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BSRF
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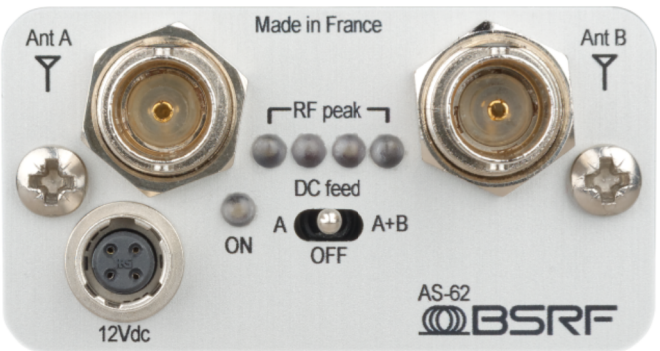
User Manual

AS-62



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Read first:

- First of all read this manual.
- Clean the device with a slightly damp cloth.
- This device must'nt be exposed to rain, moisture.
- Do not install the device near any heat sources.
- This device must be serviced by a qualified service personnel.
- Specifications are subject to change without notice.
- BSRF is not responsible of any injuries, destruction resulting of improper usage of equipments.

Manual

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About AS-62

Introduction :

The AS-62 has the perfect size for bag configuration. Small and robust it will follow you around the world ! New filtering circuits with improved RF behavior to reject unwanted low band and high band signals. As it's wideband you are not limited by blocks. The AS-62 has now a two step RF peak indicator to be sure you're not receiveing too strong RF signals. This will help you to secure your reception. Connect up to 3 diversity receivers.

About antennas :

To get advantages of RF distro you need to use decent passive or active UHF antennas. Directionnal antennas (log periodic) add gain and « select » the area of reception. Active antennas must used with caution, the more you add gain the more you can saturate your distro. Gain must compensate loss in coax between antennas and distro, not more. To calcultate loss in your coax you can measure it of calculate it, it's a straightforward process.

What is needed with AS-62 :

-Power source (10-18V) and power cable (4 point push pull type)

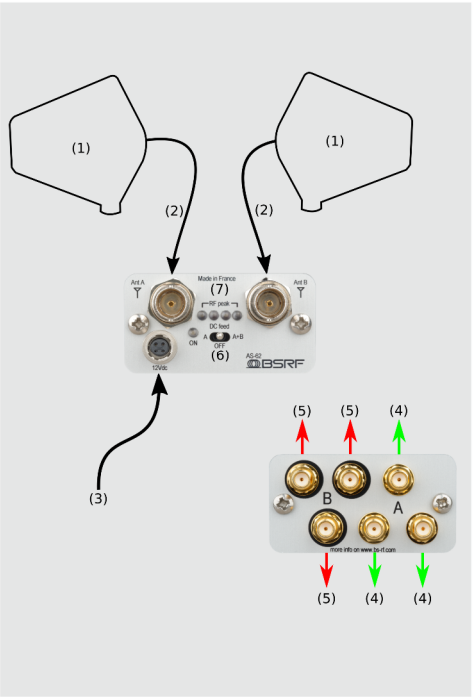
-2 antennas, 2 coax for antennas(BNC), coax for receivers(SMA) and SMA loads for unused ports (recommended)

Description

Connecting :

- Connect antennas (1) with 50 ohms coaxial cables (2) to AS-62
- Connect AS-62 power to DC source/batt. The range is 10-18V, not less not more.

  Pinout : 1,2:GND 3,4:VIN
- Connects receiver's input to AS-62 output using (5&4) with respect of diversity : one receiver input to channel A and the other input to channel B. Put a 50ohms SMA load to unused port (recommended).
- (4) are A channel outputs and (5) are B channel ouputs



DC feed :

- Toggle switch (6) to enable DC feed on corresponding channel. IT's used to supply active antenna or booster.
- DC feed Led (7) will blink if a short or overcurrent occured on the corresponding antenna input.

RF peak :

- RF peak allows you to detect strong signal. It's a concern as if signal overload active circuits it generate noise/intermodulation and this reduce RF coverage or cause dropout (this is true for both analog and digital modulation).
- Led yellow means it's ok but you should keep an eye on it.
- Led red means it must not light permanently

Specifications

Specifications:

Bandwidth	470-700MHz	@-3dB
Gain	0dB	+/-1dB
Max RF in	+20dBm	
Noise figure	<2dB typ.	
Input Matching	-15dB RL	
IMD3	39dBm typ.	
RF peak thresholds	-5dBm (high) -20dBm (low)	+/-1dB
DC feed	12V/200mA	
RF In	2xBNC	50 ohms
RF Out	6xSMA	50 ohms
DC In	4 pts	(-):1&2 (+):3&4
Supply	12-18V	150mA typ. without DC feed
Dimension	83x60x31mm	
Weigth	0,25kg	

(Subject to change without notice)

Warranty

Warranty:

This 2 year limited Warranty covers any defects in material or workmanship under normal use during the Warranty Period. During the Warranty Period, BSRF will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

Send an email first at:

contact@bs-rf.com