

DUAL DIVERSITY HOUSING



Dual Diversity Housing (DDH) was first designed in early 1990's and has since then proved to be very popular among location sound recordists for documentaries, filming and on location recording. The DDH-3 is the third generation specialist system housing for SDR receivers, designed with the location sound recordist in mind.

The DDH-3 can be used singly, as a two-channel system, or it can be cascaded to form a portable, four-channel solution; all can be powered by a single battery pack. Its small lightweight construction and conveniently placed connectors makes the DDH-3 ideal for use with a mobile mixer.

External power is supplied via a 4-pin Hirose connector. Each receiver is phantom powered from an external DC source via the internal band-pass RF distribution amplifier. Antenna connections travel via mini UHF SMA connectors. Additional RF/DC outputs allow the system to be expanded to a 4channel system, with yet another DDH3 or SDR on the same frequency band being driven from the same source.

Renowned for being amongst the most natural sounding radio microphone systems available, all Micron transmitters and receivers are fitted with the unique Micron Noise Suppression system not just to maximise dynamic range, but also for transient performance and interference immunity.

Freelance sound recordists as well as major broadcasters use micron systems worldwide for all wireless microphone applications.

DDH-3

- ▣ Holds two SDR Small Diversity Receivers
- ▣ One pair of antennas feeds both receivers via built-in band-pass filtering and signal splitters
- ▣ Powers receivers via antenna sockets - no internal batteries
- ▣ Additional RF/DC outputs allow 4-channel operations from a single pair of antennas
- ▣ Compact, lightweight and rugged - fits neatly onto ENG mixers
- ▣ Conveniently placed industry standard connectors for audio output and DC input/output
- ▣ Internal Balanced Audio Outputs
- ▣ Single power source can drive a DDH-3, mixer or a recorder
- ▣ ON-OFF switch with continuous battery level monitoring

TECHNICAL SPECIFICATION

RF DISTRIBUTION SYSTEM

Frequency Range (to order)	470 to 865
Input impedance	50 Ω
Output Impedance	50 Ω
Gain(each output)	Unity (nom.)
Current consumption	270mA (max. including two receivers)

UHF BANDPASS TYPE

Bandwidth	32MHz(nom.)
3 rd order intercept point @ input	>+20dBm
Skirt Selectivity	>30dB@20MHz (from F1 and >15dB from F2@ Fc=650MHz)
Port to port isolation	>30dB
Noise Figure	<3 dB

CONNECTIONS

RF inputs	2 x 50 Ω mini UHF SMA sockets
RF/DC outputs to receivers	4 x 50 Ω mini UHF SMA plugs
RF/DC outputs to slave unit	2 x 50 Ω mini UHF SMA sockets
Audio Outputs	2 x 3-pin XLR Hirose plugs
Power	2 x 4-pin Hirose sockets in parallel (pin 1 -ve, pin 4 +ve)

POWERING

External Power	9-18V @ 1A (min.)
Phantom DC to Receivers	9V dc (regulated)
Phantom DC to Slave unit	9-16V dc (unregulated- optional)
MHA Powering @ RF inputs	Optional MHA Powering (internal link), 9Vdc @ 100mA max.

AUDIO OUTPUT LEVELS

Audio output - Line outputs	Transmitter @ nominal deviation and Receiver volume @ max. 0dBV (1.0V _{rms}) \pm 2dB(standard)
Audio output - Mic outputs	-37dBV (14.1mV _{rms}) \pm 2dB(optional, internal fixed attenuators fitted)

OUTER CASE

Dimensions	258x33x143mm (W x H x D)
Weight	1.0kg (with receivers)

ACCESSORIES SUPPLIED

Pair of antennae in the frequency operating band
Hirose to Hirose power cable
Instruction manual