

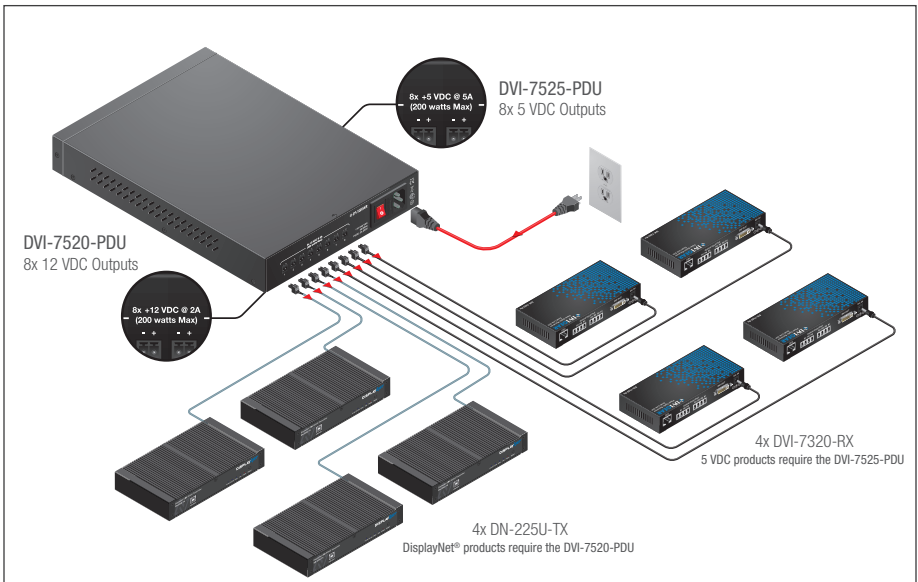
### Introduction

**AV Power Management** – Many AV products require the use of external AC power supply units (PSU) to power their internal electronic circuitry. These external PSUs (wall warts) can pose a major challenge to system designers as they occupy valuable space within AV equipment racks where there are a limited number of AC outlets. Furthermore, some external PSUs are poorly designed and ill-suited for use in high profile applications.

**Exceptional Reliability** – DVIgear's DVI-7520-PDU and DVI-7525-PDU Power Distribution Units are engineered from the ground up for 24/7 mission critical applications. These units offer an unprecedented level of reliability with an MTBF of greater than 220,000 hours. The DVI-7520-PDU provides +12 VDC power while the DVI-7525-PDU provides +5 VDC. The units each have an overall power reserve of 200 watts as well as eight outputs. Each output is rated for 25 watts. These features allow system designers and facility managers to optimize power management through more efficient use of rack space, which makes these units ideal solutions for a wide range of professional applications.

**Advanced Design** – Each unit is housed in a rugged 1U half-rack mountable enclosure. They accept AC line voltages auto-ranging from 88-264 VAC and AC line frequencies from 47-63 Hz. All outputs include extensive protection against overload, over-voltage and over-temperature. Versatile and reliable Phoenix connectors allow for universal connections to various products that require +12 VDC or +5 VDC power.

### Typical Application



## DVI-7520-PDU Front and Rear Views



DVI-7520-PDU Rear View Close-up

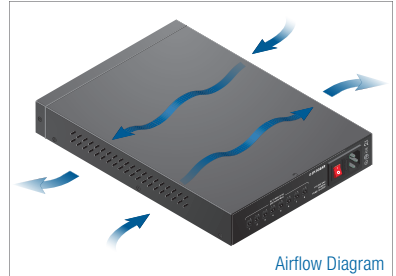


DVI-7520-PDU Rear View Close-up

1. Power LED	Continuously lit when unit is receiving power and switched ON.
2. AC Power Input	Connect supplied AC power cord securely to unit.
3. Power Switch	This switch turns the unit ON / OFF. Lights red when turned ON.
4. DC Power Outputs <sup>(1)</sup>	2-pin Phoenix connectors. See pages 3-4 for more details.
5. Ventilation Holes <sup>(2)</sup>	Allows airflow through the device.
6. Grounding Screw	Attach a ground (earth) connection to the unit with this screw.
7. Mounting Holes (underneath)	Use the included mounting screws to attach the unit to a rack mount kit (p.n. DVI-7520-RMK must be purchased separately).

**Note 1:** DVI-7520-PDU: each output is rated for +12 VDC / ~2.0A (25 watts) max. DVI-7525-PDU: each output is rated for +5 VDC / 5.0A (25 watts) max. If using DC power cables other than those provided with these units, use 18 AWG wire and observe proper polarity as shown at the bottom of this page.

**Note 2 – WARNING:** In order to ensure proper operation and long-term reliability, care must be taken to ensure that the airflow is not restricted in any way.



## Installation

1. Install the power distribution unit in a rack mount environment using DVI-7520-RMK (purchased separately). Care must be taken to ensure that the airflow is not restricted in any way.<sup>(2)</sup>
2. Connect the AC power input cable to a power source and to the power distribution unit.
3. Connect devices to be powered to the DC outputs of the unit using the appropriate power supply extension cables (see page 4).<sup>(3)</sup>
4. Turn the power distribution unit ON using the power switch at the rear of the unit. Check to make sure the power LED on the front panel is lit.
5. The unit is ready for use.

**Note 3 – WARNING:** The DVI-7520-PDU provides +12 VDC outputs, while the DVI-7525-PDU provides +5 VDC outputs. Take care to avoid connecting incompatible devices to these Power Distribution Units. For instance, connecting any +5 VDC devices to the +12 VDC outputs may cause damage and system failure.

## Package Contents

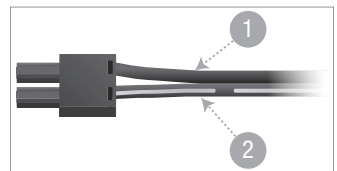
Please check the packaging and make certain the following items are contained in the shipping carton:

- 1x DVI-7520-PDU or DVI-7525-PDU Power Distribution Unit
- 8x DVI-7520-PSX Power Supply Extension Cables (only included with DVI-7520-PDU)
- 8x 2-pin, 3.5mm pitch male Phoenix Connectors (p.n. 1916384 included only with DVI-7525-PDU)
- 1x AC Power Cord
- 4x Rubber Feet
- 4x Mounting Screws – for Rack Mount Kit (p.n. DVI-7520-RMK must be purchased separately)
- 1x Quick Start Guide





## Extension Cable Polarity

The wire polarity of the Phoenix connector must be maintained in order to ensure safety. The diagram to the right indicates the wires as they appear on the underside of the connector.


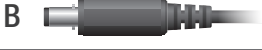




1. The wire without a line is the *negative* wire.
2. The wire with the white line is the *positive* wire.



### DVI-7520-PDU: Optional +12 VDC Power Supply Extension Cables<sup>(4)</sup>

Model No.	DVI-7520-PSX <sup>(5)</sup>	
Connector A	2-pin, 3.5 mm pitch Phoenix	 
Connector B	Screw Lock 5.5 x 2.1 x 10mm	
May replace	DVI-7520-PS2	
Model No.	DVI-7231-PSX	
Connector A	2-pin, 3.5mm pitch Phoenix	 
Connector B	5.5 x 2.0 x 9.5mm	
May replace	DVI-7215-PS, DVI-72155-PS	

### DVI-7525-PDU: Optional +5 VDC Power Supply Extension Cables<sup>(4)</sup>

Model No.	DVI-7221-PSX	
Connector A	2-pin, 3.5 mm pitch Phoenix	 
Connector B	5.5 x 2.5 x 9.5mm	
May replace	DVI-7207-PS	
Model No.	DVI-72091-PSX	
Connector A	2-pin, 3.5 mm pitch Phoenix	 
Connector B	3.5 x 1.35 x 9.5mm	
May replace	DVI-7211-PS	
Model No.	DVI-7331-PSX	
Connector A	2-pin, 3.5 mm pitch Phoenix	 
Connector B	USB Micro-B Male	
May replace	DVI-7330-PS	

**Note 4:** Please install the appropriate power supply extension cables to connect the DC outputs of this unit to the devices to be powered remotely. Unless otherwise noted, these cables are not included and must be ordered separately.

**Note 5:** 8x DVI-7520-PSX cables are included with the DVI-7520-PDU unit.

**Note 6:** The length of each power supply extension cable is 5.2 ft. (1.6m).

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