

Integral series



SOUND WITH SOUL

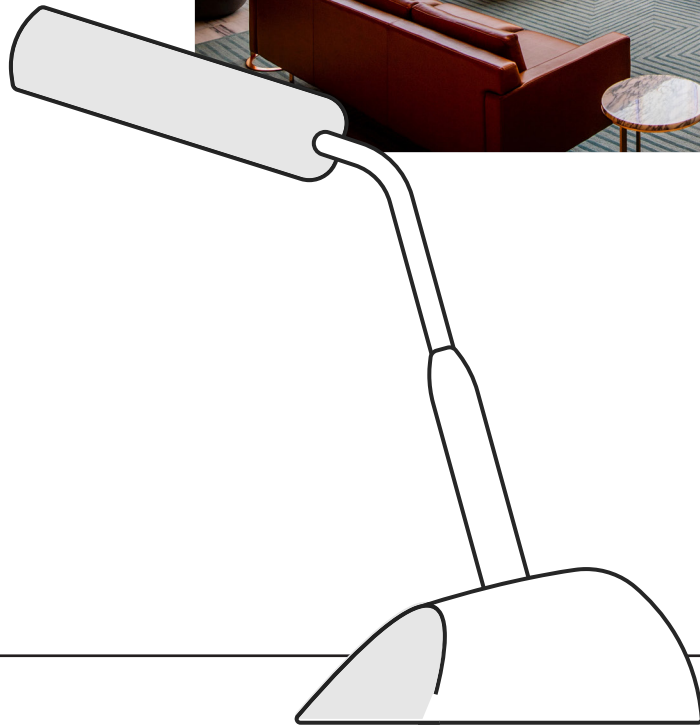
www.dasaudio.com

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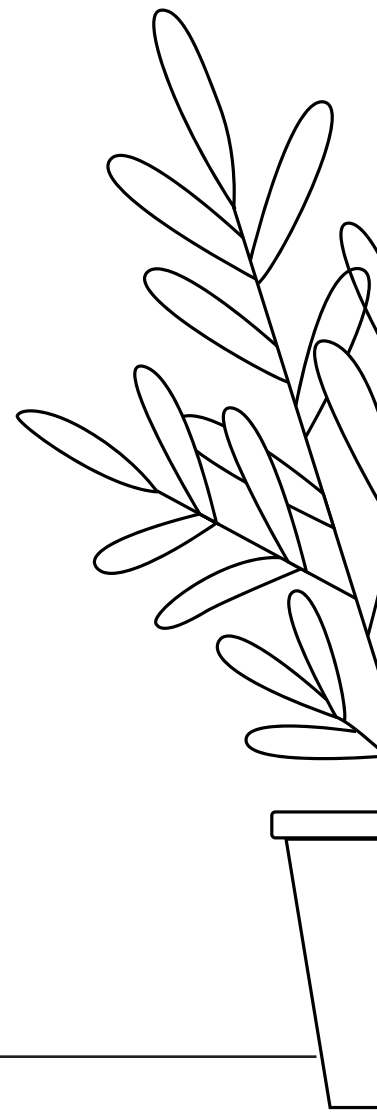
Integral Series

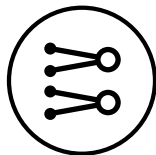
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Introduction

DAS Audio presents Integral Series. A true revolution in software and hardware, designed to facilitate control and ease of use in all our commercial and professional installation solutions.

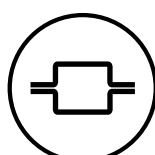




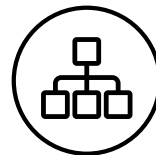
4 CHANNELS
BRIDGEABLE



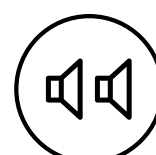
BALANCED
ANALOG INPUTS



4 FULL BAND HOS EQ



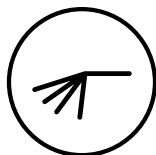
ETHERNET SWITCH
INCLUDED



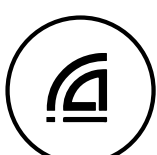
TIME ALIGNMENT



WARRANTY
EXTENSION



UP TO 8TH ORDER
X-OVERS



4 DANTE OUTPUTS



FACTORY PRESETS



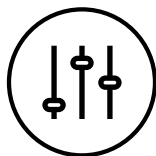
WI-FI REMOTE
CONTROL



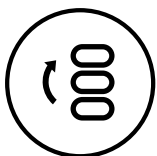
CLASS D AMPLIFIER



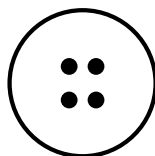
STANDBY MODE



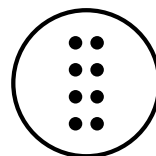
10 BAND EQ



SELECTABLE PRIORITY
IN ALL INPUT CHANNELS



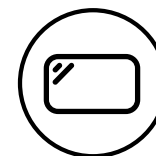
4 BALANCED AUXILIARY
PROCESSED CHANNELS



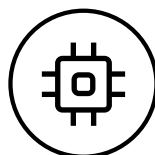
8 INDEPENDENT INPUT
PROCESSING CHANNELS



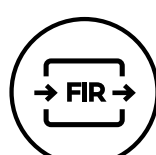
REAL TIME STATUS
MONITORING



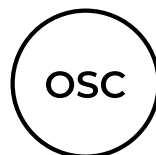
OLED DISPLAY



8X8 CONFIGURABLE
MATRIX



FIR CAPABILITY



OPEN SOUND
CONTROL



SYSTEM MANAGEMENT



SYSTEM
PROTECTION

10 BAND EQ

Ecosystem

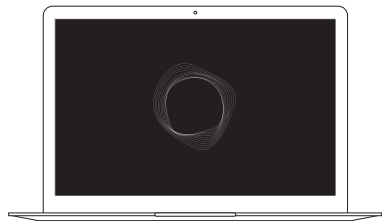


A complete end-to-end solution guarantees an exceptional sonic experience throughout the installation while protecting the systems against misuse, power peaks, and high power consumption, which allows us to offer a 3-year warranty extension on top of our standard warranty, safeguarding the correct operation of the system for up to 5 years from the moment of installation.

Audio sources



Matrix



ALMA



Amplifiers



Install devices

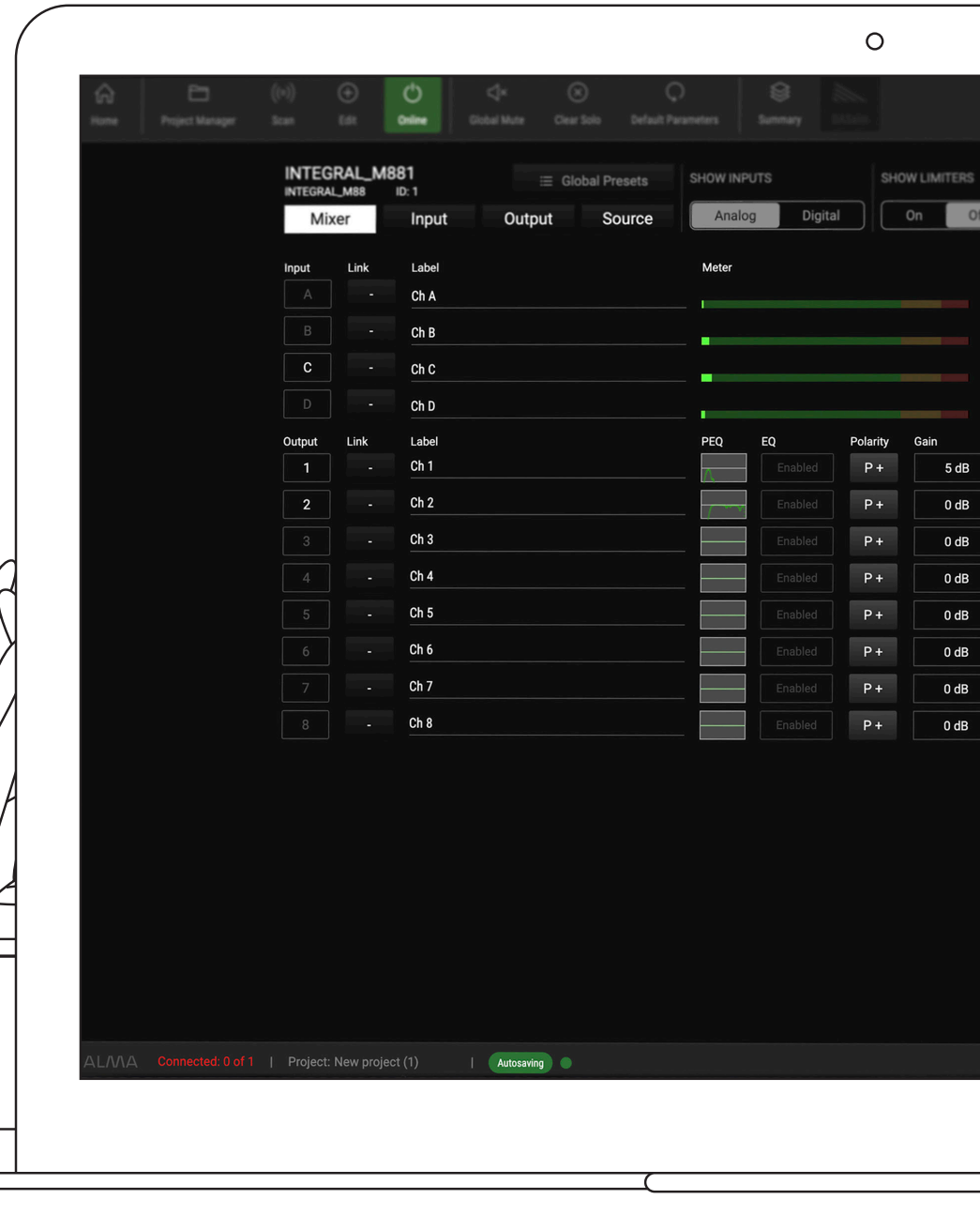
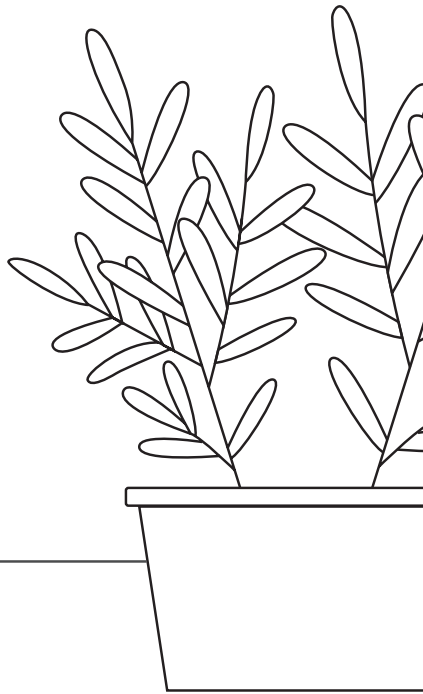


Matrix Amplifiers

Systems



Software





ALMA™



ALMA™ is the latest software from DAS Audio. A revolution in the way users interact with our systems, whether it be at live events or permanent installations. By using ALMA™, you will maximize the performance of the INTEGRAL series and all our sound systems.

The interface has been designed to streamline processes and provide intuitive access to tools. Intelligent programming helps you reduce the time and complexity of managing and optimizing the systems, making set-up times considerably shorter.

For more information, scan the QR code below or visit www.dasaudio.com





Open Sound Control

osc

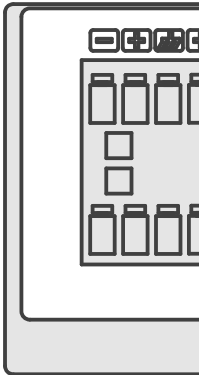
Open Sound Control (OSC) is a real-time message communication protocol between applications and hardware. DAS Audio provides the codes to program access to monitoring parameters, gain control, preset recall on top of many options for any OSC application. In addition, we have specifically designed complete templates for TouchOSC, a modular OSC control surface for tablets and smartphones created by Hexler Heavy Industries. These templates will work on both mobile devices and INTEGRAL-WP3 touch screen panels.

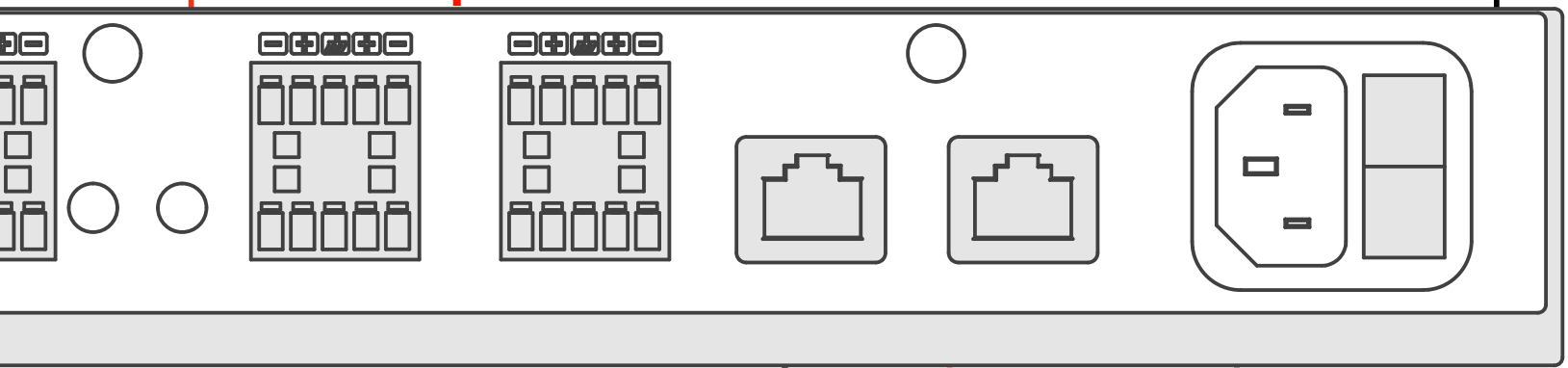


 TouchOSC



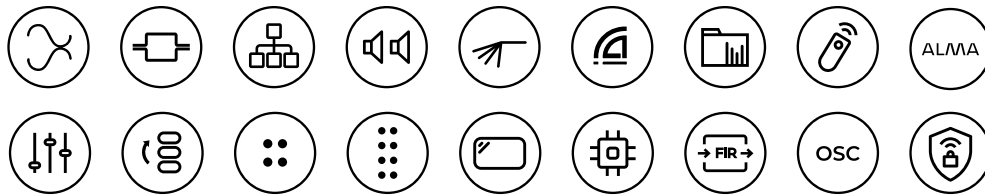
Matrix and processors



The Dante logo consists of a stylized 'D' icon followed by the word 'Dante' in a bold, sans-serif font. A red line is drawn through the 'D' icon and extends to the left.

AES67

INTEGRAL-M88



INTEGRAL-M88 is a half rack unit matrix for audio management with an integrated digital signal processor. It includes 4 analog audio inputs and 8 analog outputs, as well as 4 DANTE digital audio input and output channels. Control, configuration and management of the devices is performed via the ALMA™ software over IP or via Open Sound Control (OSC) protocol from tablets or smartphones.

Main features include priority assignment (two levels) for each output, routing matrix with gains, equalization and advanced filters for each channel, phantom power for Mic/Line inputs, etc., making it the essential unit or brain in any type of installation. The internal memory is capable of storing more than 100 global presets and more than 200 output channel presets. It includes a bank of presets per output channel with specific processing parameters for all DAS Audio systems, allowing the users to configure each channel independently. Two of the

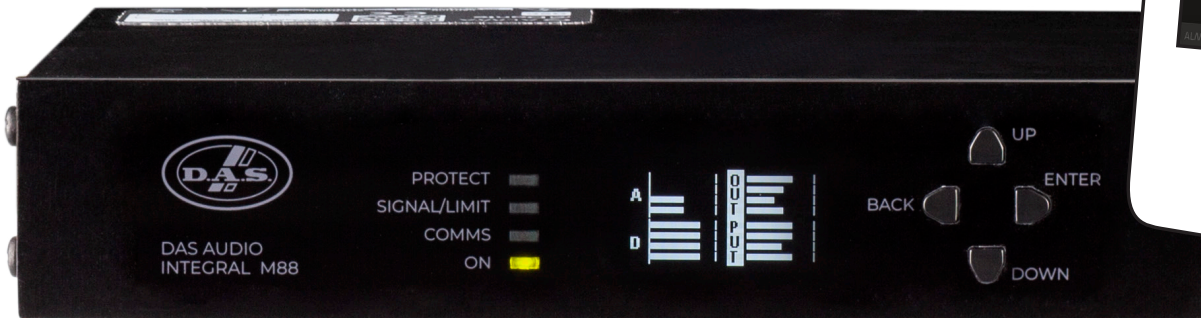
analog inputs can be switched to microphone inputs with phantom power available.

The unit features a 1.54" OLED display with control buttons to navigate quickly, easily, and intuitively through the menus and where the VU meters of each input/output channel are displayed. From the front panel, you can access multiple functions, such as input/output mutes, output routing, input/output gains, memory recall, channel grouping, priority and phantom activation, etc.

It includes an Ethernet switch for daisy-chain connections, as well as Wi-Fi and BT.

Key features

- 8 CH matrix with built-in DSP
- 4 independent analog inputs
- 2 MIC/Line inputs with phantom
- 8 analog outputs
- 4 x 4 DANTE digital audio channels
- ALMA control and monitoring software
- Priority assignment per output
- Inputs and outputs flexible routing matrix



Specifications

M88

ELECTRONICS AND AUDIO

Amplifier Output Circuitry	Class D
Frequency Response	20 Hz-30 kHz (+0 -0.5 dB)
Max input level	+22 dBu
Max output level	+22 dBu
Controls	Power On/Off, Navigation Knobs
Display	OLED 1.54"
Cooling	Side-Right-To-Left
Amplifier Protections	Short Circuit, DC Output, Temperature, Over/Under Voltage
LED Indicators	On, Comms, Signal, Protect

M88

CONNECTORS

Analog Audio Input Connectors	2 x 3.5 mm Pitch Terminal block
Analog Audio Output Connectors	4 x 3.5 mm Pitch Terminal block
DANTE Digital In/Out Connectors	2 x RJ45 Fast Ethernet

POWER

AC Input Connector	IEC 15A
Power Supply	Universal Mains Switch Mode
Operating Range	90 - 250 VAC
Current Draw 230 V / 115 V	0.13 A / 0.26 A

DIMENSIONS AND WEIGHT

Dimensions (H x W x D)	44 x 215 x 210 mm 1,7 x 8,5 x 8,3 in
Net Weight	1,7 kg (3.7 lb)

M88

DSP

Analog Input Channels	4
Analog Output Channels	8
DANTE Input Channels	4
DANTE Output Channels	4
AD Converters	24 Bit @ 48 kHz 125 dBA Dynamic Range
DA Converters 24 Bit @ 48 kHz 125 dBA	24 Bit @ 48 kHz 125 dBA Dynamic Range
Internal Precision	32 Bit Floating Point
Latency	1 ms
Delay	120 ms per output
Equalizer	LCD
Crossover	Linkwitz-Relay, Butterworth
High and Low Pass Filters	Up to 48 dB/oct
Limiters	RMS, Peak

PATCH-M88

19" 1U rack-mountable patch panel featuring on the front panel; 4 x balanced Neutrik audio input connectors, 8 x balanced Neutrik audio output connectors and 2x etherCon connectors for ALMA and DANTE connectivity. On the rear panel, it incorporates 2 x input terminal blocks, 4 x output terminal blocks and 2 x etherCon.

Specifically designed for use with the Integral-M88 in live sound applications.



PATCH-M88

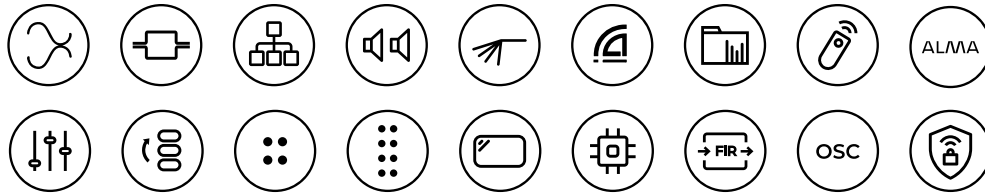
CONNECTORS

Analog Audio Input Connectors	2 x 3.5 mm Pitch Terminal block
Analog Audio Output Connectors	4 x 3.5 mm Pitch Terminal block
DANTE Digital In/Out Connectors	4 x EtherCon
Audio Input	4 x Female XLR,
Audio Output	8 x Male XLR

DIMENSIONS AND WEIGHT

Dimensions (H x W x D)	44 x 483 x105 mm 1.7 x19.0 x 4.1 in
Net Weight	1,5 kg (3,2 lb)

INTEGRAL-M-26X



The INTEGRAL-M26X, a 1U rack-mount digital signal processor, features two analogue input channels and six analogue output channels equipped with balanced XLR connectors. Its compact, cost-effective design makes it a versatile choice for live and installed PA systems.

Remote control and monitoring are possible via ALMA™ software using IP technology, or alternatively, it can be managed using external controllers through OSC messages. Direct unit control is facilitated through a 1.54" OLED display with control buttons for basic parameters. These include input and output levels, preset recalls, mute, source selection, and link manager functions.

The device houses a complete signal processing matrix, offering gain, delay, routing, equalization, and limiters adjustment options. Its internal memory can store over 100 global presets and 200+ output

channel presets, including specific presets for all DAS Audio speakers.

External control is further simplified through a General-Purpose Input / Output (GPIO) connector, providing an external 3V3 volt, GND signal, and 8 configurable pins via ALMA™ software.



Key features

- 2 Input x 6 Output, 1U Rack-Mount Design advanced DSP
- Remote & Direct Control: 1.54" OLED, ALMA™ software via IP
- 100+ Global Presets: 200+ output channel storage
- Factory Output Channel Presets Included
- GPIO External Control with 8 configurable pins
- 24 Bit @ 48 kHz Converters: 118 dBA Dynamic Range
- Advanced EQ & Filters: Including up to 48 dB/oct settings
- Maximum Input / Output level +22dBu



Specifications

M-26X

ELECTRONICS AND AUDIO

Frequency Response	20 Hz-30 kHz (+0 -0.5 dB)
Max Input Level	+22 dBu
Max. Output Level	+22 dBu
Controls	Power On/Off, Navigation Buttons
Sampling Rate	48 kHz
Display	OLED 1.54"
Cooling	Side-Right-to-Left
LED Indicators	On, Comms, Signal, Limit

M-26X

POWER

AC Input Connector	IEC 15A
Power Supply	Universal Mains Switch Mode
Operating Range	90 - 250 VAC
Current Draw 230 V / 115 V	0.13 A / 0.26 A
AC Input Connector	IEC 15A
Power Supply	Universal Mains Switch Mode

DIMENSIONS AND WEIGHT

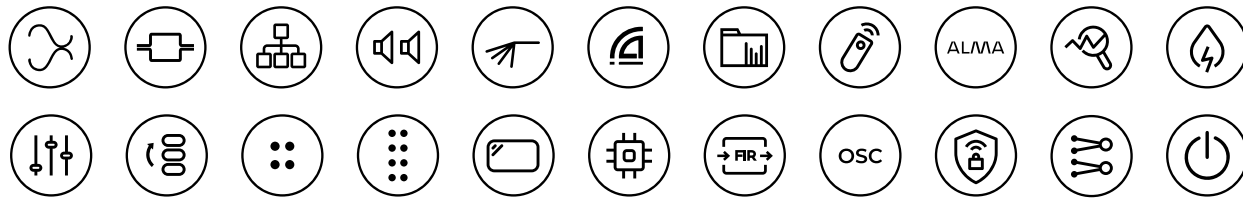
Dimensions (H x W x D)	44 x 215 x 210 mm 1,7 x 8,5 x 8,3 in
Net Weight	2,5 kg (5.5 lb)

M-26X

DSP

Analog Input Channels	2
Analog Output Channels	6
AD Converters	24 Bit @ 48 kHz 118 dBA Dynamic Range
DA Converters	24 Bit @ 48 kHz 118 dBA Dynamic Range
Internal Precision	32 Bit, 64 Bits Double Precision
Latency	1 ms
Delay	50ms per input / 135ms per output
Equalizer	Bell, Lo/Hi-Shelving, Hos
Crossover	Linkwitz-Realy, Butterworth
High and Low Pass Filters	Up to 48 dB/oct
Limiters	RMS

INTEGRAL-MA



INTEGRAL-MA consists of 2 x 2U rack-size, 4-channel matrix amplifiers with integrated DSP. Each unit features 4 analog input channels, 8 analog output channels and 4 x 4 DANTE digital audio channels. Control, configuration, and management of the unit is done via the ALMA™ software over IP or via Open Sound Control (OSC) protocol. Digital audio channels can be processed and injected back into the network, if needed.

Main features include Priority assignment (two levels) for each output, routing matrix with gains, equalization and advanced filters for each channel, Phantom power for Mic/Line inputs, etc., making it the essential unit or brain in any type of installation. The internal memory is capable of storing more than 100 global presets and more than 200 output channel presets.

It contains a bank of presets per output channel with specific processing parameters for all DAS

Audio systems, allowing the users to configure each channel independently. Two of the analog inputs can be switched to microphone inputs with phantom power available.

INTEGRAL-MA features a 1.54" OLED display with control buttons to navigate quickly, easily and intuitively through the menus and where the VU meters of each input/output channel are displayed. From the front panel, the user can access multiple functions, such as input/output mutes, output routing, input/output gains, memory recall, channel grouping, priority and phantom activation, etc.

Each unit incorporates an Ethernet switch for daisy-chain connections, as well as Wi-Fi and BT.

Key features MA1004 - 1000W

- 4 CH matrix amplifier with built-in DSP
- 250 W per channel @ 4 ohms
- High-efficiency Class D technology
- Low Z and High Z (bridge mode 70V / 100V)
- 4 independent analog inputs
- 2 inputs MIC/Line with Phantom
- 4 x 4 DANTE Digital Audio channels
- ALMA control and monitoring software

Key features MA1604 - 1600W

- 4 CH matrix amplifier with built-in DSP
- 400 W per channel @ 4 ohms
- High-efficiency Class D technology
- Low Z and High Z (bridge mode 70V / 100V)
- 4 independent analog inputs
- 2 inputs MIC/Line with Phantom
- 4 x 4 DANTE Digital Audio channels
- ALMA control and monitoring software



Specifications

MA-1004

OUTPUT POWER RATINGS

Amplifier Channels	4
Power 8 Ohms, Both Channels Driven	4 x 125 W
Power 8 Ohms Bridged	2 x 500 W
Power 4 Ohms, Both Channels Driven	4 x 250 W
Power 100 V	2 x 500 W
Power 70 V	2 x 500 W

ELECTRONICS AND AUDIO

Amplifier Output Circuitry	Class D
Frequency Response	20 Hz-30 kHz (+0 - 0.5 dB)
Input Sensitivity	+20 dBu
Max Input Level	+22 dBu
Voltage gain	15,4 dB
Damping Factor	> 1000 (8 Ω load, 1 kHz and below)
Display	OLED 1.54"
Cooling	Side-Right-to-Left
Amplifier Protections	Short Circuit, DC Output, Temperature, Over/Under Voltage
LED Indicators	On, Comms, Signal, Protect

MA-1004

CONNECTORS

Analog Audio Input Connectors	2 x 3,5 mm Pitch Terminal Block
Analog Audio Output Connectors	2 x 3,5 mm Pitch Terminal Block
DANTE Digital In/Out Connectors	2 x RJ45 Fast Ethernet
Speaker Output Connector	Terminal Block

POWER

AC Input Connector	IEC
Power Supply	Universal Mains Switch Mode
Operating Range	90 - 250 VAC
Current Draw 230 V / 115 V	1.75 A / 3.5 A

MA-1004

DSP

Analog Input Channels	4
Analog Output Channels	8
DANTE Input Channels	4
DANTE Output Channels	4
AD Converters	24 Bit @ 48 kHz 125 dBA Dynamic Range
DA Converters 24 Bit @ 48 kHz 125 dBA	24 Bit @ 48 kHz 125 dBA Dynamic Range
Internal Precision	32 Bit Floating Point
Latency	1 ms
Delay	120 ms per output
Equalizer	LCD
Crossover	Linkwitz-Relay, Butterworth
High and Low Pass Filters	Up to 48 dB/oct
Limiters	RMS, Peak
Load Monitoring	Yes
DIMENSIONS-WEIGHT	
Dimensions (H x W x D)	"88 x 483 x 208 mm 3.5 x 19.0 x 8.2 in"
Net Weight	3,7 kg (8.2 lb)

MA-1604

OUTPUT POWER RATINGS

Amplifier Channels	4
Power 8 Ohms, Both Channels Driven	4 x 200 W
Power 8 Ohms Bridged	2 x 800 W
Power 4 Ohms, Both Channels Driven	4 x 400 W
Power 100 V	2 x 800 W
Power 70 V	2 x 800 W

ELECTRONICS AND AUDIO

Amplifier Output Circuitry	Class D
Frequency Response	20 Hz-30 kHz (+0 - 0.5 dB)
Input Sensitivity	+20 dBu
Max Input Level	+22 dBu
Voltage gain	17,5 dB
Damping Factor	> 1000 (8 Ω load, 1 kHz and below)
Display	OLED 1.54"
Cooling	Side-Right-to-Left
Amplifier Protections	Short Circuit, DC Output, Temperature, Over/Under Voltage
LED Indicators	On, Comms, Signal, Protect

MA-1604

CONNECTORS

Analog Audio Input Connectors	2 x 3,5 mm Pitch Terminal Block
Analog Audio Output Connectors	2 x 3,5 mm Pitch Terminal Block
DANTE Digital In/Out Connectors	2 x RJ45 Fast Ethernet
Speaker Output Connector	Terminal Block

POWER

AC Input Connector	IEC
Power Supply	Universal Mains Switch Mode
Operating Range	90 - 250 VAC
Current Draw 230 V / 115 V	1.75 A / 3.5 A

MA-1604

DSP

Analog Input Channels	4
Analog Output Channels	8
DANTE Input Channels	4
DANTE Output Channels	4
AD Converters	24 Bit @ 48 kHz 125 dBA Dynamic Range
DA Converters 24 Bit @ 48 kHz 125 dBA	24 Bit @ 48 kHz 125 dBA Dynamic Range
Internal Precision	32 Bit Floating Point
Latency	1 ms
Delay	120 ms per output
Equalizer	LCD
Crossover	Linkwitz-Relay, Butterworth
High and Low Pass Filters	Up to 48 dB/oct
Limiters	RMS, Peak
Load Monitoring	Yes
DIMENSIONS-WEIGHT	
Dimensions (H x W x D)	"88 x 483 x 208 mm 3.5 x 19.0 x 8.2 in"
Net Weight	3,7 kg (8.2 lb)

Amplifiers





WA2 -WA4

INTEGRAL-WA2 and INTEGRAL-WA4 are two wall-mount amplifiers with two and four channels respectively that support 4 independent input source formats: micro-SD, USB, line or BT. They are specially designed for use in small venues such as retail stores, educational facilities, meeting rooms or for domestic use.

They employ a high-efficiency Class-D amplifier. The front panel includes buttons for volume control and input source selection.

Key features WA2

- 2-channel wall-mount amplifier
- 4 input source formats
- 25 W per channel @4 ohms
- High-efficiency Class D technology
- Input sources: Line, micro-SD, USB and BT
- Universal power supply
- 86x86mm electrical box included
- Remote control included



Key features WA4

- 4-channel wall-mount amplifier
- 4 input source formats
- 25 W per channel@4 ohms
- High-efficiency Class D technology
- Input sources: Line, micro-SD, USB and BT
- Universal power supply
- 86x86mm electrical box included
- Remote control included

INTEGRAL – A –

INTEGRAL-A comprises a set of high efficiency Class D amplifiers in 1 or 2 rack unit formats for use in commercial installations.

They are equipped with a universal power supply able to operate at any range in any country in the world, and features an automatic stand-by mode when there is no signal presence, which results in energy savings.

Multicolor LEDs in the front panel provide information related to signal presence, limiters and protection status. On the rear panel, the user can configure the outputs in stereo/bridge mode and engage 12dB/oct order high-pass filter at 80Hz.

An elegant and sleek design combined with Euro-block-type connectors and an energy-saving functionality make it the ideal product for permanent installations.



A402 – 2 Channels



Key features

- 2-channel amplifier, Class D
- 200 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

A404 – 4 Channels



Key features

- 4-channel amplifier, Class D
- 100 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

A1002 – 2 Channels



Key features

- 2-channel amplifier, Class D
- 500 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

A1004 – 4 Channels



Key features

- 4-channel amplifier, Class D
- 250 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

A1602 – 2 Channels



Key features

- 2-channel amplifier, Class D
- 800 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

A1604 – 4 Channels



Key features

- 4-channel amplifier, Class D
- 400 W per channel @ 4 ohm
- Low Z and High Z (bridge mode 70V / 100V)
- Universal switched-mode power supply
- 12dB/oct High pass filter selectable on each output
- Automatic standby mode

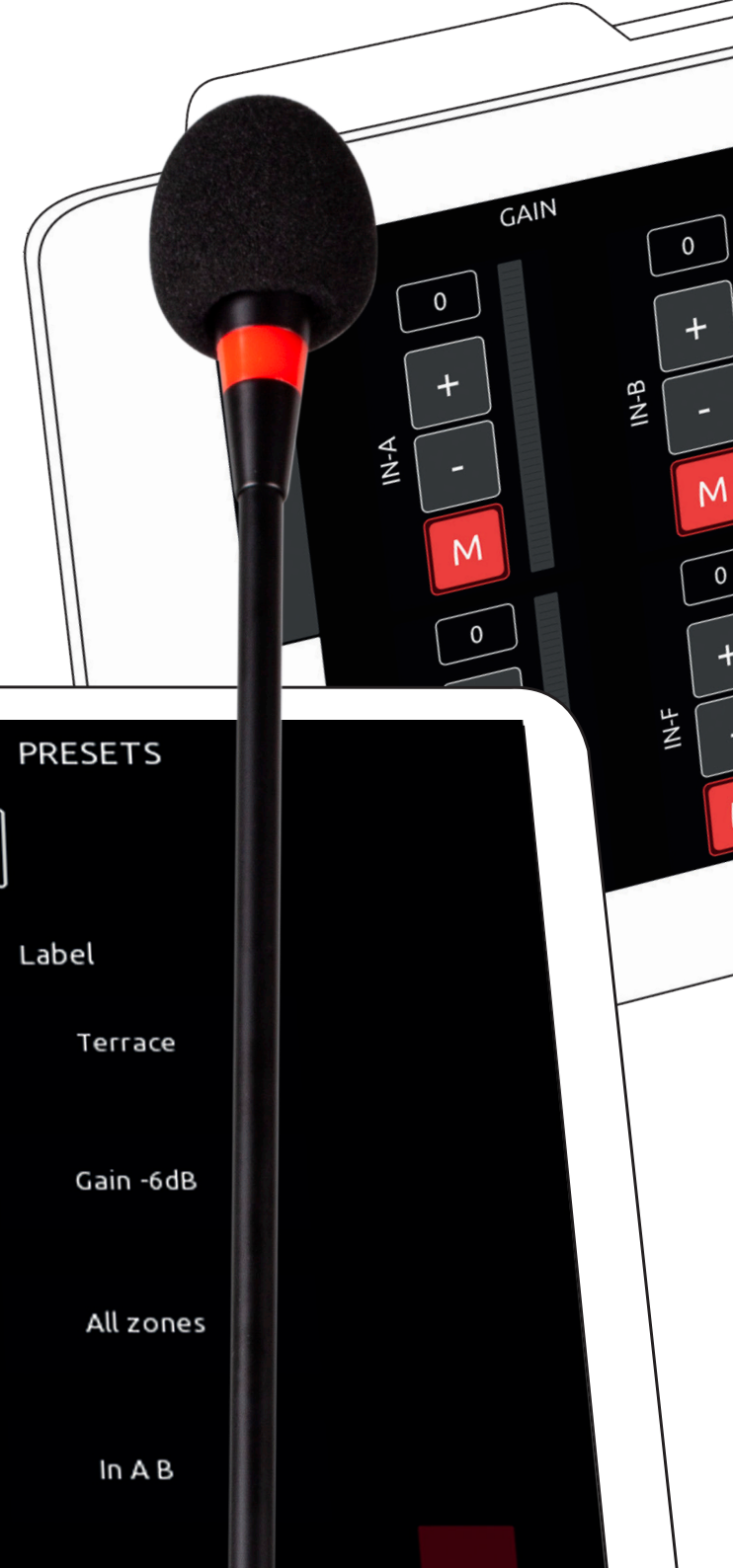
Specifications

		WA2	WA4
Stereo mode (both channels driven)	8 Ohms	2 x 12,5 W	4 x 12,5 W
	4 Ohms	2 x 25 W	4 x 25 W
Frequency response		20 Hz - 20 kHz (+0 -0.5 dB)	20 Hz - 20 kHz (+0 -0.5 dB)
Sensitivity		1.25 V (+4dBu)	1.25 V (+4dBu)
Voltage Gain		18 dB	18 dB
Output circuitry		Class D	Class D
AC Requierements Nominal @4 Ohms		"0,3 A, 230 VAC 0,6 A, 115 VAC"	"0,6 A, 230 VAC 1,2 A, 115 VAC"
Dimensions (H x W x D)		"86 x 86 x 36 mm 3.4 x 3.4 x 1.4 in"	"86 x 86 x 36 mm 3.4 x 3.4 x 1.4 in"
Net Weight		0,2 kg (0.1 lb)	0,2 kg (0.1 lb)



		A-402	A-404	A-1002	A-1004	A-1602	A-1604
Stereo Mode	8 Ohms	2 x 100 W	4 x 50 W	2 x 250 W	4 x 125 W	2 x 400 W	4 x 200 W
	4 Ohms	2 x 200 W	4 x 100 W	2 X 500 W	4 X 250 W	2 X 800 W	4 X 400 W
Bridge mono mode	8 Ohms	1 x 400 W	2 x 200 W	1 x 1000 W	2 x 500 W	1 x 1600 W	2 x 800 W
70 / 100V		1 x 400 W	2 x 200 W	1 x 1000 W	2 x 500 W	1 x 1600 W	2 x 800 W
Frequency Response		0/- 0.5 dB (20 Hz - 30 kHz)	0/- 0.5 dB (20 Hz - 30 kHz)	0/- 0.5 dB (20 Hz - 30 kHz)	0/- 0.5 dB (20 Hz - 30 kHz)	0/- 0.5 dB (20 Hz - 30 kHz)	0/- 0.5 dB (20 Hz - 30 kHz)
Total Harmonic Distortion (20 Hz-20kHz)		0,08	0,08	0,08	0,08	0,08	0,08
Voltage gain		30 dB	30 dB	30,4 dB	30,4 dB	32,5 dB	32,5 dB
Input sensitivity		1,38V (+5 dBu)	1,38V (+5 dBu)	1,38V (+5 dBu)	1,38V (+5 dBu)	1,38V (+5 dBu)	1,38V (+5 dBu)
Damping Factor		> 1000 (8 Ω load, 1 kHz and below)	> 1000 (8 Ω load, 1 kHz and below)	> 1000 (8 Ω load, 1 kHz and below)	> 1000 (8 Ω load, 1 kHz and below)	>350, each channel (8 Ω load, 1 kHz and below)	>350, each channel (8 Ω load, 1 kHz and below)
Output Circuitry		Class D	Class D	Class D	Class D	Class D	Class D
AC Requirements		1.5 A, 230 VAC 3 A, 115 VAC	1.5 A, 230 VAC 3 A, 115 VAC	1.7 A, 230 VAC 3.5 A, 115 VAC	1.7 A, 230 VAC 3.5 A, 115 VAC	3 A, 230 VAC 6 A, 115 VAC	3 A, 230 VAC 6 A, 115 VAC
Dimensions (H x W x D)		44 x 483 x 208 cm 1.7 x 19 x 8.2 in	44 x 483 x 208 cm 1.7 x 19 x 8.2 in	88 x 483 x 208 cm 3.5 x 19 x 8.2 in	88 x 483 x 208 cm 3.5 x 19 x 8.2 in	88 x 483 x 208 cm 3.5 x 19 x 8.2 in	88 x 483 x 208 cm 3.5 x 19 x 8.2 in
Weight		2.7 kg (6 lb)	2.9 kg (6.4 lb)	3.5 kg (7.7 lb)	3.6 kg (8 lb)	3.5 kg (7.7 lb)	3.8 kg (8.2 lb)

Peripheral Devices



GAIN PRESETS

Terrace

Preset	Label	Preset	Label
PRESET 1	Reception	PRESET 5	Terrace
PRESET 2	Lounge	PRESET 6	Gain -6dB
PRESET 3	Floor 1	PRESET 7	All zones
PRESET 4	Floor 2	PRESET 8	In A B



The Integral series is a family of electronic devices and peripheral products that addresses the needs of the commercial and professional installation market offering a comprehensive solution for system integrators.

The series offers a wide range of solutions to suit almost all types of applications. Thanks to these characteristics, we can offer complete end-to-end solutions that simplify the work of integrators and guarantee the optimization of our sound systems in terms of performance and efficiency.

Configuration, control, and monitoring of the sound systems can be done using the ALMA™ software. We have also developed an easy-to-use solution using OSC that allows access to basic parameters from the user's mobile device.

INTEGRAL-VC1

INTEGRAL-VC1 is a volume control for speaker high impedance lines (70V/100V) with a maximum handling power of 120W. The rotatory 5-position selector allows volume attenuation in 6dB steps from total shutdown.

It is equipped with a relay that is activated by a 24V priority signal, switching to maximum level in case of emergency.

Key features

- Volume control for 70V / 100V lines
- Maximum power handling 120W
- 24V relay for priority messages
- Rotatory 5-position selector in 6dB steps
- 86 x 86 mm electrical box included



INTEGRAL-WPM1

INTEGRAL-WPM1 is a compact wall-panel audio mixer with two channels. It includes one balanced XLR microphone input with phantom power that can be activated with an internal jumper. It also includes one stereo line input with 2 x RCA or 1/8" minijack. Each channel has its own independent gain control.

The microphone channel can be prioritized over the input line. This functionality is activated via an internal jumper. The mono output of these two channels can be sent directly to matrix or amplifiers of the series.



Key features

- Compact two-channel wall-panel mixer
- Balanced microphone input (XLR)
- Unbalanced stereo line input (2xRCA)
- Balanced mono signal output
- Independent volume control per channel
- Priority (Talk-Over) function for MIC channel
- Phantom power available for MIC channel
- External 12-24Vdc power supply

INTEGRAL-WP3

INTEGRAL-WP3 is a 7" touch screen panel powered over Ethernet (PoE), designed to manage and control several parameters of the digital processors included in the INTEGRAL-M88, INTEGRAL-MA1004, and INTEGRAL-MA1604 products. The touch screen panel provides quick access to input and output channels, preset recall, and meter monitoring which allows the user to mute channels or adjust input/output gains.

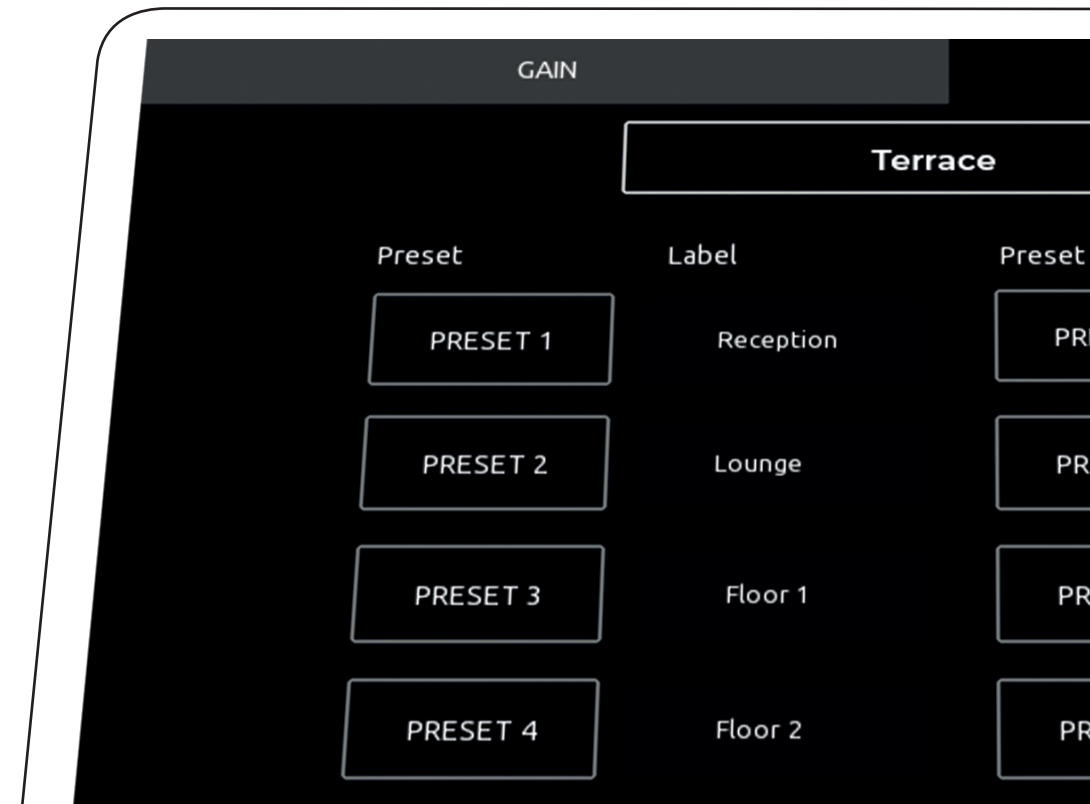
The INTEGRAL-WP3 is ideal for permanent installations with several areas/zones where each zone needs its own control. Ethernet connectivity allows devices to be placed up to 100 m away from the main racks.

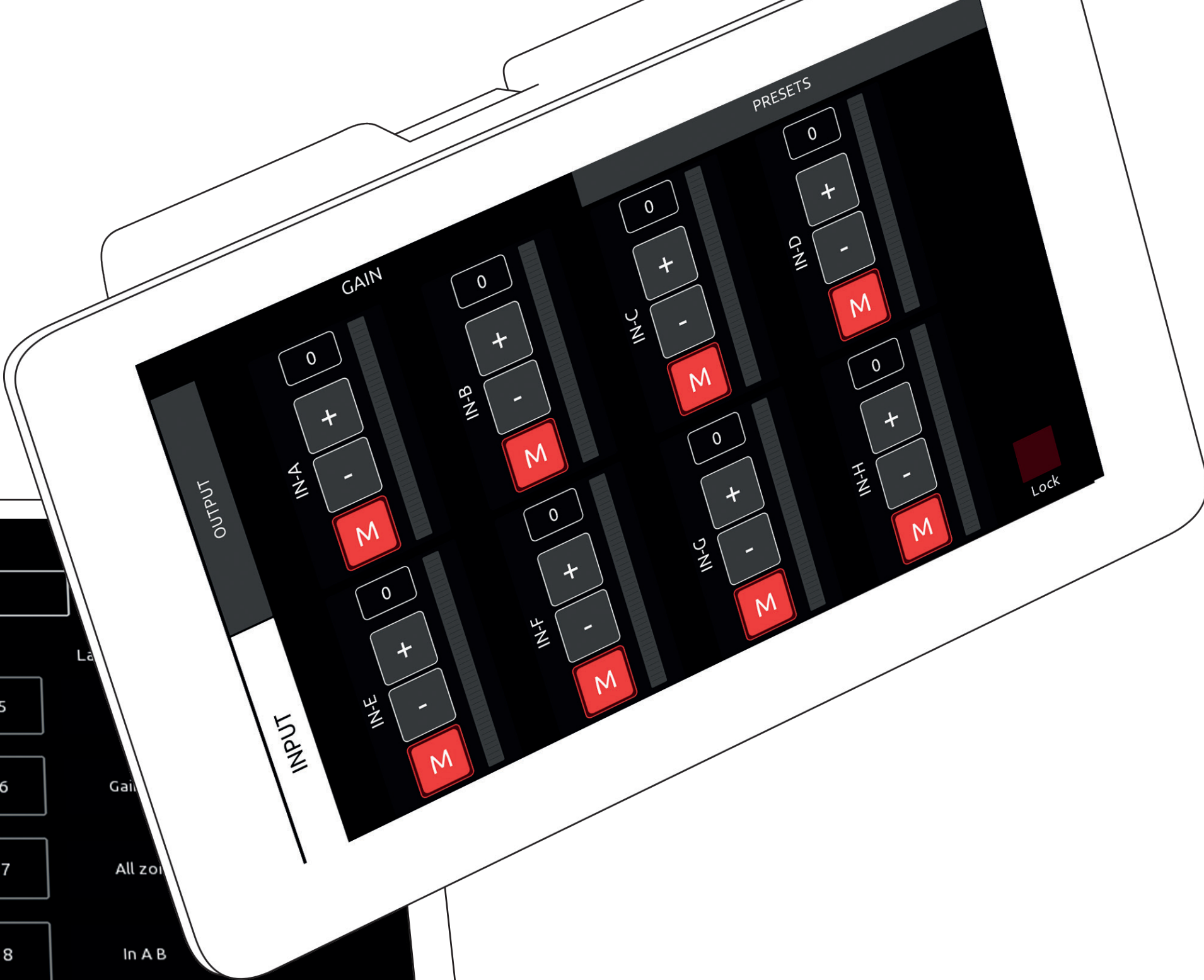
The INTEGRAL-WP3 automatically launches (when connected) the TouchOSC application to control the M and MA devices.

Key features

- 7" Touch screen panel
- Control and management of Integral series devices via OSC
- Power over Ethernet, PoE
- Horizontal panel orientation
- Resolution 800 x 480 px

 TouchOSC





ESET 5

ESET 6

ESET 7

ESET 8

La

Gain

All zo

In A B

Specifications

VCI

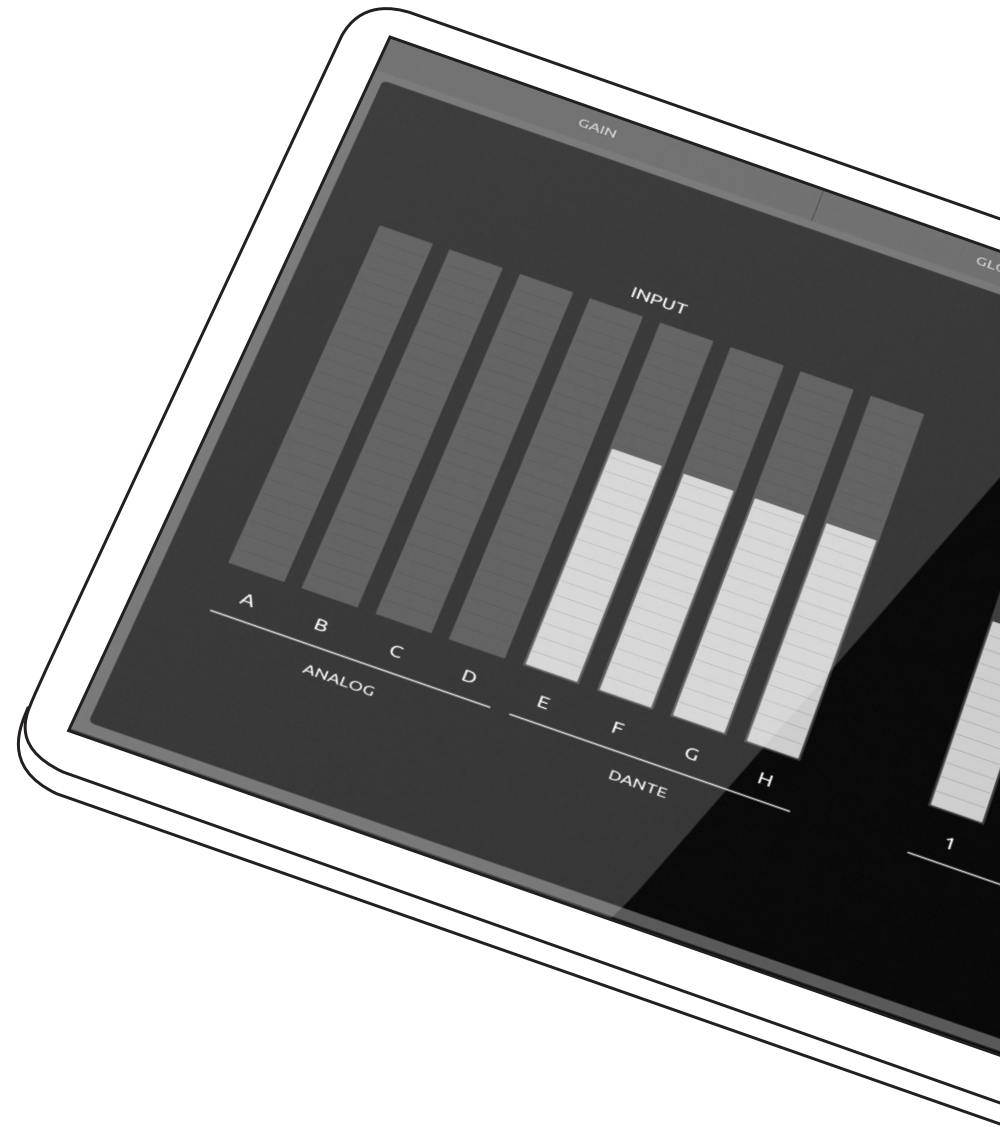
Dimensions (H x W x D)	86 x 86 x 52 mm 3.4 x 3.4 x 2.0 in				
Net Weight	0,3 kg (0.1 lb)				
Power Handling	120 W				
Frequency Response	20 Hz - 20 kHz				
Taps	Tap 1 0 dB	Tap 2 -6 dB	Tap 3 -12 dB	Tap 4 -18 dB	Tap 5 OFF
Attenuation	6 dB				

WPM1

Input Sensitivity / Impedance	Line: -10 dBV / 10 kohms MIC: -40 or -20 dBV / >1 kohm
Output Level / Minimum Load	0dBV / 600 ohm (max. + 17 dBV)
Frequency Response	Line: 20 Hz - 20 kHz / MIC: 120 Hz - 20 kHz
Total Harmonic Distorsion	Line: < 0.005 % / MIC: < 0.01 %
Signal to Noise Ratio	Line: >105 dB / MIC: > 90 dB
Talk-Over	30dB / 2s
Phantom Voltage	12 Vdc
External Power Supply	12-24 Vdc
Power Consumption	25 mA

WP3

Technology	Capacitive Touch Screen
Panel Dimensions (H x W x D)	115 x 197 x 59 mm / 4.5 x 7.75 x 2.3 in
Required Wall box Depth	36mm / 1.4 in
Viewable Screen Dimensions	155 x 86 mm
Viewable Screen Size (Diagonal)	177mm / 7"
Resolution	800 x 480 px
Connectivity / Power	IEEE PoE 802.3af via LAN port
Weight	0,5 kg (1.1 lb)



INTEGRAL-AS2

INTEGRAL-AS2 is an stereo rack mount audio source with two independent channels. It is equipped with CD player, FM/AM tuner, two USB slots and two BT channels for wireless connectivity. It performs 2x unbalanced and 2x balanced stereo audio outputs.

The front panel integrates two screens to display the information of each channel and a collection of buttons to navigate and activate the different features available. IR remote control, FM/AM antennas and 2x RCA cables are included.

Key features

- Dual channel stereo professional audio source
- FM/AM tuner, USB slots, BT wireless and CD
- 2 x Stereo Balanced audio outputs (XLR)
- 2 x Stereo Unbalanced audio outputs (RCA)
- Accessories included: FM, AM antenna, IR remote control, 2 x RCA cable





INTEGRAL-MC01

INTEGRAL-MC01 is an electret condenser gooseneck microphone for voice announcements. The desktop base allows quick installation in conference rooms, retail stores, gyms, etc. The base features two balanced input/output XLR connectors which enable direct connection to the audio receiver device.

A push button with LED indicator lets the user activate or deactivate the microphone locally. The desktop base incorporates a pre-amplifier powered by two AAA batteries (3 Vdc) in case it cannot be connected to Phantom power.

Key features

- Condenser gooseneck microphone
- Wide dynamic range and frequency response
- Accurate sound reproduction
- 12-48Vdc Phantom power required (or 3 Vdc batteries)
- Cardioid pattern



INTEGRAL-MC02

INTEGRAL-MC02 is a Dante-enabled electret condenser gooseneck microphone for voice announcements. The desktop base allows quick and easy installation in conference rooms, retail stores, hotels, gyms, etc., where distances between the audio sources and receivers are relatively large.

The base incorporates a balanced XLR input connector and a RJ45 connector for Dante digital audio. The push button included allows local control of the unit.

Key features

- Dante-enabled condenser microphone
- Wide dynamic range and frequency response
- Accurate sound reproduction
- Cardioid pattern
- Power over Ethernet
- Integrated user on/off push button switch
- Red LED indicator when active
- Desktop-base gain control



Specifications

AS2

System	2 Channels Multimedia Player
Compatible Media	L Channel: CD / USB / Bluetooth R Channel: USB/Bluetooth/FM (RDS)/DAB + (DAB)/AM
Playable Formats	CD: CD / CD-R / CD-RW USB: MP3 / WAV / WMA / FLAC / APE
Bluetooth Version	Version 5.0
ELECTRONICS AND AUDIO	
Frequency Range	FM (RDS): 87.50 – 108.00 MHz DAB + (DAB): 168.00 – 240.00 MHz AM: 522 – 1620 kHz
Frequency Response	20 Hz – 20 kHz (+0, -0.5 dB)
Signal to Noise Ratio	>105 dB
Total Harmonic Distortion	< 0.005%
Unbalanced L/R Outputs	2 x RCA Level: 2 Vrms (max. 10 dBu) @ 10 kohms load Load Impedance: > 10 kohms
Balanced L/R Outputs	2 x XLR (1: GND 2:HOT 3:COLD) Level: 8.23 dBu (max. 24 dBu) @ 600 ohms load Load Impedance; > 600 ohms
Power Supply	AC 60/50 Hz with selector 115/230 V
Current Draw 230 V / 115 V	0.13 A/ 0.26 A
Dimensions (H x W x D)	45 x 480 x 255 mm 1.9 x 14,6 x 10,5 in
Net Weight	3,4 kg (7.5 lb)

MC01

MC02

Microphone Type	Electret Condenser	Electret Condenser
Frequency Response	40 Hz -16 kHz (+0 -0.5dB)	40 Hz -16 kHz (+0 -0.5dB)
Output Impedance	75 Ohm	-
Input Impedance	-	2.2 kohms
Max Input	-	0 dBu
Polar Pattern	Cardioid	Cardioid
Sensitivity	-	-44 dB
Power Requirements	12-48 Vdc Phantom or 3 Vdc Batteries	PoE IEEE802.3af
Power Consumption	25 mA	15W
Dimensions (H x W x D)	360 x 115 x 142 mm 14.0 x 4.5 x 5.6 in	370 x 103 x 157 mm 14.5 x 4.0 x 6.2 in
Net Weight	0,6 kg (0.3 lb)	1,3 kg (0.6 lb)



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