

**PHANTOME**

**POWER**

**USER  
MANUAL**

**DNR**

## **Geachte klant,**

Wij danken u hartelijk voor uw keuze en het vertrouwen dat u in ons produkt stelt.  
U deed een goede keus, dit produkt is ontworpen door en voor professionele gebruikers.

Er is gebruik gemaakt van onze enorme "know how" in mengtafel en signaal processor technieken en dit gekombineerd met hoogwaardige componenten geeft u de zekerheid van een lange gebruiksduur.

Bovenstaande eigenschappen resulteren in een zeer betrouwbaar en bedrijfszeker eindprodukt.

Deze gebruiksaanwijzing helpt u in het optimaal benutten van alle mogelijkheden die dit produkt in zich heeft.

*Wij excuseren ons voor het feit dat deze gebruiksaanwijzing uitsluitend in het engels verkrijgbaar is.  
Dit is een gevolg van het feit dat 99% van onze produkten geëxporteerd worden en het engels de algemeen aanvaarde internationale voertaal is.*

Mocht u nog vragen hebben dan kunt u zich altijd tot onze dealers wenden.

## **Dear client,**

Thank you for choosing this product.

This product is designed by specialists in the field of professional audio and is intended to be used as a professional tool.

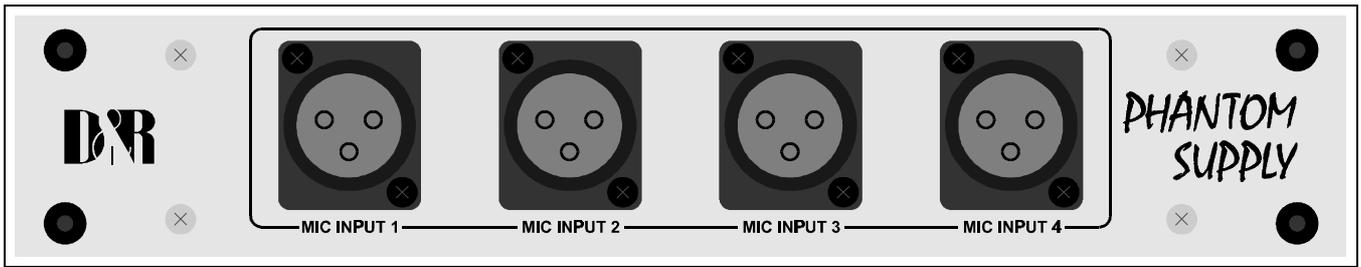
We are confident that you will be using this product for many years to come, and wish you much success.

We always value suggestions from our clients, and we would therefore be grateful if you could complete and return the questionnaire included at the back of this manual, once you have become familiar with this product. We will certainly learn from your comments, and very much appreciate your time doing this.

With kind regards,

Duco de Rijk  
President

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## PHANTOM POWER MANUAL

### DESCRIPTION

D&R's phantom power is a 9.5" rack mountable unit to feed 4 microphones as a maximum. The lockable female XLR's at the frontpanel accept balanced mics and 4 lockable male XLR's at the back panel can feed non phantom powered mixers or other recording devices such as DAT tape decks, DCC tapedecks, Minidisk etc.

The unit is powered by AC mains power and is internally fused for your safety. Output is a regulated DC voltage of maximum 48 volt at 32mA for all four inputs.

### INSTALLATION

The phantom power is designed to feed 4 microphones at the same time with DC blocking capacitors to separate the DC voltage feeding the capacitors microphones from the male XILR outputs on the back of the unit. Installation is simple, both male and female XLR's are balanced wired with pin 1 to ground, pin 2 in phase, and pin 3 out of phase. The female XLR nr 1 corresponds with the same male XLR which is in line on the back of the unit. This goes for the other XLR's as well.

### POWERING

The unit is normally factory set to be connected to your local mains voltage. This could be either 115 volt or 230 volt, or a voltage close to these values. The units has a three wire mains cord for proper grounding of the device.

Please read the following safety instructions for your and your environments safety.

We hope that this device gives you the information to create transparent recordings without any hidden problems in the final mix.

# DECLARATION OF CONFORMITY

**Manufacturers Name:** D&R Electronica Weesp b.v.

**Manufacturers Address:** Rijnkade 15B,  
1382 GS Weesp,  
The Netherlands

declares that the product

**Phantome power unit**

conforms to the following product specifications:

**EMC:** **EN 55022: 1987**  
CISPR 22 (1993) class B  
**EN 500082-1 (1992)**

Supplementary Information:

**The products herewith complies with the requirements of the EMC Directive 89/336/EEC (1989) as amended by the CE Marking Directive 93/68/EEC (1993).**

D&R Electronica Weesp b.v.  
Rijnkade 15 B  
1382 GS WEESP  
The Netherlands  
President of Engineering

# PRODUCT SAFETY

This product is manufactured with the highest standards and is double checked in our quality control department for reliability in the "HIGH VOLTAGE" section.

## CAUTION

Never remove any panels, or open this equipment. No user servicable parts inside.  
Equipment power supply must be grounded at all times.  
Only use this product as described, in user manual or brochure.  
Do not operate this equipment in high humidity or expose it to water or other liquids.  
Check the AC power supply cable to assure secure contact.  
Have your equipment checked yearly by a qualified dealer service center.  
Hazardous electrical shock can be avoided by carefully following the above rules.

## EXTRA CAUTION FOR LIVE SOUND

Ground all equipment using the ground pin in the AC power supply cable.  
Never remove this pin. Ground loops should be eliminated only by use of isolation transformers for all inputs and outputs. Replace any blown fuse with the same type and rating only after equipment has been disconnected from AC power.  
If problem persists, return equipment to qualified service technician

## PLEASE READ THE FOLLOWING INFORMATION

Especially in sound equipment on stage the following information is essential to know.  
An electrical shock is caused by voltage and current, actually it is the current that causes the shock. In practise the higher the voltage the higher the current will be and the higher the shock.  
But there is another thing to consider and it is resistance.  
When the resistance in Ohms is high between two poles, the current will be low and vica versa.  
All three of these; voltage, current. and resistance are important in determining the effect of an electrical shock.  
*However, the severity of a shock primarily determined by the amount of current flowing through a person.*  
A person can feel a shock because the muscles in a body respond to electrical current and because the heart is a muscle it can affect, when the current is high enough.  
Current can also be fatal when it causes the chest muscles to contract and stop breathing. At what potential is current dangereous.  
Well the first feeling of current is a tingle at 0.001 Amp of current.  
The current between 0.1 Amp and 0.2 Amp is fatal.  
Imagine that your home fuses of 20 Amp can handle 200 times more current than is necessary to kill. How does resistance affect the shock a person feels.  
A typical resistance between one hand to the other in "dry" condition could well over 100,000 Ohm.

***If you are playing on stage your body is perspiring extensively and your body resistance is lowered by more than 50%. This is a situation in which current can easily flow.***

Current will flow when there is a difference in ground potential between equipment on stage and in the P.A. system. Please do check if there is any potential between the housing of the mikes and the guitarsynth amps, which will be linked by your body on stage. Imagine, a guitar in your hand and your lips close to the mike! A ground potential difference of above 10 volts is not unusual, in improperly wired buildings it can possibly be as high as 240 volts.

Although removing the ground wire sometimes cures a system hum, it will create a very hazardous situation for the performing musician.

***Always earth all your equipment by the grounding pin in your mains plug.***

***Hum loops should be only cured by proper wiring and isolation input/output transformers.***

Replace fuses always with the same type and rating after the equipment has been turned off and unplugged. If the fuse blows again you have an equipment failure, do not use it again and return it to your dealer for repair.

And last but not least be careful not to touch a person being shocked as you, yourself could also be shocked. Once removed from the shock, have someone send for medical help immediately

***Always keep the above mentioned information in mind when using electrically powered equipment.***