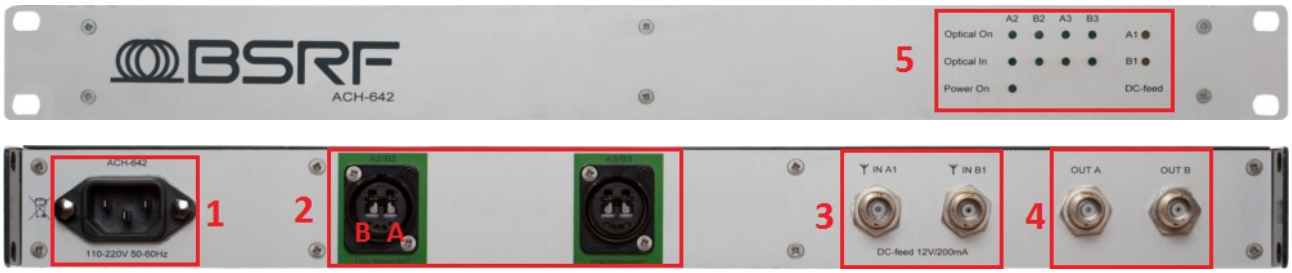
ACH-642

Dual channnel hybrid combiner



Instructions :

Power : Connect your power cord to IEC(1). The green LED **Power On** will light up and the other leds will be tested.

Fiber : Connect one to two remote antennas (AFB-250) on those ports. You can use monomode Neutrik Opticalcon cable (this is the best solution) or use LC/APC patchcord **(you must be able to inspect and clean those connectors, we suggest to always use a new one**).
Be sure you use APC connectors (green connectors) and not PC (blue connectors) unless you request a PC adaptation.
When you plug connector to the socket connectors you should hear a little « click » wich means that it's correctly plugged.
If a AFB-250 is already powered and connected at the other end of the fiber, as soon as you plug the fiber on the base,'s the corresponding **Optical In** green led will light up continuously. If a led blink it means that there is an optical attenuation between the AFB-250 and the ACH-642 (between 3 and 6 dB).
If a led stays off this means there is no optical signal or the optical attenuation is above 6dB.

RF in : Connect your antennas through 50 ohms coaxial cables to connectors (3).
DC feed led (5) light if corresponding DC-feed is activated (it mean a 12Vdc voltage is present at input). If this led blink it means there is a short circuit (It could be connector, cable...).
If you use active antennas set the gain as mentionned in the manufacturer documentation (too much gain will increase intermodulation not enough will reduce RF coverage).
Most passive antenna can be used while the DC feed is active. But if you plan to use magnetic antennas (loop) you'll have to desable DC feed.
DC feed can be disabled with switch inside the base.

More informations on www.bs-rf.com or contact us at contact@bs-rf.com
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RF out : Connect those outputs to your receiver or splitter.

More informations :

-Led **Optical On** (5) light up if the corresponding optical receiver is operationnal.

- «Pin out » of Neutrik Opticalcon figure on (2).

-If you plan to not use « coaxial antennas » you should consider to desactivate DC feed voltage and connect 50ohms BNC loads.

Antennas disposition :

-If you need to optimise coverage in the same space, first try just one pair of antennas and do some walkaround to check coverage. Then add another pair of antennas in the area where you want more signal. Redo the test.

- If antennas from different port are two close from each other, this could lead to multipath loss. When multipath loss occure you get fast RF attenuation leading to a fast audio lost and recover. If you does'nt know much about it please contact us we'll be pleased to help you on your project.