

PRO Split

High Performance Microphone Splitter

Artcessories



User's Manual



APPLIED RESEARCH AND TECHNOLOGY

IMPORTANT SAFETY INSTRUCTION – READ FIRST



This symbol, whenever it appears, alerts you to the presence of uninsulated dangerous voltage inside enclosure—voltage that may be sufficient to constitute risk of shock.



This symbol, whenever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

Read Instructions: Retain safety and operating instructions for future reference. Heed all warnings printed here and on the equipment. Follow the operating instructions printed in this user guide.

Do not open: There are no user serviceable parts inside. Refer any service work to qualified technical personnel only.

Grounding: Only connect the unit to equipment with properly grounded mains power. Do not defeat the grounding and polarization means of the power cord plug of the connected equipment. Do not remove or tamper with the ground connection on the power cord of the connected equipment.

Environment: Protect from excessive dirt, dust, heat, and vibration when operating and storing. Avoid tobacco ash, drink spillage and smoke, especially that associated with smoke machines.

Handling: Protect the controls from damage during transit. Use adequate padding if you need to ship the unit. To avoid injury to yourself or damage to the equipment, take care when lifting, moving or carrying the unit.

Servicing: Refer servicing to qualified technical personnel.

Installation: Install the unit in accordance with the instructions printed in the user guide.

INTRODUCTION:

Thanks for purchasing Applied Research and Technology's PROSplit. The PROSplit provides one direct output and one transformer isolated output from a single microphone input.

Applications include sending the direct output to the main or Front-of-House mixer, with the second isolated output being sent to a monitor or recording mixer.

The direct output passes phantom power from the main mixer to the microphone for use with condenser microphones.

The PROSplit includes a ground-lift switch on the isolated output to reduce noise due to ground loops between connected equipment.

For versatility the PROSplit also features an attenuator pad switch on the input that can be used to alternately connect a preamplified (line-level) signal to the two microphone-level PROSplit outputs.

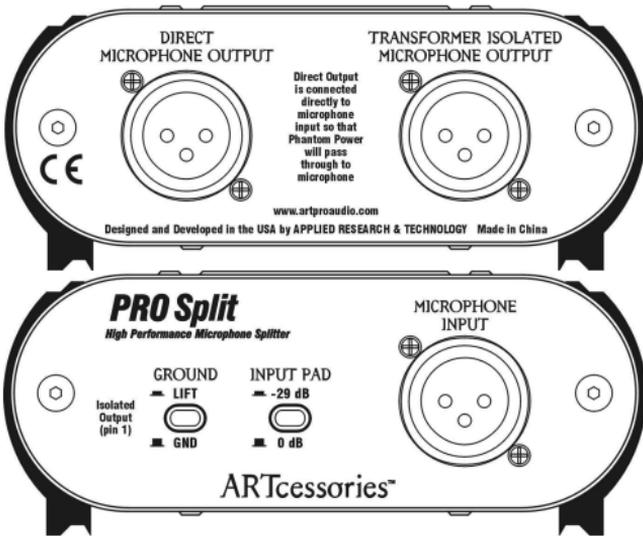
INSTALLATION and OPERATION:

Connect a low impedance dynamic or condenser microphone to the MICROPHONE INPUT on the PROSPLIT (alternately connect a line level signal to the MICROPHONE INPUT and engage the front panel INPUT PAD switch.).

Connect the DIRECT MICROPHONE OUTPUT to the mic input on main mixer (switch phantom power on at mixer if desired).

Connect the TRANSFORMER ISOLATED MICROPHONE OUTPUT to the mic input on secondary mixer or recording system.

Set GROUND switch to LIFT or GND. Use whichever setting provides lowest noise performance.



SPECIFICATIONS:

Frequency Response:	20Hz to 20kHz, $\pm 0.25\text{dB}$ @ -15dBu -3dB @ approx. 165Hz
THD:	<0.26% from 20Hz to 20kHz -15dBu input <0.1% from 45Hz to 20kHz, -15dBu input 0.002% Typical @ 1kHz, -15dBu Input
Phase Shift:	<10° @ 20kHz (Ref, 1kHz)
Input Impedance:	>1.1k Ohms @ 1kHz (Typical driving source impedance is 150 Ohm)
Output Impedance:	< 255 Ohms @ 1kHz (Typical output load impedance is 1k Ohm)
CMRR:	>105dB @ 60Hz / >80dB @ 3kHz
Voltage Insertion Loss:	Approximately 2dB @ 1kHz
Maximum Input Level: For 1% THD	-1.4dBu @ 20Hz / +3.5dBu @ 30Hz / +9.4dBu @ 50Hz
Dimensions HxWxD(in):	1.85 x 4.6 x 3.5
HxWxD(mm):	47 x 117 x 89
Weight (lbs/kg):	0.9 / 0.4

NOTE: All measurements made from the TRANSFORMER ISOLATED MICROPHONE OUTPUT with PAD SWITCH out (off) and 150 Ohm balanced source feeding MICROPHONE INPUT and 1k Ohm load connected to TRANSFORMER ISOLATED MICROPHONE OUTPUT to simulate a typical "real world" microphone and mic preamplifier. 0dBu = 0.775VRM

WARRANTY INFORMATION:

Limited Warranty (USA only)

Applied Research and Technology will provide warranty and service for this unit in accordance with the following warrants:

Applied Research and Technology, (ART) warrants to the original purchaser that this product and the components thereof will be free from defects in workmanship and materials for a period of **three** years from the date of purchase. Applied Research and Technology will, without charge, repair or replace, at its option, defective product or component parts upon prepaid delivery to the factory service department or authorized service center, accompanied by proof of purchase date in the form of a valid sales receipt.

Exclusions

This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. This warranty is void if the serial number is altered, defaced, or removed.

ART reserves the right to make changes in design or make additions to or improvements upon this product without any obligation to install the same on products previously manufactured.

ART shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights and you may have other rights, which

vary, from state to state. The warranty terms listed above are only valid within the United States of America. For units purchased outside the United States, an authorized distributor of Applied Research and Technology will provide service. For information on warranty and service policies outside of the U.S., please contact your local distributor.

Please fill in the following information for your reference:

Date of purchase: _____

Purchased from: _____

SERVICE:

The following information is provided in the unlikely event that your unit requires service.

1. Be sure that the unit is the cause of the problem. Check to make sure that the unit has power supplied, that all cables are connected correctly, and that the cables themselves are in working condition. You may want to consult with your dealer for assistance in troubleshooting or testing your particular configuration.
2. If you believe that the ART unit is at fault, go to www.artproaudio.com. Select "Support", then "Return Authorization Request" to request a return authorization number.
3. If you are returning the unit for service, pack the unit in its original carton or a reasonable substitute. The original packaging may not be suitable as a shipping carton, so consider putting the packaged unit in another box for shipping. Print the RA number clearly on the outside of the shipping box. Print your return shipping address on the outside of the box.
4. Include with your unit: a note with the RA number and your contact information, including a return shipping address (we cannot ship to a P.O. box) and a daytime phone number, and a description of the problem, preferably attached to the top of the unit. Also include a copy of your purchase receipt.



www.artproaudio.com

E-mail: support@artproaudio.com

© 2014 Applied Research & Technology

PROSPLIT
PS-5004-101
V1.3