



# POWERBASE

## Owner's Manual

Thank you very much for choosing a dotRed product.

We hope that this unit will bring you countless hours of fun.

Keep this owner's manual handy for future reference.

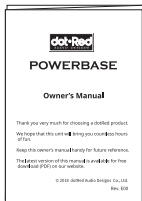
The latest version of this manual is available for free download (PDF) on our website.

© 2018 dotRed Audio Designs Co., Ltd.

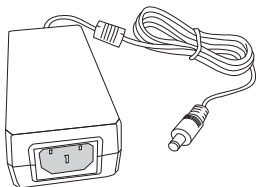
Rev. E00

# INCLUDED ITEMS

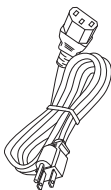
Make sure that the package contains the main unit and all the included items listed below.



Owner's Manual (this document)



AC adaptor



AC adaptor cord



3.0 x 8-type screws for fixing modules (2pcs)

If you notice any sign of damage or abnormality, such as scratches, bends, etc. upon unpacking this unit, contact the store where you bought it. You can also get in touch with us through the "Support" page of our website at:

<https://www.dotred-audio-designs.com>

# PRECAUTIONS FOR USE



## CAUTION

Use this product by following all safety precautions in this owner's manual.

---

This product has a circuit protection feature intended to protect the unit in case of overvoltage and short-circuit under normal conditions of use as described in this manual.

However, due to several factors, we cannot guarantee that this feature will effectively protect the unit in all cases.

- To avoid damaging the unit and guarantee a safe use, use exclusively the supplied AC adaptor.
- Do not use any +5volt power adaptor on the bus board because this unit provides a +5volt source.  
Connecting such a power adaptor would damage this unit.
- If you wish to install a module fitted with a 10-pin connector, use a 10 pin to 16 pin Eurorack power cable.
- In compliance with the Eurorack standard, the 16-pin headers on this unit have -12V assigned to their #1 pin. Prior to making any connection, make sure that each module you intend to use with this unit has the same pin assignment.
- Use this unit exclusively indoors, making sure the environment of use has an ambient temperature between 0°C and 35°C, and a relative humidity below 85%.

## SAFETY PRECAUTIONS

*Heed all precautions for your own safety!*



### WARNING

Keep this unit as well as its AC adaptor away from rain and any damp/wet environment. If any liquid get splashed onto or gets inside this unit or its AC adaptor, this can cause a malfunction and poses a risk of electric shock.

Do not do any modification to this unit as it will void our warranty and also poses a risk to your safety.

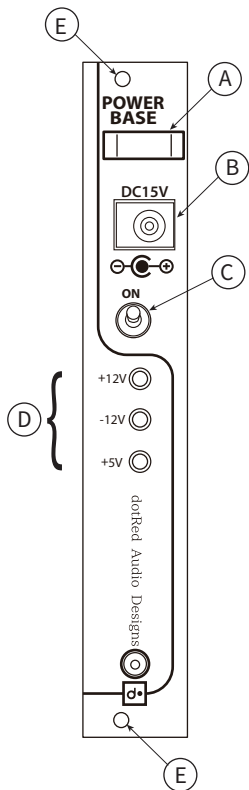


### CAUTION

If this unit shows any signs of abnormal behavior such as the symptoms listed below, immediately disconnect the AC adaptor from the mains and get in touch with the dealer where you bought this unit:

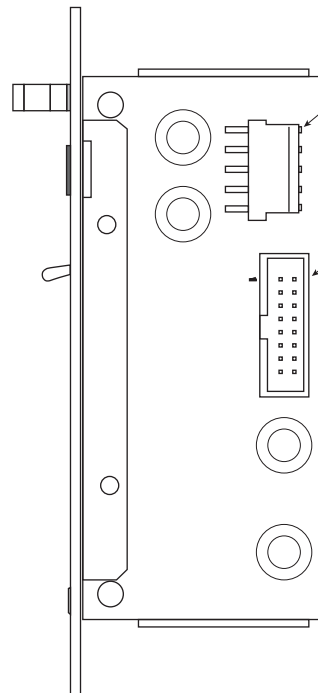
- Smoke, sparks or a strange smell come out of this unit or its AC adaptor.
- Some or all of the POWERBASE's status indicators are blinking or off.
- The AC adaptor's cord is cracked or shows any other signs of damage.
- The AC adaptor's body is damaged and fails to deliver stable power.

# NAME & FUNCTION



<Front view>

- (A) Cable hook:  
Pass the AC adaptor's DC cable through this hook to prevent accidental disconnection.
- (B) DC15V input:  
Connect the AC adaptor's DC cable end plug here.
- (C) Power switch:  
Flip it to the "ON" position to power on the unit.
- (D) Status indicators:  
Indicate the power supply status. Those indicators are lit under normal power supply conditions.
- (E) Screw hole:  
Install this unit to mounting rails of the case by suitable screws via these holes.



<Side view>

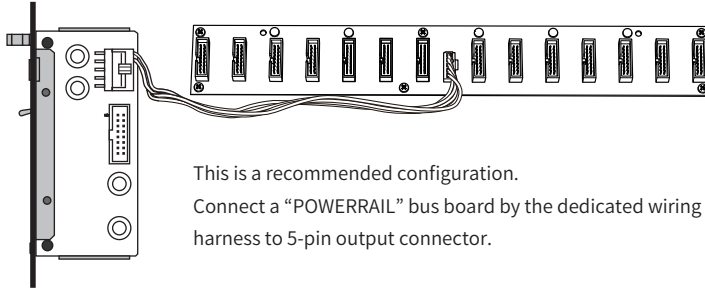
- (F) Output connector:  
This 5-pin connector can deliver the power to your modules by dedicated wiring harness and the "POWERRAIL" bus board.
- (G) Output header:  
This 16-pin header can deliver the power to your modules by flying cable or equivalents.

Note: The #1 pin of header is -12Volt. When connecting a module fitted with less than 16 pins, make sure to connect the module's plug's #1 pin to the #1 pin on the header.

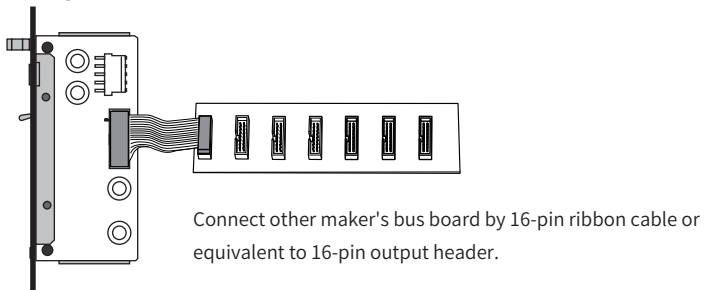
Note: Also this unit can deliver the power to your modules by using both output connector and output header. If you choose that, we recommend total power consumption of loading modules is 30Watts or less.

## USAGE EXAMPLE

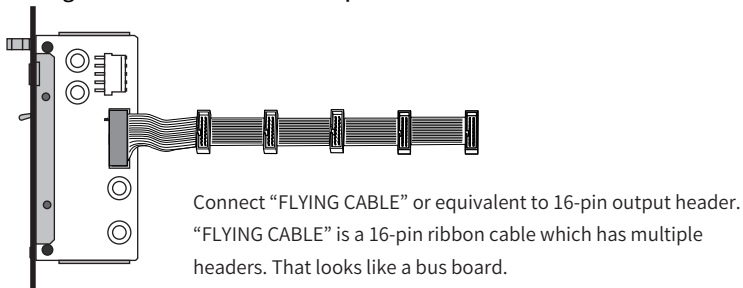
### 1. Using with "POWERRAIL" bus board.



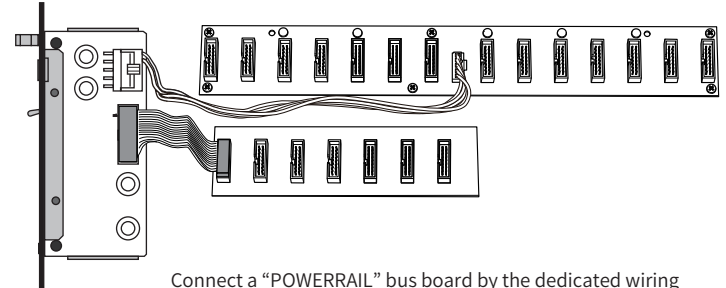
### 2. Using with other maker's bus board.



### 3. Using with "FLYING CABLE" or equivalent.



### 4. Using with both "POWERRAIL" and other maker's bus board.



Note: This unit can deliver the power to your modules by using both 5-pin output connector and 16-pin output header. If you choose that, we recommend total power consumption of loading modules is 30Watts or less.

Note: Should be use a passive type bus board in this case. If you desire to use an active type bus board which has power conversion circuit on that board, you should be cut the etching pattern of that circuit's power output line.

Note: If you got a damage when you used other maker's bus board or "FLYING CABLE" or such a ribbon cable, that's at your own risk. So we don't have the guaranty.

# SPECIFICATIONS

## Physical format:

Euro-rack (Doepfer's A-100 format), 4HP

## Power Specifications:

### AC adaptor

- AC input : 100V~240V AC / 50~60Hz
- AC inlet type: IEC - C14
- DC output: +15V (typ.) / 3.34A (max.)
- DC plug type: Outside  $\Phi$ : 5.5mm  
Inside  $\Phi$ : 2.1mm  
Polarity: center +

### POWERBASE

- DC input: +15V (+13V to +19V)
- DC output current: 1000mA @+12V  
1000mA @-12V  
500mA @+5V

## Weight:

Approx. 0.5kg

## ENVIRONMENT OF USE & CLEANING

Read this section prior to using this unit.

- Avoid exposure to moisture and direct sunlight. Make sure to use this unit within an ambient temperature between 0°C to 35°C and with a relative humidity of <85%.
- The supplied AC adaptor is exclusively designed for indoor use. Never use it outdoors, as its safe and correct operation cannot be guaranteed.
- Use only this product outdoors in a proper and electrically safe performance environment (such as on a festival stage, etc.).
- Use only a clean soft cloth if you need to clean this unit. Do not use any solvent-based cleaning agents as this may damage the unit's finish. To remove stubborn dirt, slightly damp a soft cloth with water.



# TROUBLESHOOTING

If this unit does not seem to work properly and shows some of the symptoms described here below, make sure each installed module works correctly before sending the unit in for repair.

## Symptoms

- When powering on the unit, the status indicators do not light up.
- When powering on the unit, the status indicators' luminosity is lower than usual.

## Causes

- One of the modules installed in the unit does not work properly.
- The current fed to the modules is overloading.
- One module's cable is shorted.
- One module's connector is not connected properly to the header.
- The AC adaptor doesn't work properly.

At first, make sure the direction of connection between plug and header on bus board for each modules. There is able to find the difference the direction for connection in rare.

If the trouble cannot be solved by removing modules, and you determine that this unit needs repair, contact us at:

“[contact@dotred-audio-designs.com](mailto:contact@dotred-audio-designs.com)” .

Write down a short description of the problem and the conditions when it first occurred.

# 1-YEAR LIMITED WARRANTY

## LIMITED WARRANTY TERMS AND CONDITIONS

This Limited Warranty applies only to DOTRED AUDIO DESIGNS products purchased at the our web shop. The warranty policy and service is determined by our original way.

DOTRED AUDIO DESIGNS warrants to the first owner of a covered product purchased from DOTRED AUDIO DESIGNS web shop that this product will be free from defects in materials and/or workmanship for a period of one year from the date of purchase.

Please register this product by sending us an email at [contact@dotred-audio-designs.com](mailto:contact@dotred-audio-designs.com) to establish the date of purchase (THIS IS NOT A REQUIREMENT FOR WARRANTY SERVICE BUT HIGHLY ADVISED). Besides your full name and address, please mention the date and purchase location of your product.

To exercise your rights under this Warranty as the first owner/purchaser, YOU MUST SHIP THIS PRODUCT IN ITS ORIGINAL PACKAGING at your expense, with Warranty Card and the included items with package, to DOTRED AUDIO DESIGNS to the following address:

**DOTRED AUDIO DESIGNS CO., LTD.**

9-10 Kamijima, Hamakita-ku  
Hamamatsu  
434-0011 JAPAN

An RAN (Return Authorization Number) from DOTRED AUDIO DESIGNS must be obtained first before returning any product.

- Email us your RAN request to "[contact@dotred-audio-designs.com](mailto:contact@dotred-audio-designs.com)".

Products shipped to DOTRED AUDIO DESIGNS without an RAN will be refused to receive it, so that returned. Shipping insurance is optional, but highly recommended. DOTRED AUDIO DESIGNS will repair or replace this product at its sole option and at no charge to you for parts and labor—when deemed necessary and within the warranty period — provided that DOTRED AUDIO DESIGNS reserves the right to determine whether the product is “defective” for purposes of this Limited Warranty. This Warranty does not apply if damage to this product occurs as a result of abuse or misuse, failure to follow instructions according to its Owner’s Manual, abnormal use or handling, improper packaging, another product’s interaction, exposure to temperature extremes, or if the product has been altered or modified/customized in any way, or the damage was caused by unauthorized repair or service. The original product must return to DOTRED AUDIO DESIGNS unaltered.

IN NO EVENT SHALL DOTRED AUDIO DESIGNS CO., LTD BE LIABLE FOR ANY INDIRECT, INCIDENTAL, COLLATERAL, EXEMPLARY, PUNITIVE, CONSEQUENTIAL OR SPECIAL DAMAGES OR LOSSES ARISING OUT OF YOUR PURCHASE OF PRODUCTS AND/OR OUT OF THIS WARRANTY, INCLUDING WITHOUT LIMITATION, LOSS OF USE, PROFITS, GOODWILL OR SAVINGS OR LOSS OF DATA, MUSIC, ELECTRONIC FILES, OR PREFERENCES THAT MAY HAVE BEEN STORED BY A USER OF THE PRODUCT, EVEN IF DOTRED AUDIO DESIGNS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR CLAIMS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This Limited Warranty and the right of replacement is in lieu of any and all other warranties—which you hereby waive—and it gives purchasers specific legal rights.

You may also have other rights which vary from State to State.

# WARRANTY CARD



**dotRed Audio Designs Co., Ltd.**

9-10, Kamijima, Hamakita-ku,  
Hamamatsu 434-0011 JAPAN

Model : POWERBASE	
Customer	Address:
	Name:
Shop or seller's signature:	
Warranty term: 1 year	Purchase date:

◆ Keep this warranty card together with your receipt or sales slip as a proof of the purchase location and date will be requested for any warranty claim.

Copy the 6-digit serial number  
that printed on the label into  
this frame.

--

If you have any question, please email us at: [contact@dotred-audio-designs.com](mailto:contact@dotred-audio-designs.com)

You can also get in touch and send us any query through the Support page of our website.

<https://www.dotred-audio-designs.com>