



VECTOR FS8



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POWERED FULL SPECTRUM GUITAR CABINET / MONITOR

OWNER MANUAL

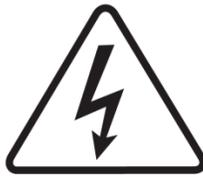
IMPORTANT SAFETY INSTRUCTIONS

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 USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED ISP TECHNOLOGIES SERVICE PERSONNEL.



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 an AC volt AC outlet. Do not cut or disconnect the ground pin on the power cord. The VECTOR FS8 has an internal universal switch mode power supply and will run with a mains voltage between 100 and 240 volts AC.

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

The Vector FS8 is capable of producing in excess of 122db 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 FS8 Guitar cabinet/monitor. With the Vector FS8™ the guitarist can hear exactly the same signal that is coming from the Front of House sound system on stage. The Vector FS8 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 FS8 can be used on the floor as a monitor in front or behind the player. The Vector FS8 has a 40 degree tilt angle. The FS8 can also be switched into a standard powered guitar cabinet mode allowing use with non-speaker simulated rigs like a pedal board.

The Vector FS8 cabinet is based on a high performance 8 inch woofer designed for excellent low-mid response. Also, a 1 inch silk dome tweeter high frequency driver on a conical horn waveguide is incorporated for accurate HF response. The silk dome tweeter is mounted above the woofer providing a coaxial response pattern.

All of the components are powered by a dual channel, 175 watt RMS 350 watt Peak ISP Technologies patented DAA™ (Dynamic Adaptive Amplifier) power amplifier that has been precision tuned and equalized for flat, Full Spectrum Audio. The Vector FS8 can deliver up to 122db SPL peak output level for even the most demanding stage performance. While the Vector FS8 is the perfect partner of the ISP Technologies Theta Pro DSP™ floor guitar system, it will also function flawlessly with virtually any other line level guitar system.

The Vector FS8 is spectrally balanced, and will keep that balance even when on stage even when you are driving it harder to compensate for the SPL level of everyone else's gear, crowd noise etc.

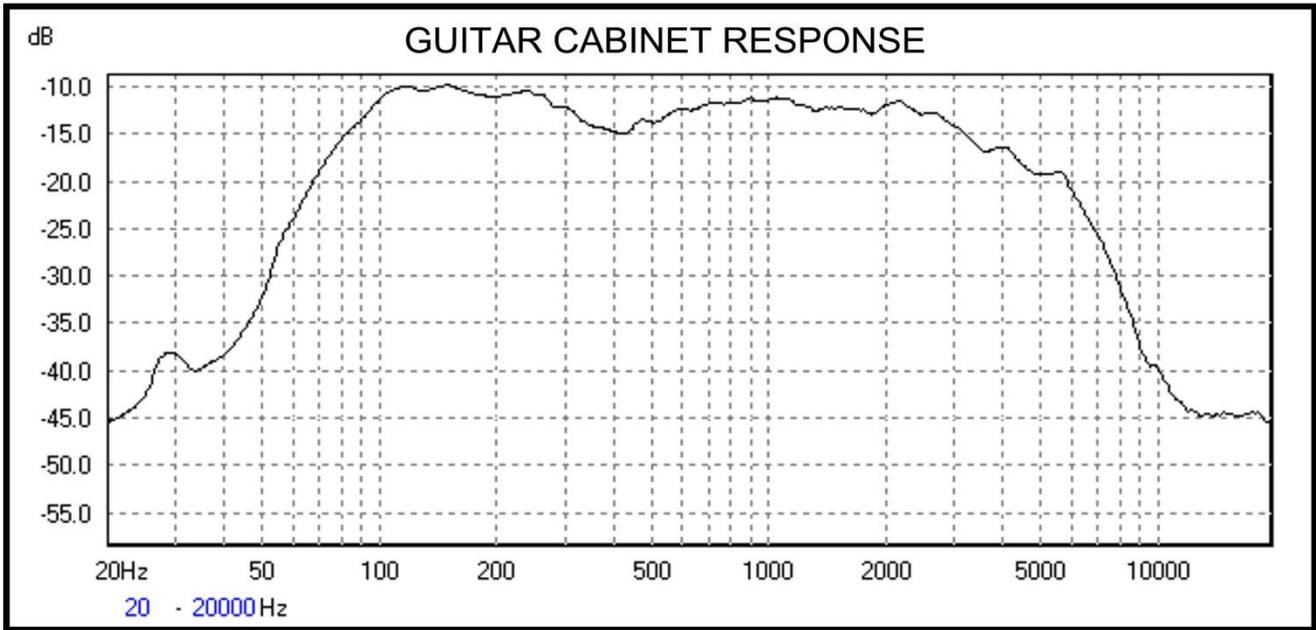
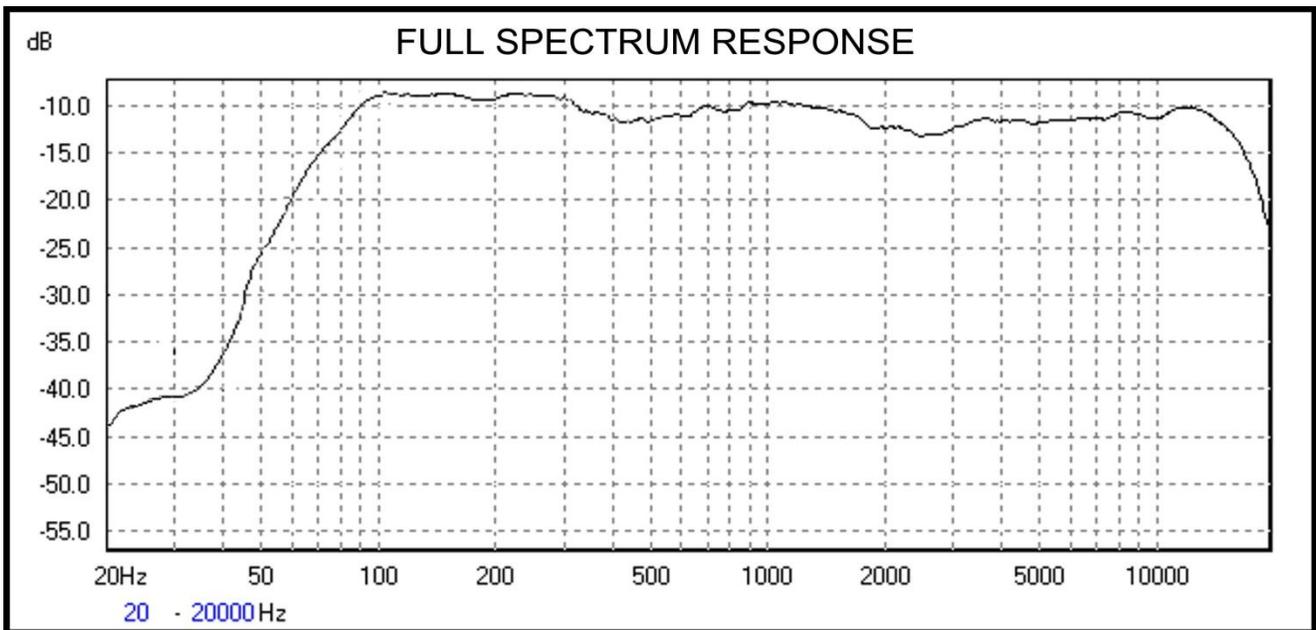
The Vector FS8 has a cabinet RESPONSE Switch on the back panel which allows the cabinet to be used as either a full range flat response full spectrum guitar monitor or as a standard powered guitar cabinet with typical guitar cabinet response.

REAR PANEL DESCRIPTION



1. Channel 1 input / Combo Jack will accept either balanced XLR or ¼ inch plugs
2. Level control for channel 1 input, mixes the level of channel 1 in the output.
3. Channel 2 input / Combo Jack will accept either balanced XLR or ¼ inch plugs
4. Level control for channel 2 input, mixes the level of channel 2 in the output.
5. Response Switch selects the response of the FS8. Out = Flat, IN = Guitar Cab
6. Mains AC Power Switch
7. Mains AC IEC Power cord connector
8. Internal Fuse replace with 5 amp slow blow

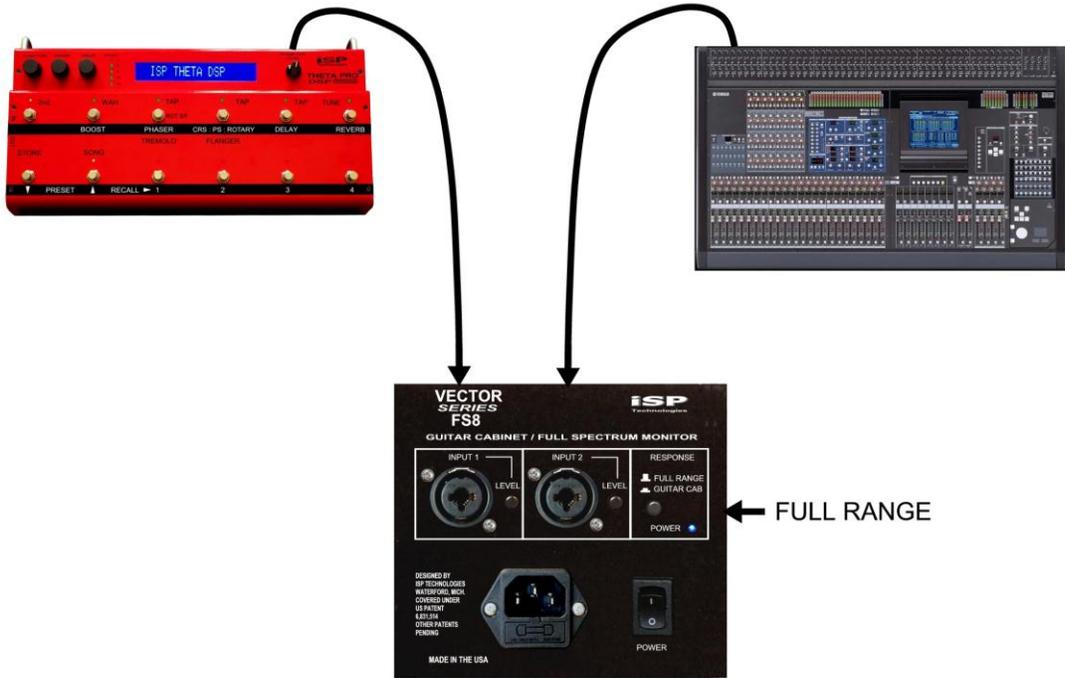
The Full Spectrum setting is designed to provide a subtle 2db bass boost and a gentle pull of 2db in the critical high mid between 2Khz and 3Khz to avoid any harshness and deliver that fat warm smooth tone. The silk dome tweeter provides natural power compression similar to that of the paper cone woofer to maintain proper spectral balance at all playing levels. In Full Spectrum setting the -10db response is 60Hz to 19Khz. In Guitar Cabinet setting the response is like the best sounding guitar speakers available with a soft roll-off above 3Khz and a steep roll-off above 6Khz. The built in power amplifiers are based on ISP Technologies patented DAA (Dynamic Adaptive Amplifier) technology providing excellent tone even under clipping conditions not the current popular approach of the harsh, non musical Class D amplifiers. The FS8 is tuned and equalized for flat, Full Spectrum Audio response when in Full Spectrum Mode and the 175 watt RMS rating is a true continuous measurement providing "peak" performance of 350 watts.



VECTOR FS8 FULL RANGE CONNECTIONS

Connect your Full Range speaker simulated output to one of the inputs on the Vector FS8 as shown below. The second input can be used to connect a monitor feed from the Front of House or Monitor Mixer allowing the Vector FS8 to also function as your stage monitor. Note: the Response switch needs to be in Full Range position. If you are using a pedal board to feed the Vector FS8 switch the Response switch into the Guitar Cab position.

FULL RANGE SPEAKER SIMULATED APPLICATION



VECTOR FS8 SPECIFICATIONS

POWER:	175 watts RMS, 350 watts PEAK
SPEAKER:	8 inch Beyma
TWEETER:	1 inch Silk Dome Vifa
RESPONSE:	50 Hz - 20kHz
DIMENSIONS:	22"H X 18"W X 14.5"D
WEIGHT:	60 lbs.
CABINET:	12mm Baltic Birch with Polyuera Spray on Finish
MAINS AC	AUTO SWITCHING 100VAC - 240VAC

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 covered under patents 6,831,514, 9,402,128 and 9,641,133 with other patents pending



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