

Multi-track technology for the 21st century

BLACKBOX BBR1MP RECORDER

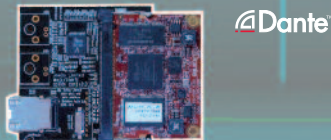
Live multi-channel audio acquisition for broadcast, location, film and TV sound applications

BLACKBOX BBR1MP ADD-ONS

MADI OPTION CARD



DANTE OPTION CARD



BBR1MP XLR BREAKOUT BOX



24 channels • 24 integrated mic preamps • 24bit/96kHz quality

Based on JoeCo's award-winning BlackBox Recorder technology, the new BlackBox BBR1MP Recorder is a stand-alone, live, multi-channel audio acquisition solution primarily designed with the broadcast engineer and location sound recordist in mind.

The 24-channel recorder offers all the standard BlackBox features as well as 24 high-quality microphone preamps, operating at up to 24bit/96kHz, which are integrated into the recorder's tiny 1U housing. The **BBR1MP** features a range of connection options including individually switchable mic/line inputs and balanced outputs, video sync, timecode and word clock inputs. User installable Dante and MADI interface cards are also available as options, adding 24 channels of Dante or MADI i/o to the **BBR1MP** unit. Microphones can either be connected to the unit via tails from the rear D-Sub connectors, or via an optional 2U breakout panel with XLR connectors. System components are available individually or as part of a bundle.

Audio is recorded direct to external USB2 drive in Broadcast WAV format for instant ingest into post production. Alongside the **BBR1MP**'s multi-channel recording capabilities, provision is included for creating a simultaneous stereo mixdown. Full support for iXML data is also provided.

The **BBR1MP** will run off a 12V power source. Unused channels and features can be disabled in order to preserve battery life on location. The unit is fully controllable via JoeCoRemote for iPad. This includes the facility to set up individual mic pre channel parameters - level, mic/line, phantom power, hi-pass filter, soft limiter and phase reverse. Levels are shown on high resolution meters and the monitor mix can be adjusted using expandable channel strips with graphic faders, pan, solo, mute and other parameter controls.

The **BBR1MP**'s compact dimensions, high-quality mic preamps and converters make it a practical, elegant solution for a range of broadcast applications, as well as for live engineers needing a portable multi-channel recording option.

Features:

- 24-channel record or playback at up to 24bit/96kHz
- 24 high-quality integrated mic preamps (24bit/96kHz operation)
- Microphone connection via tails from D-Sub connectors, or optional 2U breakout panel with XLR connectors
- Runs off 12V power source for location use
- Remote set-up, control and monitoring via JoeCoRemote for iPad
- Multiple connection options: switchable mic/line inputs, balanced outputs
- User installable optional Dante or MADI cards for 24 channels of Dante or MADI i/o
- MADI outputs from a pair of BBR1MPs can be automatically combined into a single 48-channel data stream
- Records standard broadcast WAV files to an external USB2/3 drive. Captured audio material can be imported into any digital workstation for instant re-purposing. No file transfer necessary
- Can also store iXML data in BWA files
- Synchronisation options: timecode, word clock, video sync
- Simultaneous stereo mixdown during recording
- Safe'n'Sound Record Recovery protects files in case of power failure

Technical Specifications:

General

Sample rates	44.1kHz, 48kHz, 88.2kHz, 96kHz
Bit depth	16 / 24bit
Disk interface	USB2 (compatible with USB3)
Disk format	FAT32 - compatible with both Mac and PC
File format	Broadcast WAV (BWA)
External drive	USB2/3 hard drive or fast memory stick
File type	Standard mono Broadcast WAV or multi-channel WAV
User interface	Primarily designed for use with the JoeCoRemote iPad app, the unit can also be configured directly from the front panel

Audio i/o

Record/playback	Up to 24 channels @ up to 96kHz / 24 bit
Inputs	Switchable microphone / line inputs on channel by channel basis
Mic preamps	Gain: 0 - +60dB continuously variable; Soft limiter: software selectable on/off; Hi-pass filter: -6dB @ 100Hz, 12dB/octave Max input level: +21dBu EIN: < -124dBu (20-22kHz) THD: < -110dBFS (20-22kHz @ -10dBFS input) Cross talk rejection > 80dB @ 20kHz ZIN: >10kOhm (single ended); >2kOhm (differential)
Outputs	Line level balanced outputs (+21dBu = 0dBFS)
E-E	THD+N E-E: < -90 dBFS (unity gain, 20 - 22kHz, unweighted) Frequency response: > +/- 0.5dB, 20-40kHz @ 96kHz sampling
Monitoring	Front-mounted ¼" TRS jack socket: headphone mix, PFL, solo etc (Engineer); Rear-mounted ¼" jack socket for headphone mix only (Director)

Control and Synchronisation

Audio clock synchronisation	Word clock, Video reference and SMPTE linear timecode (all std frame rates supported), AES/EBU or SPDIF clock
Control	JoeCoRemote for full control; Sony 9-pin and MIDI (MMC) for transport controls
Physical	19" rack-mounted 1U (435x44x170mm) - >3kg Optional 19" rack-mounted 2U breakout panel (XLR) (475mm x 88mm x 35mm) 1kg
Power	12V dc (Kycon 4-pole connector), 35W max. External universal PSU included

JoeCo products are available from:

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