



# M10/M20

DSP Digital Audio Matrix



Next-generation audio matrices have been designed to ensure speech intelligibility and impeccable sound quality in any environment, even in the most complex and reverberant settings. M10/M20 are the new advanced matrices by Fulgor Service, developed to meet all audio applications where speech intelligibility is required in every space, particularly reverberant ones. They are engineered to be managed by the user in a simple and intuitive way. The M10/M20 matrices deliver clean, crystal-clear sound and exceptional sound pressure thanks to the ability to precisely and independently control all audio parameters in every working environment through proprietary software. Each parameter can be adjusted with maximum accuracy: For each input: parametric equalizer, Phantom power, phase, anti-feedback (anti-Larsen) control, Mic/Line selection, gain, dynamic processor, V-meter, mute, and potentiometer control.

For each output: delay, boost, mute, phase, potentiometers, equalizer, dynamic processor, V-meter, and level control.

A flexible and versatile product.

- M10: 10 mic/line inputs, 6 balanced outputs
- M20: 20 mic/line inputs, 12 balanced outputs
- Up to 16 customizable audio presets, with onboard interface for immediate control
- Advanced configuration via PC or tablet using Ethernet or Wi-Fi, with the ability to generate Pink Noise and Tone for even more precise setup. Illuminated front-panel potentiometers/encoders with analog control, ensuring uncompromised audio integration.

M10/M20 – Power, versatility, and quality for every sound requirement.



## TECHNICAL CHARACTERISTICS

### M10

### M20

SAMPLING FREQUENCY:	48KHz/44,1KHz	48KHz/44,1KHz
FREQUENCY RESPONSE:	da 20Hz a 20KHz, ±1,5dB	da 20Hz a 20KHz, ±1,5dB
DYNAMIC RANGE:	101dB	101dB
INPUTS:	10 balanced Mic/Line inputs, max gain +60 dB	20 balanced Mic/Line inputs, max gain +60 dB
OUTPUTS:	6 balanced line MAX +16dB	12 balanced line MAX +16dB
CONNECTORS:	Euro-Block 3pin (pitch da 5,08mm)	Euro-Block 3pin (pitch da 5,08mm)
FRONT PANEL INDICATORS:	10 multifunction encoder	20 encoder multifunction
NUMBER OF ENCODERS:	10	20
NUMBER OF PRESETS:	16	16
MAXIMUM NUMBER OF DEVICES USABLE SIMULTANEOUSLY ON A SINGLE NETWORK:	6 with updated firmware	For the M20, two M10 units must be linked using the same network with dedicated software.
OPERATING TEMPERATURE RANGE:	0°C ~ 45°C	0°C ~ 45°C
STORAGE TEMPERATURE RANGE:	-20°C ~ 60°C	-20°C ~ 60°C
INPUT POWER SUPPLY:	37 V Phantom (per channel; individually selectable)	37 V Phantom (per channel; individually selectable)
POWER SUPPLY VOLTAGE:	240V 50/60Hz	240V 50/60Hz
POWER CONSUMPTION:	165W max.	330W max.
POWER CABLE LENGTH:	1,5mt	1,5mt
DIMENSIONS:	(L x A x P) 480 x 88 x 280mm 2U	(L x A x P) 480 x 88 x 280mm 2U
WEIGHT:	3,90 kg	3,90 kg

