



## ***PSC RF Multi Mini***



- Diversity 1 x 3 Active RF Splitter
- Low Noise, High Current RF Amplifiers
  - Compact Package
  - Made in the U.S.A.
  - “Single Band” 470-700Mhz
- “Dual Band” 470-618Mhz & 940-960Mhz
  - “Wide Band” 470-960Mhz

Professional Sound Corporation

28085 Smyth Drive, Valencia, CA 91355 USA

Thank you for purchasing your new PSC RF Multi Mini. This product is the result of more than a decade of experience in designing and manufacturing RF distribution systems. This compact, ruggedly built product should provide you with years of trouble-free service.



**Compact Size**



**Top Panel: Power Switch, BNC RF Inputs**



**Bottom panel: SMA RF Outputs, Hirose**

**DC Power Input. Pin 1 Neg, Pin 4 Positive**



**Convenient Belt Clip**

The PSC RF Multi Mini contains two, separate, active 1 x 3 RF splitters for use with up to three (3) diversity receivers. This compact, rugged device was developed using the latest super low noise, high current RF amplifiers and will operate over various frequency ranges based on which bandpass filter the unit is built with. Its two inputs are traditional BNC connectors for ease of use in interfacing with your external antennas.



**RF BNC Inputs Marked as “A” and “B”**

**Power Switch:** “ON” powers up main unit.

“ANT PWR” powers up unit and provides power to remote powered antennas or RF amplifiers.



**RF SMA outputs Marked as “A” and “B” Sides**

**4 Pin Hirose Power Connection**

The PSC RF Multi Mini also can provide power to external powered antennas or remote line amplifiers. Each of the SMA outputs offers a typical isolation factor of 24 to 28dB between radio receivers.

There is a three-way switch located on the top panel between the two BNC RF inputs. This switch has three positions: "OFF," main power "ON" and main power and remote ANTENNA PWR switched on. The switch utilizes a light up LED switch handle. When used in normal mode, the switch batt lights up GREEN. When the unit is switched to also provide remote antenna power, the switch lights up RED. The entire unit is powered from any source of external DC power of 7 to 18Vdc @ approximately 120 mA.

### **INSTRUCTIONS FOR USE:**

1. Connect a source of external 12Vdc power to the Hirose 4 pin connector on the bottom of the unit.
2. Connect your two receiver antennas to the RF input BNC connectors on the top of the unit.
3. Connect the PSC RF Multi Mini to your receivers using the appropriate cables from the RF output SMA connectors on the RF Multi Mini to the RF antenna connectors on your receivers.
4. Power up the unit. When using powered antennas or remote line amplifiers, turn the power switch to "ANT PWR." For all other uses, Turn the switch to "ON."

**\*NOTE\*** When used with ENG "bag" mixing setups, we recommend that you remotely mount your receive antennas up away from your equipment on your bag's shoulder straps. Alternately, you can mount your two receive antennas down and out in front of your bag. The main idea is the make sure that your receive antennas as not in the same plane (at the same height) as any transmitter antennas in your bag in order to minimize receiver Rf overload form near by transmitters.

## **SPECIFICATIONS:**

<b>Housing Size:</b>	<b>3.2" x 2.1" x 0.9" (81mm x 53mm x 23mm)</b>
<b>Weight:</b>	<b>6oz (172gm)</b>
<b>Power:</b>	<b>External DC, 7-18Vdc @ 120mA</b>
<b>Frequency Range:</b>	<b>470-700 Mhz (Single Band Model) 470-618Mhz &amp; 940-960Mhz (Dual Band Model) 470-960Mhz (Wide Band Model)</b>
<b>Input Impedance:</b>	<b>50 Ohms</b>
<b>Output Impedance:</b>	<b>50 Ohms</b>
<b>Max Input Signal Before Limiting:</b>	<b>+13dB</b>
<b>IP3</b>	<b>+31</b>
<b>Noise Figure:</b>	<b>0.8dB</b>
<b>Chassis Material:</b>	<b>Aircraft Aluminum</b>
<b>End Plate Material:</b>	<b>Stainless Steel</b>
<b>Finish:</b>	<b>Black anodize</b>
<b>Warranty:</b>	<b>1 Year, limited</b>

## **DECLARATION OF CONFORMITY**

**STANDARD:**                      **EN 60065.2012**                      **Power, Safety**  
  
   **EN 55032.2012**                      **Part 1, Emissions**  
  
   **EN55032.2012**                      **Part 2, Immunity**

**TRADE NAME:**                      **PSC**

**MODEL:**                              **RF Multi Mini**

**RESPONSIBLE PARTY:**      **Professional Sound Corp.**  
   **28085 Smyth Drive**  
  
   **Valencia, CA 91355 USA**

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**TYPE OF PRODUCT:**              **Antenna Distribution**

**MANUFACTURER:**                **Professional Sound Corp.**  
  
   **28085 Smyth Drive**  
  
   **Valencia, CA 91355 USA**

**We hereby declare that the equipment bearing the trade name and model number listed above has been tested in accordance with the requirements contained in the above listed directives. All necessary steps have been taken and are in force to assure that production units manufactured will conform to Directive guidelines.**

**July 2023                      Professional Sound Corporation.**

**Professional Sound Corporation 28085 Smyth Drive, Valencia, CA 91355**

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