

# Hybrids



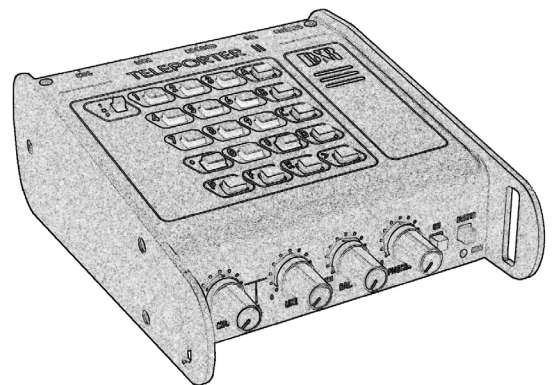
Passive Hybrid-1



Active Hybrid-2



Teleporter-2



*Smart in Solutions*



### TELEPHONE HYBRID-1

D&R's passive Telephone Hybrid-1 is an interface between a standard analog telephone line and a mixing console. Its purpose is to enable to record or broadcast a conversation between a caller and a presenter in an easy way. Excellent audio separation between in and outgoing signals are achieved by carefully designed internal circuitry. It is a problem solver for changing two wire communication into a four wire system with separate in and outputs. The unit is housed inside a 9.5" metal frame. Input and outputs are on jacks and phone connections on RJ-11 connectors. A reliable and stable unit not needing any external power.

#### Highlights:

- Passive balancing interface.
- Output: Mic level -20dBu, balanced.
- Input level: line level 0dBu balanced.
- R/C balance: fully adjustable.
- Separation: more than 30dB.

### TELEPHONE HYBRID-2

D&R's Telephone Hybrid-2 is the active version of the well known passive one, described above. Its concept originates from many demands for a more sophisticated hybrid with more features. The Telephone Hybrid-2 is an analog unit with digital control and features like ducking making intelligibility a lot better in broadcast.

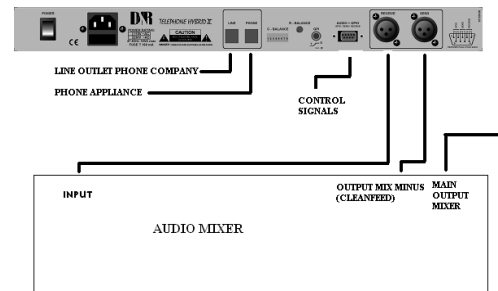


#### System description

A large ring button enables you to pick up the line from the unit itself or from your mixer when connected via its GPIO to the telephone Hybrid. Both levels of receive and send can be adjusted to suit your requirements. Incoming signals can be tailored by the variable high and low cut signal while talking to people calling the station. A ducking system reduces the incoming signal while talking to people calling the station. Input and outputs on XLR's, jack, 9 pin Sub-D and RJ-11 connectors.

#### Highlights:

- Active balanced interfacing.
- Variable High and low cut filters.
- Superb audio separation.
- Externally adjustable R and C balance.
- Remote controllable.
- GPIO interfacing with mixing consoles.



### TELEPORTER-2

The Teleporter 2 is a self powered field news gathering device that works fine in the sports broadcast booth as well. The Teleporter 2 is a good-sounding, easy-to-understand mixer/telephone box with a number of features both play-by-play announcers and reporters will appreciate. The transformers float the grounds of the plug-in gear so hum is stopped before it gets on the phone line. A limiter inside the Teleporter 2 keeps line send levels tame. The Teleporter 2 has inputs for one mic and a line-level device. Inputs and outputs are on balanced metal XLR connectors and a RJ-11 connector for the phone line. Someday, all telephone lines everywhere will be fast enough to handle digital POTS Codecs without difficulty. However, until that day, if your project can tolerate the limited bandwidth of telephonic audio, the D&R Teleporter 2 can mix and send satisfactory audio to the station. And... doing it without batteries is a pretty cool trick!

#### Highlights:

- Pulse and DTMF dialling.
- 23 digit capacity for dialling.
- memory clear.
- Dual redial buffers for PBAX and public calls.
- Dynamic limiting.
- Line loss compensation.
- Automatic disabling of the DTMF amp in extreme low voltage conditions.

