JoeCo

Multi-track technology for the 21st century

BLUEBOX BBWR2MP
WORKSTATION INTERFACE RECORDER

Multi-channel workstation interface with integrated live recorder

JoeCo

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

Based on JoeCo's award-winning BlackBox Recorder technology, the new BlueBox BBWR2MP Workstation Interface Recorder is both a high quality multi-channel audio interface for a DAW and a stand-alone, live, multi-channel audio acquisition solution. The unit includes 24 high-quality microphone preamps, 24 line level outputs and 2 stereo headphone outputs all operating at up to 24bit/96kHz, with a full duplex interface to your DAW. There's also a built in 24-channel recorder offering all the standard BlackBox Recorder features, all integrated into the tiny 1U housing.

In a Live environment, the BBWR2MP can be used as a primary recorder, with all audio files being recorded to an external USB2/3 drive as Broadcast WAV files whilst the workstation interface can feed a laptop running DAW software as a backup if required. In a Studio, roles can be reversed with BBWR2MP feeding multi-channel audio to the DAW as the primary recorder with the recorder section of the BBWR2MP acting as a backup recorder. Low latency direct monitoring is provided for in the integrated mixer

The BBWR2MP features a range of connection options including 24 individually switchable mic/line inputs, 24 balanced outputs, artist and engineer's headphone outputs, video sync, timecode and word clock inputs. 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.

Local audio is recorded direct to external USB2/3 drive in Broadcast WAV format for instant ingest into your DAW when required. Alongside the BBWR2MP's multi-channel interface and recording capabilities, provision is included for creating a simultaneous stereo mixdown. Full support for iXML data is provided and the BBWR2MP will run off a 12V power source if required while unused channels and features can be disabled in order to preserve battery life on location. The unit is fully controllable from the custom on-screen window that you can use along with your workstation or 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 BlueBox BBWR2MP's compact dimensions, high-quality mic preamps and converters make it a practical, elegant solution for a range of studio applications, as well as for live engineers needing a portable multi-channel recording option giving unprecedented access to your workstation for external summing mixer or full mixing board and multichannel record and overdub on workstation.

Features:

- 24 channel mic/line recording to workstation at 24bit/96kHz

- 24 channel analogue output from workstation at 24bit/96kHz simultaneously

- 24-channel simultaneous local recording or playback at 24bit/96kHz

- 24 high-quality integrated mic preamps (full 24bit/96kHz operation)

- Microphone or Line level connection via tails from DSub connectors, or optional 2U breakout panel with XLR connectors

- Synchronisation options: timecode, word clock, video sync

- Remote control, monitoring and set-up via computer interface or via JoeCoRemote for iPad

- Multiple connection options: switchable mic/line inputs, balanced outputs

- 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 store iXML data in BWAV files

- Simultaneous stereo mixdown during recording

- Runs off 12V power source for location use

- Safe'n'Sound Record Recovery protects files in case of power failure

Technical Specifications:

General	44.1kHz, 48kHz, 88.2kHz, 96kHz
Sample rates	16 / 24bit
Bit depth	
Workstation	24 channels / 24 bit / 96kHz to and from DAW simultaneously
Capacity	USB2
Interface	Typically 6.9mS round trip at 96k without plug ins;
Latency	local zero latency mixer for artist foldback
Drivers	Apple Core Audio ™
	Microsoft Windows™ WDF driver
Control	Custom on screen window on workstation or JoeCoRemote for iPad
Recorder	
Disk interface	USB2 (compatible with USB3)
Disk format	FAT32 – compatible with both Mac and PC
File format	Broadcast WAV (BWAV)
External drive	USB2/3 hard drive or fast memory stick
File type	Standard mono Broadcast WAV or multi-channel WAV
User interface	On screen Control from DAW or via 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)
	Artist's stereo headphone output
	Engineer's stereo headphone output with PFL facility
E-E Monitoring	THD+N E-E: < -90 dBFS (unity gain, 20 - 22kHz, unweighted)
	Frequency response: > +/- 0.5dB, 20-40kHz @ 96kHz sampling
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	On screen control;
	JoeCoRemote for iPad;
	GPI, 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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