Mail : contact@bs-rf.com Tél : 33(0)9 67 85 88 24

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User Manual

AS-122

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Start

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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-122

Introduction :

The AS-122 allows you to optimiseyour RF coverage in your bag or your cart.You can use passive antennas andcompensate loss in cable thanks to the DC-feed supply, distribute RF signals up to 6 diversity receivers. The AS-122's RF peak indicators will tell you when RF field becomes too strong. This will help you to secured your reception from intermodulation. Connect up to 6 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-122 :

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

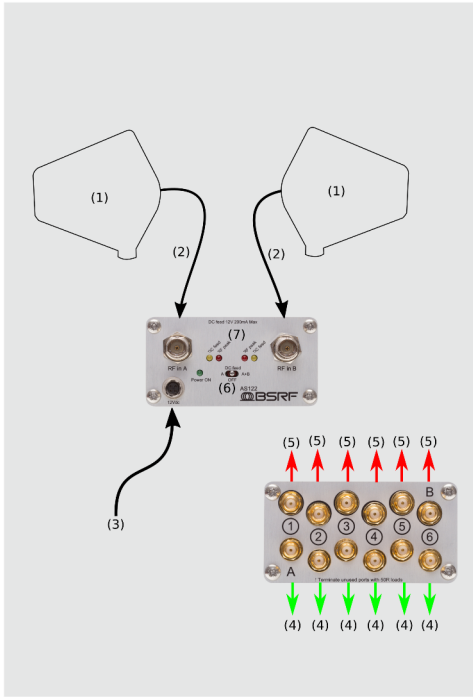
-2 antennas, 2 coax for antennas(BNC), coax for receivers(SMA) and SMA loads for unused ports.

Description

Connecting :

- Connect antennas (1) with 50 ohms coaxial cables (2) to AS-122
- Connect AS-122 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-122 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 ports.
- (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 signal is too strong and it must no light up continuously.

Specifications

Specifications:

Bandwidth	370-700MHz	@-3dB
Gain	1dB	+/-1dB
Max RF in	+15dBm	
Noise figure	<2dB typ.	
Input Matching	-15dB RL	
IMD3	36dBm typ.	
RF peak thresholds	-8dBm	+/-1dB
DC feed	12V/200mA	
RF In	2xBNC	50 ohms
RF Out	12xSMA	50 ohms
DC In	4 pts	(-):1&2 (+):3&4
Supply	10-18V	146mA typ. without DC feed
Dimension	88x84x44mm	
Weigth	0,26kg	

(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:

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