



FlashMic DRM85

DIGITAL RECORDING MICROPHONE





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The HNB FlashMic is the world's first professional digital recording microphone. It combines a high-quality, Sennheiser omni-directional condenser capsule with an inbuilt, broadcast-quality Flash recorder. FlashMic is a convenient, easy to operate and durable recorder that's perfect for use in all voice recording applications, including press and broadcast journalism, radio interviewing, podcasting, meetings, etc.

With no messy cables, just one button press is all it takes to start recording in either linear or MPEG 2 formats. Simple 'drag and drop' file transfer at up to 70x real time to a Mac or PC for editing or onward transmission is enabled by a 'plug and play' USB connection. Two AA batteries provide more than 8 hours continuous power and, with a 0 - 10 seconds pre-record buffer and 1GB of flash memory, you can be sure that you'll never miss a word of

that important interview with a FlashMic. With a total capacity of 999 tracks and more than 18 hours recording to 1GB of internal Flash memory, FlashMic entirely eliminates the worry of running out of tape or disc space. Holding the record button down for more than 2 seconds locks the FlashMic in record mode for complete security during, for instance, podium recordings, and visible warnings of low battery life and low recording memory add further peace of mind.

Pressing the record button briefly during a recording inserts a location marker which can be read by popular editing applications.

FLASHMIC MANAGER SOFTWARE FOR STREAMLINED WORKFLOW

With AA batteries included as standard, the FlashMic operates 'straight out of the box'. However journalists and news organisations

KEY FEATURES

- Convenient, portable and extremely easy to use
- Rugged build quality, designed to withstand the rigours of portable recording
- High-quality, omni-directional Sennheiser condenser microphone capsule for broadcast-quality recording
- Very high quality microphone preamplifier with full manual or automatic gain control (AGC)
- 1GB Flash memory for digital audio recording
- Maximum record time of over 18 hours (see over for table of record times)
- LCD display with backlight for time, level and status information
- USB-Interface for transfer of audio data (configured as a mass storage device), also used for configuration presets and FlashMic firmware updates
- Headphone amplifier with volume control
- 9 user templates can be configured externally using the FlashMic Manager PC/Mac software supplied
- Real time clock. Time-date can be updated from the mic or when linked to host PC/Mac
- Uses 2 x standard AA or rechargeable AA batteries
- Battery remaining indicator with visible low battery warning
- Battery life greater than 8 hours (1500mAh primary cells)
- Pre record buffer adjustable from 0-10 seconds
- Records linear 32, 44.1 or 48kHz, or MPEG 1 Layer 2 encoded audio (128 - 192 kbps) broadcast wave (.wav) files, including time stamp.
- Simple mode of operation where presets from external PC/Mac templates can be recalled
- Expert mode of operation where all variables are accessible on the FlashMic
- Record time remaining indicator with low time remaining visible warning
- Switchable high pass filter, 12dB/octave @ 100Hz



will welcome the included FlashMic Manager PC/Macintosh software to configure the FlashMic for specific applications and streamlined workflow.

In an organisation with multiple users, every FlashMic can be given its own name which appears in every track name recorded by that microphone. Alongside the major recorder functions (see panel right), the 9 user presets can be used to store a session name which also appears in the track names. So, when FlashMic JOHN is interviewing Oasis in the morning and the ENO in the afternoon, track file names can be pre-configured as JOHN_OASIS_TRK001, etc., and JOHN_ENO_TRK020, etc. A Company Name, Reporter Name and Reporter's Notes can be stored with each preset, which is embedded in every file along with the Date and Time stamp, providing users with an unrivalled range of facilities for the naming and organisation of files.

DRAG AND DROP FILE TRANSFER

Downloading recordings to Macintosh or PC computers is extremely straightforward. Connecting via USB with the cable supplied, files are transferred from the FlashMic using Windows Explorer or the Macintosh Finder. The FlashMic mounts as a USB mass storage device, and the audio files appear in a folder in the root directory.

ALL THE PRESENCE OF A SERIOUS BROADCAST MICROPHONE

Alongside the obvious advantages of pristine sound quality, ease-of-use, dependability and enhanced workflow, FlashMic also brings the additional benefit of an imposing physical presence – which, as experienced journalists know, can be invaluable in a 'media scrum'!

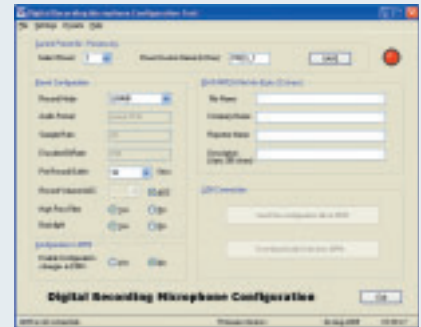
FLASHMIC MANAGER SOFTWARE

FlashMic Manager PC/Mac software (supplied) allows FlashMic functions to be configured and stored in 9 user presets. Presets can be set-up and then downloaded to non-volatile memory in the FlashMic via its USB port.

- Function 1** Select record mode.
- Function 2** Pre record buffer adjustable from 0 – 10 seconds in 2 second steps.
- Function 3** Record volume, set to either AGC (Automatic Gain Control) or a manual figure 1 – 50.
- Function 4** High pass filter (12dB / Octave @ 100Hz) on or off.
- Function 5** LCD backlight – on, off or powersave.
- Function 6** Enable configuration in DRM85. When set to 'Yes', EXPERT mode is engaged and many functions may be configured from the mic itself. If this parameter is set to NO, then users can only access the preset, and not the manual settings.

BWF/MPEG file information can be entered in the fields on the right hand side of the FlashMic Manager window. This will then be written into the extensions in the audio file to enable easy identification of recordings.

For convenience of use, the headphone level is set at a default value, and is not set as part of the FlashMic Manager software. It can be manually adjusted from the mic via a rotary control.



FlashMic screen and on-body controls

RECORDING TIMES

Record Mode	Audio Format	Sample Rate	MPEG Bitrate	Recording Time
LIN48K	Linear PCM	48 kHz	--	3 hrs 00 mins
LIN44.1K	Linear PCM	44.1kHz	--	3 hrs 15 mins
LIN32K	Linear PCM	32 kHz	--	4 hrs 30 mins
MP48K	MPEG1 Layer 2	48 kHz	192 kbps	12 hrs 15 mins
MP44.1K	MPEG1 Layer 2	44.1 kHz	160 kbps	14 hrs 40 mins
MP32K	MPEG1 Layer 2	32 kHz	128 kbps	18 hrs 25 mins

CAPSULE



The high-quality Sennheiser omnidirectional microphone capsule is specially shock-mounted to minimise the transference of mechanical and handling noise through the microphone body.

CONNECTIVITY

FlashMic has a built in USB port for fast transfer of recorded data to a computer. Both USB 1.1 and USB 2.0 protocols are supported.

The headphone socket accepts a standard 3.5mm jack. The mono signal from the A/D converter is buffered and sent to both channels of the headphone jack. The output from the headphone socket can also be connected to the analogue line-in on any soundcard, should external recording be required.



STANDARD AA BATTERY POWER

Standard AA batteries provide power for more than 8 hours continuous recording and can be changed quickly by simply unscrewing the microphone body.

The LCD display warns of low battery power before ultimately saving the current recording and shutting down the FlashMic.



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COMPLETE PACKAGE

The FlashMic comes complete with a pouch, stand clamp, USB cable, FlashMic Manager software, 2 x AA batteries and user manual.



The DRMWS Windshield and DRMTS Table Stand are available as optional accessories.



Sampling Frequency	48kHz, 44.1kHz, 32kHz. Selection by FlashMic Manager software or on DRM85.
Bit Resolution (Linear)	16 Bit
Audio Formats	Linear PCM or MPEG 1 Layer 2, Selection by FlashMic Manager software or on DRM85. 6 mode settings
Bitrates (MPEG)	192, 160, 128 kbps
Frequency Response (Recorder)	20 Hz - 20 kHz \pm 1dB @ 48 kHz FS Linear PCM
THD + N	< 0.1% (20 Hz - 20 kHz) @ 48 kHz FS Linear PCM
Number of Channels	1 (Mono)
Microphone Capsule	Omni-directional
Record Level	Automatic Gain Control (AGC = on), Manual Gain Control (AGC = off)
High Pass Filter	Switchable on/off, 12 dB/octave @ 100Hz
Data Storage System	Fixed internal memory, capacity 1 GB.
Date / Time	Internal real-time clock, running as long as power supply is available. Back-up supply for 1 minute to allow battery change. Set / synchronized by host computer application according to host computer clock. Manual setting on DRM85 by menu item.
File Format	Broadcast wave file (.wav). Linear PCM or MPEG 1 Layer 2 compressed. Date / Time stamp is stored in file header. Filename generated automatically by DRM85, basic text string provided from PC software.
File System	FAT. Mounts as a removable drive via USB mass storage device protocol. File transfer is possible with the FlashMic Manager software or through Windows Explorer and Mac OS Finder.
Headphone Output	3.5mm stereo socket, mono signal to both channels. Manual volume control by rotary switch. Output may be used for audio recording on PC. Drive capability for 32 Ω headphone, short circuit protection.
Optional Accessories	Wind shield, table stand.
Weight	366 grammes / 13 ounces (excluding batteries)
Dimensions	Length 244mm / 9.6 inches. Diameter at widest point (mic capsule) 50mm, 2 inches.



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