

## BUYER'S GUIDE

### SONIFEX DHY-03 USES DSP

**IRTHLINGBOROUGH, ENGLAND** — Sonifex offers two telephone hybrids, the analog-based HY-03 range, offering 30 dB typical rejection, and the DSP-based DHY-03 unit with a rejection ratio of 70 to 80 dB.



The DHY-03 has impedance matching between the central exchange and the hybrid. It can cope with impedances from many foreign exchanges and some digital exchanges and can detect and match to the line impedance that it is connected to.

Two echo cancellation routines run using internal memory allowing echo cancellation to 127  $\mu$ sec and improved distortion of other mixed signals. This improves the hybrid's ability to take calls on mobile phones, or where there are other delays, such as satellite and conference calls.

The system is able to perform local acoustic echo cancellation. This is used when there is feedback from the audio output to the audio input, usually because the output is sent to speakers and is picked up by a microphone input. It performs an echo cancellation algorithm on the return signal and subtracts the content due to the original caller from the signal sent to the line.

The DHY-03 has a balanced mic/line input and a balanced line output from and to the mixer, with input and output gain adjustment from and to the telephone line, respectively, along with input and output metering of these signals. Users can switch from local to remote line hold either by using the front-panel pushbutton, by serial connection or by using a GPI remote input, usually connected to the on-air mixer.

**For information, contact Sonifex in England at telephone +44-1933-650-700 or visit [www.sonifex.co.uk](http://www.sonifex.co.uk).**