
User Manual

D2-PS-001 Power Supply

Revision 02



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1 Introduction

This manual contains information for the Vescent D2-PS-001 Power Supply. The D2-PS-001 provides a DC voltage for powering the D2-260 Beat Note Detector.

This section has information for safely operating the D2-PS-001. Please carefully read this section before using the D2-PS-001. [Section 2](#) introduces the user to the instrument and defines all hardware connections. [Section 3](#) explains normal operation of the D2-PS-001. For further information, including product specifications, additional resource links, and warranty information, see the [appendices](#).

1.1 Symbol Definitions

The following symbols may be encountered in this manual or on the device.

Symbol	Description
	Caution: Follow instructions to avoid injury or damage to equipment
	Caution: Risk of electric shock
	For indoor use only
	WEEE: Separate collection for waste electric and electronic equipment is required
	Circle Indicator: Indicates relevant item in image
	Pointer Indicator: Points to relevant item in image

1.2 Safety



This instrument is intended for use by qualified personnel who recognize shock hazards and are familiar with the safety precautions required to avoid possible injury. Read this instruction manual thoroughly before use to become familiar with the instrument's operations and capabilities.



If this instrument is used in a manner not specified by the manufacturer in this manual or other relevant literature, protection provided by the instrument may be impaired.



The D2-PS-001 is not intended for fail-safe operation in hazardous environments or life-threatening situations. The user assumes full responsibility for correct and safe usage of the D2-PS-001 in accordance with any applicable laws, codes, regulations, and standards pertaining to their specific application. Vescent is not liable for any consequential damage due to misapplication or failure of the D2-PS-001.



To avoid electrical shock hazard, connect the instrument to properly earth-grounded, 3-prong receptacles only. Failure to observe this precaution can result in severe injury or death.

2 Hardware

2.1 Package Contents



Carefully remove and inspect the following items that are contained in the shipping box:

1. Power Supply Adapter
2. AC Power Cord, region specific

2.2 Connections

The D2-PS-001 adapter has the following connections:

3. Hirose Connector

Male 6-pin Hirose connector that provides +5 VDC.

4. Power Port



Use the provided AC power cord to connect this port to a properly grounded mains receptacle.

3 Getting Started

To supply power to a D2-260 Beat Note Detector, follow these instructions.

- Plug the Hirose connector into the POWER port on the D2-260.



- Plug one end of the AC power cord into the D2-PS-001 power supply and the other end into a properly grounded mains receptacle.

A Specifications

Parameter	Value	Units
V_{out}	+5	VDC
Input Voltage	100 - 240	VAC
Input Frequency	50 or 60	Hz

B Additional Resources

QR Code	Details
	<u>Vescent Home</u> https://vescent.com/ Additional resources are available at vescent.com

C Service & Maintenance



The D2-PS-001 is designed to be maintenance free. No user-serviceable parts are inside the unit. No further calibrations are necessary for the D2-PS-001 to meet its accuracy specifications over the lifetime of the product. Opening the instrument case voids the warranty and exposes the user to hazardous voltages that are present inside the instrument case.

For service or repairs:

1. Contact Vescent customer service via telephone at (+1) 303-296-6766, online at www.vescent.com/contact, or via email at info@vescent.com. Customer service will determine if the equipment requires service, repair, calibration, or replacement. Factory office hours are 9:00 am-5:00 pm MST.
2. If the unit must be returned to Vescent, ask for a Return Merchandise Authorization (RMA) from customer service. **Never send any unit back to Vescent without a completed Return Merchandise Authorization (RMA).**
3. Pack the unit in its original shipping material (if possible) with at least 1 inch of compressible packing material on all sides. Be sure to include an ownership tag and enter a description fully detailing the defect and the conditions under which it was observed on the RMA form.
4. Return the unit, postage prepaid, to Vescent. Do not forget to return a hard copy of the completed RMA form with the unit and write the RMA number on the shipping label. Vescent will refuse and return any package that does not bear an RMA.
5. After repair, the equipment will be returned with a repair report. If the equipment is out of warranty but operates within specifications, a test set-up fee will be charged to the customer. If the equipment is not under warranty, the customer will be invoiced for the cost appearing on the repair report.
6. Vescent is responsible for shipping the unit back to the customer if the unit is under warranty. **Shipping damage is not covered by this warranty**, and shipping insurance, which Vescent recommends, is at the customer's expense.

D Warranty

Vescent hereby warrants to Buyer, that during the applicable Warranty Period (as defined below) the Products will conform to Vescent's published specifications and will be free of defects in materials or workmanship when used, installed and maintained in accordance with Vescent's published specifications. Vescent's sole liability and Buyer's sole and exclusive remedy for breach of warranty shall be limited to, at Vescent's option, either repairing or replacing the defective components of the Product or crediting Buyer for the amount Buyer has paid to Vescent for the applicable Product. Vescent's liability shall apply only to Products which are returned to the factory or authorized repair point, with shipping charges prepaid by Buyer, and which are, after examination, determined to Vescent's satisfaction to be defective due to defects in materials or workmanship. Vescent will only accept returns authorized by a Vescent customer service representative and with a valid RMA number. This warranty does not apply to Products which are designated by Vescent as "Pre-Production Products", e.g. Alpha, Beta or Prototypes or are Products which have been repaired or modified without Vescent's written approval, or subjected to unusual physical, thermal, optical or electrical stress, improper installation or cleaning, misuse, abuse, accident or negligence in use, storage, transportation or handling. The "Warranty Period" during which this warranty applies varies with Product type as follows:

- a. For standard Vescent lasers in which a counter is incorporated (i.e. lasers with counters for which Vescent has published a datasheet and which have not been obsoleted by the time of order placement): one (1) year after the date of original shipment or 3,000 hours of use, whichever occurs first;
- b. For standard Vescent products other than lasers with counters, (i.e. products for which Vescent has published a datasheet and which have not been obsoleted by the time of order placement): one (1) year after the original shipment;
- c. For any other Product including, without limitation, all product types as set forth in sections a. and b. of this clause 5 which are in any way customized, build-to-order, otherwise non-standard and/or are subject of a blanket purchase order: one (1) year after the date of original shipment unless otherwise agreed to in writing on a case by case basis. If, in relation to any Product Vescent offers as an additional purchase option, a warranty period over and above that which is set out in sections b. and c. of this clause 5 ("Extended Warranty") and Buyer exercises such option then the Warranty Period shall be the duration as specified on such Extended Warranty commencing on the date of original shipment. Any Extended Warranty option is only available at the time of and on the same order as the original Product purchase.
- d. For any non-warranty Product that has been repaired, Vescent will extend the applicable Warranty Period by sixty (60) calendar days for the specific characteristic of the Product that is repaired by Vescent. Other characteristics of the non-warranty Product will remain uncovered by any warranty.

e. For Products that are discontinued, Vescent's liability shall terminate at the end of the applicable Warranty Period or one (1) year from the date of discontinuity, whichever occurs first.

f. Except for the warranty stated herein and to the extent permitted by applicable law Vescent specifically disclaims any and all warranties, express or implied, including, but not limited to, any warranties of merchantability, fitness for a particular purpose, or noninfringement.