

CIMIX

Broadcast mixers



CIMIX is the ideal mixer for radio broadcasting

Based on the year long experience Mandozzi has gained with the digital *Gmix* and *Serix* mixers, the company supplies a new mixer that offers the same operational features as the larger mixers. CIMIX is the ideal broadcasting solution due to its comfortable control facilities and touch screen surfaces. Available in a convenient table-top frame or modular version.

Table-top mixer surface with 12 faders

Multifunctional OLED display

Freely configurable function menu

Direct control of busses

Direct access to the fader function



Configurable dB meter

Monitoring sources with swap function between mixer and studio

Solid aluminium body

Customizable intercom menu

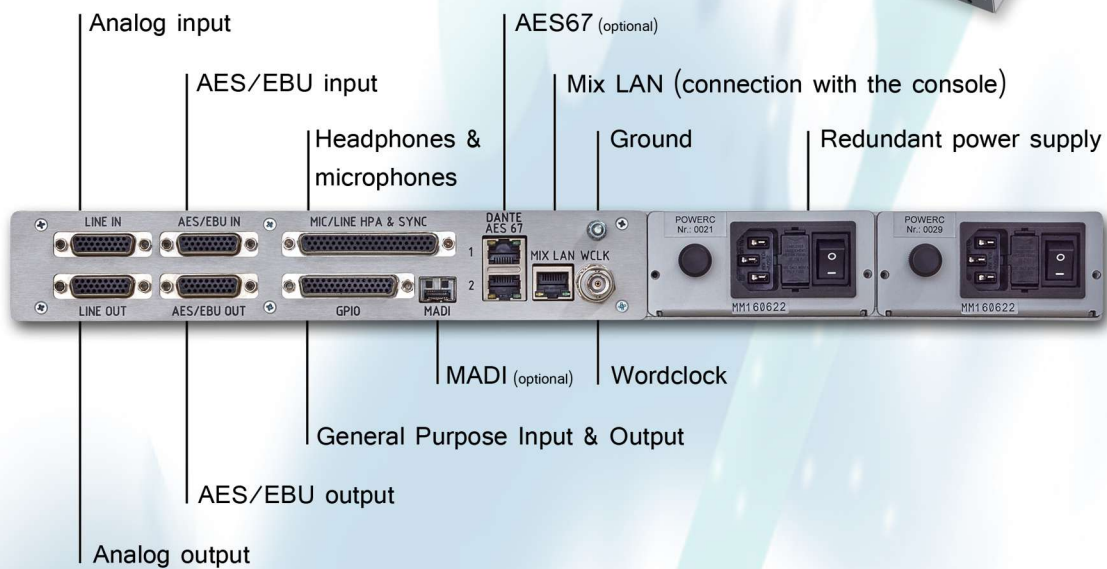
The ease of using CIMIX makes it a precious tool

The sophisticated, easy to use technical features are ideal for self operators and sound technicians who can manage several interacting studios. More CIMIX units (table-top or modular) can be connected together to create a network of interacting mixers.

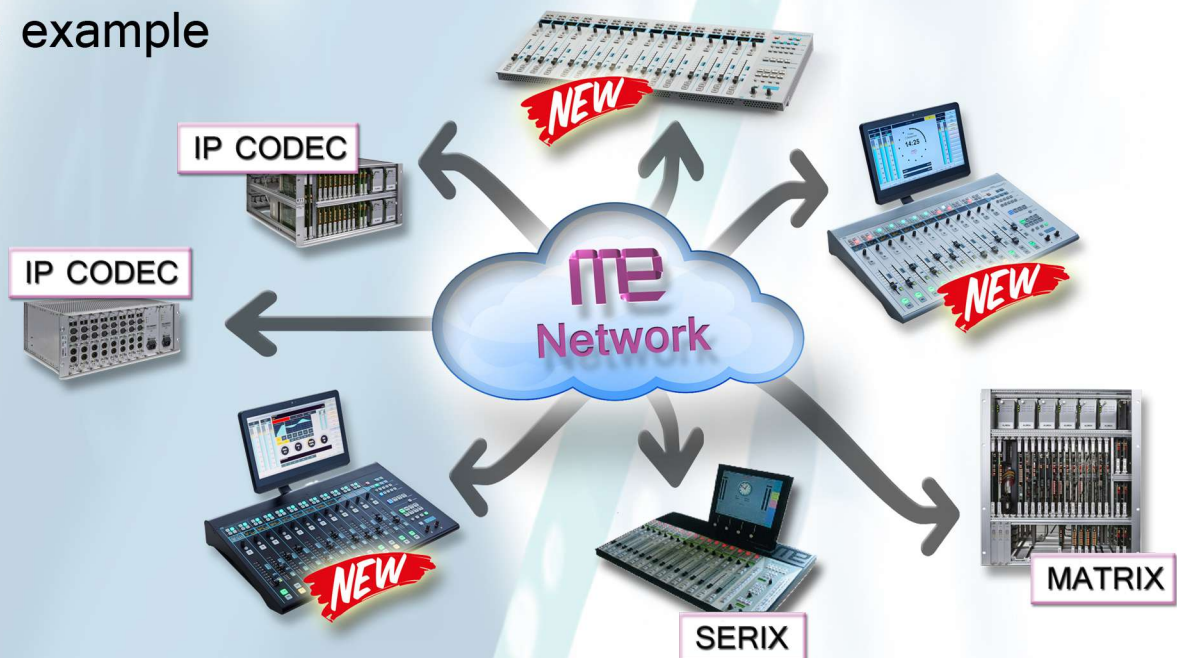
The universal digital On Air mixer.

CiMix is composed of a solid aluminium console with 12 faders and a multipurpose touch-screen display. The mixer is also available in a modular version, ready to be installed in the radio studio furniture. The central processor with the switching and DSP circuits are built into a 19 inch frame of 1HU (44.1 mm).

Both devices are equipped with redundant power supply units easily replaceable during the use of the mixer.



Setup example



Some technical data of the CIMIX mixers

Architecture

CIMIX is a powerful On-Air mixer with integrated matrix and DSP circuitry. It can easily be connected to a central Mandozzi matrix. In this case, the CIMIX mixers remotely control the matrix in order to select the input and output connections, for intercom connections between the mixers, as well as to remotely control the microphone pre-amplifiers, the mute and the GPIO of the other mixers. CIMIX can also control, via the central matrix, a pool of hybrids and codecs.

The table-top CIMIX mixer is composed of:

- **The console**, a mixer surface with 12 faders and a multi-function touch screen display.
- **The concentrator**, built into a 19 inch cabinet of 1 HU (44.1 mm). It contains the central processor with the switching and DSP circuits, and the audio and GPIO interfaces. It is connected with the console via a CAT5 Ethernet cable.

The modular CIMIX mixer is composed of:

- **The CENTRAL module.**
- **The FADER4 module**, one or more modules to complete the mixer you want.
- **The multi-function touch screen display.**
- **The concentrator**, built into a 19 inch of 6 HU. Can be equipped according to the customer's needs.

Inputs/Outputs (The concentrator 1 HU)

- 8 MIC/LINE inputs (configurable via software) with dedicated phantom power
- 12 LINE inputs
- 8 AES/EBU stereo inputs with SRC
- 4 stereo headphone outputs with built-in preamp
- 8 LINE outputs
- 8 AES/EBU stereo outputs
- 8 GPIO
- 1 AES67 interface (optional)

Additional interfaces

- Sync input (Wordclock or AES3)
- LAN for connecting the control signals of the central router
- MADI on an SFP connector into which adapters for fibres, RJ45, etc. can be plugged
- 2 Mains inputs (230 VAC) for redundancy

Fader layers

- Up to 6 fader layers can be configured (optional)

Equipment of every fader channel

- Filter bank with 6 freely configurable filters
- Compressor / Limiter / Noise Gate
- Gain adjustment
- Pan/Bal and Width adjustment
- Phase inversion
- Stereo to mono conversion, L/R, LL and RR inversion
- Surround Sound Panning
- Insert
- The signal processing sequence (filter bank, dynamics, signal tapping point for dB meter, PFL, fader, Pan/Bal, Width, Insert) can be selected for every channel

- Along every fader there are LEDs to indicate the level (input or n-1) and the attenuation due to compressing

Sum busses of the mixer

- 16 N-1 / COM GROUP
- 4 AUX
- 2 PFL
- 2 PGR
- 1 REC
- Gain, stereo-mono conversion, compressor/limiter
- Possibility to connect the sum as pre or post fader (with separate gain adjustment)
- The output level can be displayed on the screen

Monitor

- 8 keys for direct monitor selection
- DIM / MUTE
- SPLIT PFL
- MONO
- Select any input and output via the touch screen
- The monitoring outputs are equipped with: Gain, Bal/Pan, Width, stereo - mono conversion, phase inversion

dB meters on the screen

- Selectable scale
- Loudness (EBU R-128)
- 4 dB meters: Master, PFL, Monitoring, selectable signal
- dB meter busses for level display on separate window
- Along every fader there are LEDs that indicate the input or output level (operator selectable) as well as Over
- Along every fader there are LEDs that indicate the gain reduction due to compressing

Intercom

- One circuit for console and external monitor / intercom boxes (Mandozzi's Mixbox, K-Box, or others)
- Automatic blocking at the mixers that are on air
- GPIO to establish intercom connections to external mixers
- Full integration into the Mandozzi radio house system

Software

- Login with various access rights
- Saving and loading of configurations for faders, compressors, filters, and complete mixer snapshots
- Comfortable managing of the antenna outputs (switching, GPIO, etc.)
- The functions and the colours of the keys, the functions of the rotary knobs, and the texts on the displays can be configured very easily by the operator.
- CiMix can be configured and remotely controlled from a PC via IP.
- Back up, log file, and help functions.

Surround Sound

- CIMIX generates 5.1 signals from a mono or stereo signal, with easily operated panning.
- An external mono signal or an external 5.1 signal can be mixed with the internally generated surround signal.

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