

So much more than excellent sound



20.04 Digital Speaker Management Controller

The 20.04 is a 2 Input 4 Output "Digital Speaker Management Controller" suited for 2, 3 and 4-way speaker management, Channel Distribution and Room EQ.

The 20.04 provides a perfect audio solution together with the MACH C-Range speakers. Through its numerous features the 20.04 has specifically been designed to be a high quality and "easy to use" controller in small and medium size installations.

With up to 200 manufacturer definable presets, the 20.04 may be used across a number of different pre-defined speaker set ups. Simply dial up the preset corresponding to the speaker and you are up and running.

Another 100 vacant presets allow the end-user to edit and store his or her own application specific presets, including Room EQ, X-Over, Alignment Delay and Limiting.

A unique routing engine allows any Input to be routed to any output allowing a maximum flexibility of the 20.04. In addition each channel includes X-Over, 4 band parametric EQ, Alignment Delay and Limiting.



100 End User Presets and MACH Speaker library included



Input EQ for Room and Placement Compensation (4 band parametric pr. Input Ch.)
Unique Routing Engine (Any Input to Any Output)



2, 3 & 4-way X-Over on all Outputs (Butterworth, Bessel and Linkw. Riley type filters available)

Speaker Voicing EQ, (4 band parametric per Output Channel)

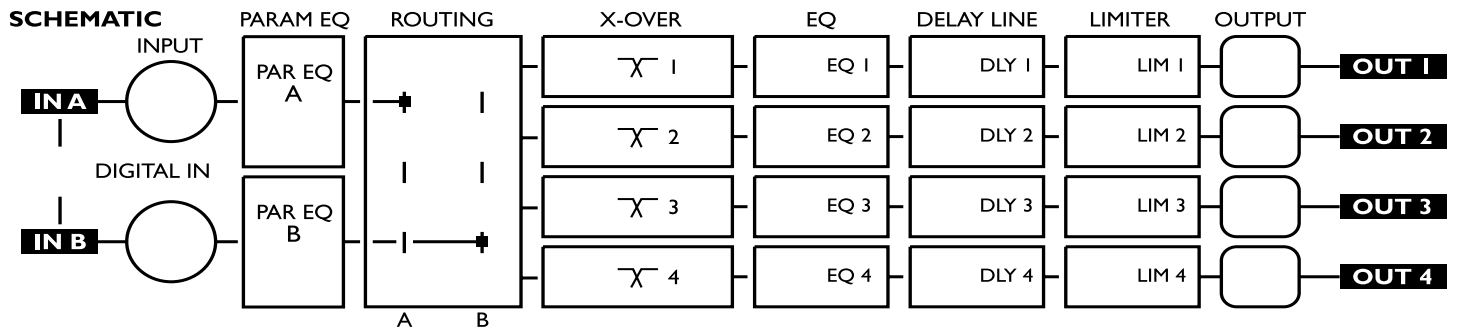


With up to 200 Speaker Manufacturer presets included

A Lock function prevents unintended change of parameters

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www.mach.dk
A Martin Professional Product

Intuitive Signal Flow Based User Interface



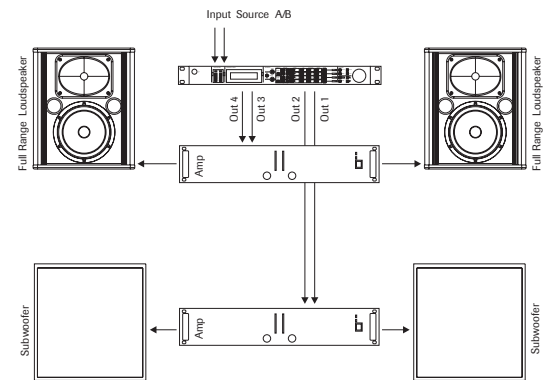
M20.04 Controller

- MACH Speaker library included
- 100 End User Presets
- Input EQ for Room and Placement Compensation (4 band parametric pr. Input Ch.)
- Unique Routing Engine (Any Input to Any Output)
- 2, 3 & 4-way X-Over on all Outputs (Butterworth, Bessel and Linkw. Riley type filters available)
- Speaker Voicing EQ, (4 band parametric per Output Channel)
- Independent Speaker Alignment Delay on all outputs (200 ms per Channel)
- Independent Digital Limiter on all Outputs
- Intuitive Signal Flow Based User Interface
- With up to 200 Speaker Manufacturer presets



Inputs	2 inputs
Connectors	3 pin XLR (pin 2 hot)
Impedance	Balanced: 21 kOhm, Unbalanced: > 10 kOhm
Max. Input Level	24 dBu
Sensitivity Range @ full scale	0 dBu to 24 dBu
Outputs	4 outputs
Connectors	3 pin XLR (pin 2 hot)
Impedance	40 Ohm
Max. Output Level	Balanced: 20 dBu / Unbalanced: 14 dBu
Output Ranges	Balanced: 20/14/8/2 dBu / Unbalanced: 14/8/2 dBu
Max. Load	1200 Ohm @ Output Level > 14 dBu, 600 Ohm @ Output local < 14 dBu
Performance	
Conversion	24 bit (1 bit, 128 times over sampling)
Conversion Delay alone	1.38 ms
Dynamic Range (#)	Typ. > 102 dB, 20 Hz - 20 kHz
THD	Typ. < -90 dB (0.0032%) @1 kHz, BW: 20 - 20 kHz
Frequency Response	20Hz to 20kHz: +0/-0.7 dB
Crosstalk	Typ. < -95 dB, BW: 20 - 20 kHz
General	
Finish	Anodized aluminum front, plated and painted steel chassis
Display	2 x 16 character LCD
Dimensions	19" x 1.75" x 8" (483 x 44 x 105.6 mm)
Weight	3.3 lb. (1.5 kg)
Mains Voltage	100 to 240 VAC, 50 to 60 Hz (auto-select)
Power Consumption	<15 W
Item No:	93902004

Stereo Setup - with subs



This is a typical stereo setup with a set of subs. Analog: Input signal is fed on Inputs A/B. Configure Routing section as illustrated below. Output channels 3 and 4 feeds the front loudspeakers. Output channels 1 and 2 feeds the subs.

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Mach Speakers A/S • Perspektivvej 2 • 9900 Frederikshavn • Denmark • Tel. +45 72 15 08 52 • Fax +45 98 43 14 15 • www.mach.dk