slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4	115

INTRODUCTION

Thank you for your purchase of the Vector FS Guitar cabinet/monitor. With the Vector FS™ the guitarist can hear exactly the same signal that is coming from the Front of House sound system on stage. The Vector FS has two separate inputs so the players can feed the speaker simulated output to one input and mix a second monitor signal from FOH eliminating the need for a second stage monitor speaker. The Vector FS can be used on the floor as a monitor or placed on a pole for vertical mount applications and includes a selectable response for either floor or pole mount applications. When used as a floor monitor, the Vector FS has a 40 degree tilt angle.

The tuned Vector FS cabinet is based on a high performance 12 inch Neo woofer with a demodulation ring for improved midrange clarity and lower distortion. Also, a 1 x 1.75 inch poly diaphragm high frequency compression driver on a 60 x 80 advanced waveguide is incorporated for accurate HF response.

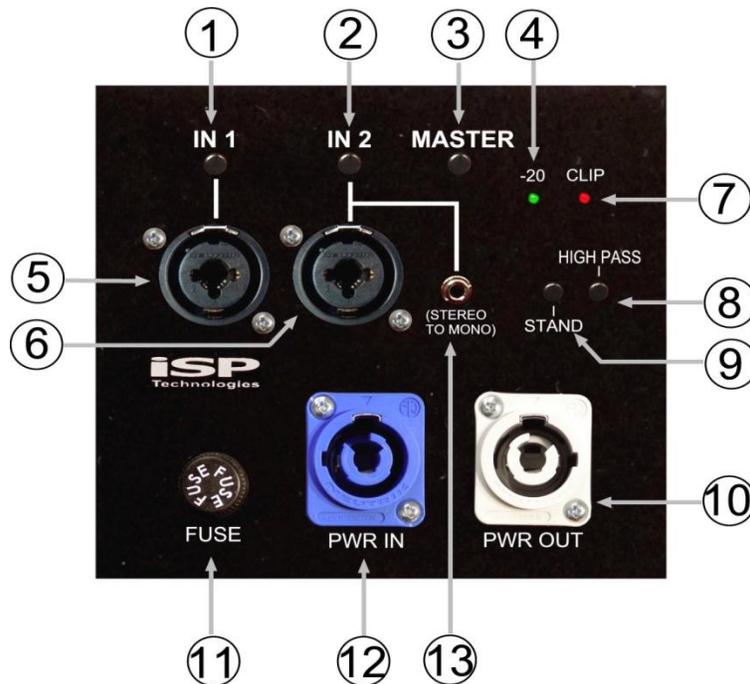
All of the components are powered by a dual channel, 400 watt ISP Technologies patented D-CAT™ power amplifier that has been precision tuned and equalized for flat, Full Spectrum Audio. The Vector FS can deliver up to 126db SPL peak output level for even the most demanding stage performance. While the Vector FS is the perfect partner of the ISP Technologies Theta Pro DSP™ floor guitar system, it will also function flawlessly with other guitar systems.

The Vector FS is spectrally balanced, and will keep that balance even when on stage when you are driving it harder to compensate for the SPL level of everyone else's gear, crowd noise, etc. It also uses a Faital 12 inch woofer with a demodulation ring to provide better midrange and a more linear performance with lower distortion.

The Vector FS has two switches on the back panel, one for STAND vs Floor Mount and one for HIGH PASS. The STAND setting has been equalized to compensate for the difference in Bass that occurs when the speaker is in the air vs on the floor. This will provide the same flat response when using the Vector FS on a stand. Note that pushing this switch in when the Vector FS is on the floor will increase the amount of low and mid bass and will not provide a true flat response for your stage monitor application.

The HIGH PASS is provided to high pass the Vector FS when using a subwoofer as part of your rig. This HIGH PASS is a 4th order high pass filter with a corner frequency at 85Hz. Push this switch IN when using an external subwoofer.

REAR PANEL DESCRIPTION



1. Level control for channel 1 input, mixes the level of channel 1 in the output.
2. Level control for channel 2 input, mixes the level of channel 2 in the output.
3. Master Level control, sets the overall master level of the Vector FS
4. -20db LED this LED indicates when the signal is 20db below maximum output.
5. Channel 1 input / Combo Jack will accept either balanced XLR or ¼ inch plugs
6. Channel 2 input / Combo Jack will accept either balanced XLR or ¼ inch plugs
7. Clip LED this LED will flash when signal peaks are at the point of clipping
8. HIGH PASS Switch, when switched in will high pass the Vector FS for use with an external subwoofer.
9. STAND Switch, when switched in the Vector FS will be equalized for use on a stand vs floor mounted.
10. Power OUT, can be used to jump AC power between two Vector FS cabinets using a power-con connection cable.
11. Fuse, replace only with the same rating fuse if replacement is required.
12. Power IN, connect the supplied AC power cord to this connector.
13. 1/8 input jack for connection of ipod, smartphone or other audio device. NOTE: use input Combo Jack 2 OR this 1/8 input jack not both simultaneously.

SPECIFICATIONS

POWER:	400watts RMS
SPEAKERS:	12" Faital Neo Woofer, 1.75" Celestion Compression Driver
WOOFER:	12 inch Neo Woofer
RESPONSE:	50 Hz - 20kHz
DIMENSIONS:	22"H X 18"W X 14.5"D
WEIGHT:	60 lbs.
CABINET:	15mm Baltic Birch with Polyuera Spray on Finish

WARRANTY AND SERVICE

The Internal Circuitry is fully guaranteed to be free of defects under normal use and service for a period of three years from the date of purchase. The Speakers and Cabinet that are used in this product are fully guaranteed to be free of defects under normal use and service for a period of three years.

Any damage resulting from the misuse or the failure to follow the precautions and instructions will void the warranty.

In the event that the unit needs to be repaired. Please return the unit to ISP Technologies directly. Simply repack the unit, send a copy of the original receipt, a note stating the problem, and send it to:

ISP Technologies, LLC
5479 Perry Drive, Suite B
Waterford, MI 48329
Attn: Repair Dept.

All shipping charges must be fully prepaid.

ISP will not be responsible for any damages incurred in shipping of any unit. Any claim will need to be settled with the shipping company.

The warranty will be voided if the serial number has been tampered with in any way. The warranty card must also be filled out and returned in order to activate the warranty.

Should you have any questions for the repair department prior to returning the product please call 1-(248)-673-7790

NOTE: This Product may be covered under one or more of the following patents or patents pending: 7,035,413; 6,944,305; 6,931,134; 6,831,514; 6,091,013



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