





TopHat Multiple Headphone Amps With Monitoring and Talkback

The Top Hat range incorporates muliple headphone amps with talkback and monitoring. In many environments where multiple headphone amps are required, the Top Hat range provides these with the inclusion of talkback facilities.

Key Points

- Suitable for studio and outside broadcast applications
- Multiple headphone amps with talkback and monitoring
- Individual monitoring mixes per headphone amp
- Engineer talkback to all sources (M4 only)
- External producer talkback (M4 Only)
- Compact (M3) and 1U 19" (M4) variations

Features

Top Hat M4 Headphone Amp With Separate Talkback Boxes

The Top HAT M4 is a headphone amplifier/talkback unit housed in a 1U 19" subrack with two accompanying producer talkback boxes. Each Producer's box is connected via XLR, has a gooseneck microphone and a series of one-way talkback destinations.

Features

- 4 headphone amplifiers with 3 input mixer and engineer talkback
- 2 Producers' boxes with talkback to all headphone amps and master talkback circuits
- 5 master talkback circuits
- Engineer talkback to all headphone amps and master talkback circuits

Four Headphone Amplifiers

The Top Hat M4 has four separate headphone amplifiers each with its own three channel mixer and interruptible talkback from the engineer and both producer boxes. Each headphone amp connects via a single XLR located on the rear panel.

Four Sources

The unit has facility for four sources; input 1, input 2, cue, and clean feed, connected to the rear panel via a D25 socket. Each source has a corresponding input gain POT located on the front panel.

Three Input Mixer Per Headphone Amp

Each headphone amplifier has a 3 input mixer to include either input 1 or input 2, an external input and cue or clean feed, for unique individual mixes. The left ear, both and right ear mixes are adjusted via corresponding POTS located on the front panel. Configuration is as follows;

- Input 1 or input 2: selectable via the toggle switch, mixes into the left ear with volume adjustment via the 'left' POT.
- Each headphone amplifier has its own unique external input: mixes into both ears with volume adjustment via the 'both' POT.
- Cue or clean feed: selectable via the toggle switch, mixes into the right ear with volume adjustment via the 'right' POT.

All inputs connect via a D15 socket.

Headphone Amp Talkback/Output

Interruptible (to the right ear mix) talkback using the white momentary push buttons on each headphone amp/producers' box can be routed from three locations;

- 1. Producer Box 1 (indicated via the illuminated LED on the headphone amplifier)
- 2. Producer Box 2 (indicated via the illuminated LED on the headphone amplifier)
- 3. Engineer by pressing the white button on the front panel.

Master Talkback/Output

There are five separate interruptible talkback circuits all using momentary push buttons;

- 1. RTB1 from both Producer 1 and 2 (Blue)
- 2. O/P1 from Producer 1 (Yellow)
- 3. O/P2 from Producer 2 (Yellow)
- 4. BASE 1 from Producer 1 (Red with a toggle switch for enabling button to ensure intended talkback interruption)
- 5. BASE 2 from Producer 2 (Red with a toggle switch for enabling button to ensure intended talkback interruption)

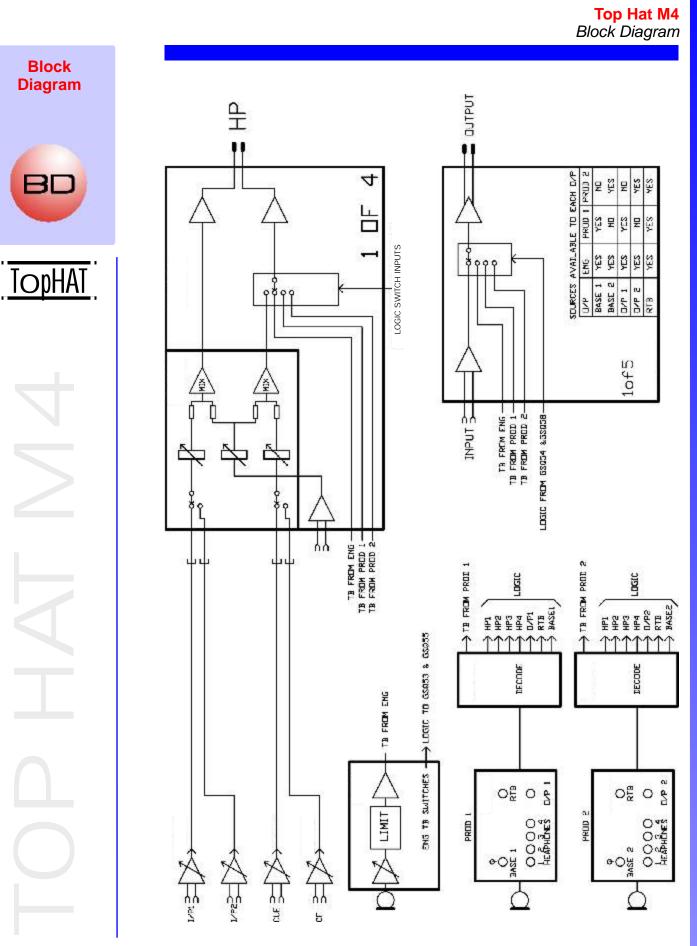
All five talkback circuits are available to the engineer on the base station via the front panel located adjacent to the talkback microphone. BASE 1 and BASE 2 circuits use a toggle switch for enabling the button to ensure intended talkback interruption.

Power

The 1U rack is mains powered. Producers' Boxes are powered via the connecting XLR.



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Images





Top Hat M3



FRONT VIEW



LEFT VIEW



www.glensound.co.uk



RIGHT VIEW



REAR VIEW



FRONT VIEW



REAR VIEW

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Top Hat M3

Compact headphone amp with monitoring and loops

Features

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TopHAT

The Top HAT M3 is a compact mixing headphone amplifier designed to provide flexible features for monitoring in an outside broadcast environment.

Features

- Two compact mixing headphone amplifiers
- Three outputs on each headphone amplifier
- Four inputs produce an individual mix per headphone amp
- Single talkback circuit
- Mic input has compressor/limiter and is controlled via a sturdy front panel lever switch
- RJ45 connections for looping multiple Top HAT M3s
- 2 x C cell battery or external DC power

Two Headphone Amplifiers

The Top HAT M3 features two separate headphone amplifiers. Each amplifier has 3 individual 6.35mm jack sockets for headphone monitoring, therefore the unit provides monitoring for 6 pairs of headphones.

Four Input Mixer

Both headphone amplifiers are fed via a mix of the 4 common inputs. The inputs are on XLRs and there are variable POTS for each input to create the required mix. There are 2 sets of the 4 variable POTS allowing separate mixes to be created for each of the two headphone amplifiers.

Outputs

In addition to the 3 x 6.35mm jack sockets available for headphone monitoring on each headphone amplifier, there is also a master output available on XLR; this output can be switched to either MIX 1 or MIX2

Talkback

There is an XLR input for a talkback mic with adjustable gain control and a compressor/limiter. The talkback mic is switched to the XLR talkback mic output via a front panel lever key. The lever key is momentary when pushed down and locks when pushed up.

Loops

The Top HAT M3 features 2 x RJ45 connections for looping audio between units. The input connection is in parallel to the main inputs and contains the audio for the 4 inputs. The output connection simply loops the 4 audio inputs for linking to further units using normal CAT5 cable.

Power

The Top Hat M3 is powered by 2 x C cell batteries or optional external DC power. As the battery level decreases there is a lower power LED for indication; as the level drops, the LED will start to flash faster and faster.

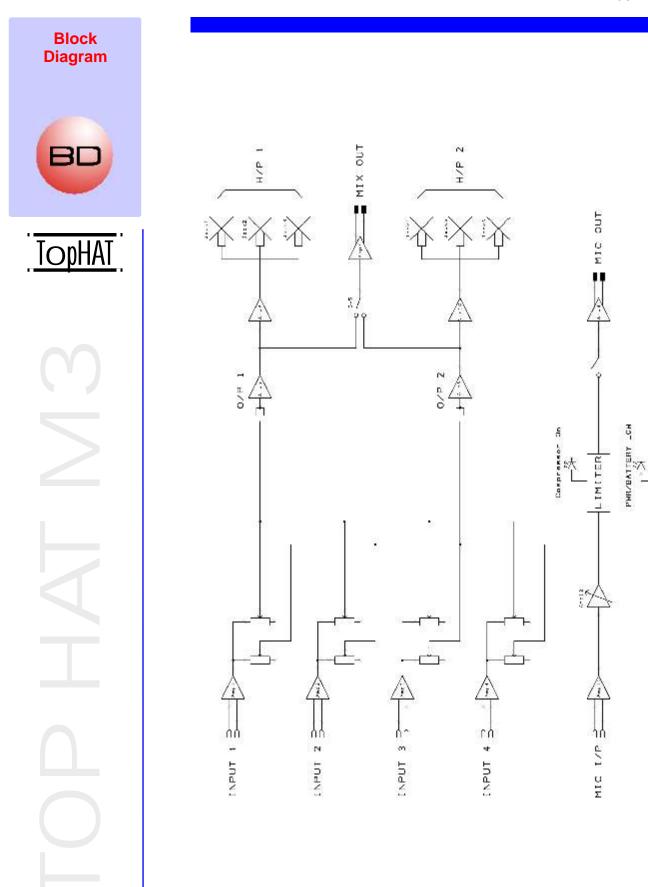
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Top Hat M3 Block Diagram

> +12V EV -12V

> > PSU

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GENERAL SPECIFICATIONS TOP HAT M4 (1U SUBRACK)

HEIGHT WIDTH DEPTH (Excluding external connectors) POWER INPUT POWER CONSUMPTION

TOP HAT M3 (COMPACT) HEIGHT WIDTH **DEPTH (Excluding external connectors)** POWER INPUT

TOP HAT M4 INPUT CIRCUIT TYPE

ALL HEADPHONE SOURCES CONNECTORS TALKBACK INPUT SOURCES CONNECTORS INPUT GAIN FREQUENCY RESPONSE HEADPHONE INPUT NOISE AT LINE UP

TOP HAT M4 OUTPUT CIRCUIT TYPE TALKBACK OUTPUT CONNECTOR HEADPHONE OUTPUT HEADPHONE OUTPUT LEVEL CONTROL MAX HEADPHONE OUTPUT LEVEL HEADPHONE OUTPUT OPTIMIZATION

PRODUCERS BOX CONNECTION LINK

TOP HAT M3 SPECIFICATION TBA

1U 19" 234mm 100-250AC 2.8 Watts @ 230V

51mm 250mm 140mm 'C' Cells or External 'B' Type USB

Electronically balanced D25 Socket D15 Socket -20dBU to +10dBU -1dBu @40Hz to 20kHz -78Dbu 22-22kHz RMS

Electronically balanced nominal 50 Ohms D15 Plug XLR 3 Pin Plug -20dBU to +10dBU +18dBU into 600 Ohm output 200-2000 Ohms

XLR (standard microphone cable)

Your local dealer:

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