









2CH





- Small-scale systems, portable and installed
- Stage monitors
- ► Hotels, restaurant and bars
- Amusement parks, themed entertainment
- ► Houses of worship, auditoriums
- ▶ Educational facilities
- Live and dance clubs
- Mobile DJ's

Equally versatile in both portable and installed system configurations, occupying only one single rack space and weighing just over 7 kg / 16 lb, the **M14D** is a flexible, great sounding solution for compact sound systems.

Benefitting from core technologies of Powersoft's flagship K Series, the **M14D** is highly efficient, leading to low power consumption, and consequently to substantial money savings on electricity, all in an eco-friendly way.

Minimum heat dissipation makes the **MI4D** suitable for hot or otherwise challenging environments.

Added the legendary sound quality thanks to Powersoft's unique, patented Class D output stage design, the MI4D represents a fantastic value, practically as well as commercially.

The **M14D** comes with 4 years warranty and, like all Powersoft products, is entirely designed and made in Italy.

2-chann	mono-bridged mode	
4 Ω / Ch	4 Ω / Ch 8 Ω / Ch	
700 W	360 W	1,400 W

EIAJ Test Standard, I kHz, I% THD

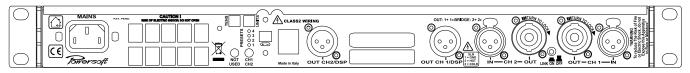
- ✓ Legendary Powersoft efficiency:
 - ► Compact and space saving: I RU at 358 mm / I4.I" standard depth
 - Green Audio Power®: minimal "carbon footprint" and operational cost of electricity
 - ▶ Plenty of power, little weight: up to 2,800 W in 7.3 kg / 16 lb
- ✓ Unique Powersoft technology for efficient, reliable performance:
 - ▶ Switch mode power supply, internally switchable 230/115 V nominal
 - ► Fixed frequency switch mode amplifier output stages
 - ▶ Patented amplifier output filters with ripple cancellation network
- \checkmark Optimized for 4 Ω loads, thus ideally matching real-world scenarios in targeted applications
- ✓ Fully protected circuit design:
 - ► AC protection: shuts down power supply when AC mains voltage is outside operating range
 - ► Clip limiter: prevents severely clipped waveforms from reaching loudspeakers, while still maintaining full peak power output
 - ▶ DC protection: protects against infrasonic signal at the outputs
 - ► VHF protections: protects the loudspeakers against destructive non-audible, non-musical high frequency signals
 - Short circuit protection: protects the amplifier from short circuit or similar events on the outputs; with automatic protection reset
 - Thermal protection: mutes outputs once output devices reach 75 °C / 167 °F; automatic unmute once temperature is down to 65 °C / 149 °F
- ✓ Temperature controlled continuous variable speed fan, front to rear airflow
- ✓ Recessed stepped level attenuators
- ✓ Full four years warranty
- ✓ Also available as MI4D HDSP+ETH with integrated DSP and Ethernet comm port





Powersoft

2-Channel Power Amplifier for Touring and Install Applications



Specifications

Number of chammels	Specifica	tions							
Output power Roy Part Part Roy	General								
BA Test Standard, 1 Hz, 1 K THD 700 W 360 W 1,400 W 1,40		Number of channels	2						
Max output voltage / current 700 W 350 W 1400 W 1600 W		Output power				mono-bridged mode			
Max output voltage / current SV_may 55 Apresh			4 Ω / Ch		8 Ω / Ch	· ·			
Max output voltage / current AC Mains Power AC Mains Power		,, ,	700 W			· ·			
AC Mains Power supply		Max output voltage / current		85 \		1,120			
Power supply Questions Consumption of current draw Q 230 V Q 3A Q 34 Q 15 V	AC Mains Da	· -		03 (реак / оо / греак				
Operating voltage / Institut current Consumption / Current current Consumption / Current current Med Max output power @ 4 Ω 230 W 39 W 39 W 38 A 38 A 39 W 38 A	AC Mains Po			11.2					
Consumption / current draw (a) 30 V			-						
Ide 39 W 0.3 A 39 W 0.6 A 18 A									
18 of max output power @ 4Ω 283 W 19 A 283 W 7.A						_			
Thermal Environmental operating temperature Thermal Environmental operating temperature Thermal dissipation Thermal di									
Environmental operating temperature									
Environmental operating temperature		I/4 of max output power @ 4 Ω	538 W	3.5 A	538 W	/ A			
Environmental operating temperature Thermal dissipation Ide IF an, continuously variable speed, temperature controlled, front to rear sinflow Ide IF an acontinuously variable speed, temperature controlled, front to rear sinflow 33 kcul/h 33 kcul/h 33 kcul/h 33 kcul/h 33 kcul/h 33 kcul/h 44 of max output power @ 4 Ω Audio Gain San 32 d8, 30 d8, 28 d8, 24 d8, 24 d8, 22 d8, 20 d8, 18 d8, 14 d8, 4 d8, ∞ user selectable Frequency response SiN ratio (amplifer section) Crosstalk separation Input sensitivity @ 8 Ω IAV IS 14 db Hax input level Input impedance ID kΩ THD-NY ISMPTE IMD DIFFIEID									
Fan. continuously variable speed, temperature controlled, front to rear airflow life 133 BTU/h 33 kcal/h 18 of max output power @ 4 Ω 368 BTU/h 93 kcal/h 162 kcal/h 164 kcal/h 162	Thermal								
Idle									
Audio 1/4 of max output power @ 4 Ω 368 BTUh 93 kcal/h 162 kcash		·							
Audio Gain				I33 BTU/h					
Audio Gain 32 dB. 30 dB. 28 dB. 26 dB. 24 dB. 22 dB. 20 dB. 18 dB. 14 dB. 4 dB∞, user selectable Frequency response 10 Hz 30 kHz (1 W @ 8 Ω ± 3 dB)									
Cain 32 dB, 30 dB, 28 dB, 26 dB, 24 dB, 20 dB, 18 dB, 14 dB, 4 dB, -∞, user selectable		I/4 of max output power @ 4 Ω	641	BTU/h		162 kcal/h			
Frequency response 10 Hz - 30 kHz (1 W @ 8 Ω ± 3 dB)	Audio								
S/N ratio (amplifier section)		Gain	32 dB, 30 dB, 28 dB, 26 dB, 2	24 dB, 22 dB, 20 dB, 18 dB, 1	4 dB, 4 dB, -∞, user selectable				
Crosstalk separation >70 dB @ I kHz Input separativity @ 3Ω		Frequency response	10 Hz - 30 kHz (1 W @ 8 Ω,	± 3 dB)					
Input sensitivity @ 8 Ω		S/N ratio (amplifier section)	>70 dB @ I kHz						
Max input level 6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Crosstalk separation							
Input impedance 10 k Ω		Input sensitivity @ 8 Ω							
THD+N / SMPTE IMD DIMIOD MID Size wrate Damping factor @ 8 Ω SSOO @ 100 Hz DSP (optional) A/D converter D/A converter D/A converter D/A converter CS4398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Prequency response @ -3 dB THD- < 0.01% (20 Hz - 20 kHz) THD Converter CS4398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB THE- 22 kHz THD Presets Bank of 4 presets, management and upload via Armonia Pro Audio Suite™ Delay for time alignment Consover filters Delay for time alignment Ul ms per output Consover filters Dutput equalizer up to 12 biquad fully parametric per channels peaking, hillo shelving, hillo pass, band stop, Unput equalizer up to 5 biquad filty parametric per channels peaking, hillo shelving, hillo pass, band stop, Unput equalizer Up to 5 biquad filty parametric per channels peaking, hillo shelving, hillo pass, band stop, Unput equalizer Up to 5 biquad filty parametric per channels peaking, hillo shelving, hillo pass, band stop, Unimiters Peak limiter, RPS (PEC, shelving, band pass, band stop, all pass) Limiters Peak limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band pass, band stop, all pass) Limiters Peak Limiter, PRS (limiter, PRE) (shelving, band shelving,		Max input level	6 V / 17.7 dBu						
DIM100 IMD Slew rate 40 Vijus @ 8.0, input filter bypassed 20.1 W		Input impedance	10 k Ω						
Slew rate A0 V/µs @ 8 Ω input filter bypassed		THD+N / SMPTE IMD	≤ 0.05% @ 1/2 of full power						
Damping factor @ B Ω >5000 @ 100 Hz DSP (optional) A/D converter C55381, 2 channels, 24 bit / 48 kHz, 120 dB SNR D/A converter C54938, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB 7 Hz - 22 kHz THD < 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment 10 ms per output Crossover filters Butterworth, Linkwitz-Riley, Bessel, 6 dB/oct to 48 dB/oct Output equalizer up to 12 biquad filty parametric per channel: peaking, hi/lo pass, band pass, band stop. Input equalizer up to 15 biquad filters (PEQ, shelving, band pass, band stop, all pass) Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter System Delay up to 170 ms for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls 1 stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Rear Panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 1 x RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x PJ45 with activity LED with 2 rotary address switches 1 x		DIMI00 IMD	typ. <0.005% (<0.02% @ >0).I W)					
DSP (optional) A/D converter D/A converter CS5381, 2 channels, 24 bit / 48 kHz, 120 dB SNR Prequency response @ -3 dB 7 Hz - 22 kHz THD C 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment Dompier output Crossover filters Output equalizer Up to 12 biquad filters (PCQ, shelving, band pass, band stop, all pass) Limiters Damping control System Delay Up to 12 Hz, range ± 2 Ω System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Limiters Damping control System Delay Up to 17 W For Elbers Up to 18 W		Slew rate	40 V/μs @ 8 Ω, input filter by	ypassed					
A/D converter D/A converter D/A converter CS5381, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB 7 Hz - 22 kHz THD < 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment I 0 ms per output Crossover filters Dutput equalizer Up to 12 biquad filters (PEQ, shelving, band pass, band stop, all pass) Limiters Peak limiters, RMS limiters (PEQ, shelving, band pass, band stop, all pass) Limiters Damping control System Delay Up to 170 ms for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 × green, 1 × red 2 status LEDs: 1 × green, 1 × yellow Louts filter foam behind front panel Rear Panel Rear Panel Audio signal input connectors Loudspeaker output connectors 2 × balanced Neutrik® XLR female Loudspeaker output connectors 1 × RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 × RJ45 with activity LED with 2 rotary address switches Loudspeaker output connectors Aux voltage 1 × 2-pin Phoenix type MC 1.5/2-5T-3.81 AC mains Controls L × link switch, linking analog inputs 1 & 2 Construction		Damping factor @ 8 Ω	>5000 @ 100 Hz						
D/A converter Frequency response @ -3 dB 7 Hz - 22 kHz THD < 0.01% (20 Hz - 20 kHz) Presets	DSP (options	al)							
Frequency response @ -3 dB THD < 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment I0 ms per output Crossover filters Butterworth, Linkwitz-Riley, Bessel, 6 dB/oct to 48 dB/oct Output equalizer up to 12 biquad filter parametric per channel: peaking, hi/lo belving, hi/lo pass, band pass, band stop. Input equalizer up to 12 biquad filter (PC), shelving, band pass, band stop, all pass) Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter System Delay up to 170 ms for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls 1 stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Rear Panel Audio signal input connectors Network data port Ethernet 1 x RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 x Pushbutto (stepping through bank of 4 presets) 1 x 9 LED preset indicators Aux voltage 1 x 2-pin Phoenix type MC 1.5/2-ST-3.81 Controls 1 x link switch, linking analog inputs 1 & 2 Construction THO Controls 1 x link switch, linking analog inputs 1 & 2 Construction									
THD		D/A converter							
Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment 10 ms per output Crossover filters Butterworth, Linkwitz-Riley, Bessel, 6 dB/oct to 48 dB/oct Output equalizer up to 12 biquad fully parametric per channel: peaking, hi/lo shelving, hi/lo pass, band pass, band stop. Input equalizer up to 5 biquad filters (PEQ, shelving, band pass, band stop, all pass) Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter Damping control < 120 Hz, range ± 2 Ω System Delay up to 170 ms for 2 lN/2 OUT or 340 ms for 1 lN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls 1 stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Rear Panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input 1 x RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 x RJ45 with activity LED with 2 rotary address switches 1 x Pushbutton (stepping through bank of 4 presets) 1 x 4 LED preset indicators Aux voltage 1 x 2-pin Phoenix type MC L5/2-ST-3.81 AC mains 1EC C13 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation Controls 1 x link switch, linking analog inputs 1 & 2 Construction		Frequency response @ -3 dB							
Delay for time alignment 10 ms per output		THD							
Crossover filters		Presets	Bank of 4 presets, manageme						
Output equalizer		Delay for time alignment	10 ms per output						
Output equalizer		_							
Input equalizer		Output equalizer							
Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter		Input equalizer							
System Delay up to 170 ms for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls 1 stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Rear Panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input 1 x RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 x Pushbutton (stepping through bank of 4 presets) 1 x 9 LeD preset indicators Aux voltage 1 x 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains IEC C13 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation Controls 1 x link switch, linking analog inputs 1 & 2 Construction			Peak limiter, RMS limiter, free						
System Delay		Damping control	$<$ 120 Hz, range \pm 2 Ω						
Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls I stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input Network data port Ethernet 1 x RJ45 with activity LED with 2 rotary address switches DSP preset selection 1 x Pushbutton (stepping through bank of 4 presets) 1 x 4 LED preset indicators Aux voltage 1 x 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains Controls I x link switch, linking analog inputs 1 & 2 Construction			up to 170 ms for 2 IN/2 OU	T or 340 ms for 1 IN/2 OUT					
2 status LEDs: 1 x green, 1 x yellow Controls	Front Panel		·						
Controls Maintenance Dust filter foam behind front panel Rear Panel Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage Aux voltage AC mains Controls I stepped level attenuator pot per channel; mains switch Dust filter foam behind front panel 2 × balanced Neutrik® XLR female 2 × Neutrik® XLR male hard-wired to the corresponding input I × RJ45 with activity LED with 2 rotary address switches DSP preset selection I × Pushbutton (stepping through bank of 4 presets) I × 4 LED preset indicators Aux voltage I × 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains Controls I × link switch, linking analog inputs I & 2 Construction		Indicators	4 LEDs per channel: 3 x gree	en, I x red					
Maintenance Dust filter foam behind front panel Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage Aux voltage AC mains Controls Dust filter foam behind front panel 2 x belanced Neutrik® XLR female 2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input 1 x RJ45 with activity LED with 2 rotary address switches 1 x Pushbutton (stepping through bank of 4 presets) 1 x 4 LED preset indicators Aux voltage 1 x 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains Controls 1 x link switch, linking analog inputs 1 & 2 Construction			2 status LEDs: x green, x yellow						
Rear Panel Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection I × Pushbutton (stepping through bank of 4 presets) I × 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains Controls Construction Audio signal input connectors 2 × balanced Neutrik® XLR female 2 × Neutrik® XLR male hard-wired to the corresponding input I × RJ45 with activity LED with 2 rotary address switches I × Pushbutton (stepping through bank of 4 presets) I × 4 LED preset indicators I × 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains Controls Construction									
Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage AC mains Construction A which is a factor of the connectors of the corresponding input in the corresponding input input input input input in the corresponding input		Maintenance	Dust filter foam behind from	t panel					
Loudspeaker output connectors Network data port Ethernet DSP preset selection Law 1	Rear Panel								
Network data port Ethernet I x RJ45 with activity LED with 2 rotary address switches I x Pushbutton (stepping through bank of 4 presets) I x 4 LED preset indicators Aux voltage I x 2-pin Phoenix type MC 1.5/2-ST-3.81 AC mains IEC Cl3 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation Controls I x link switch, linking analog inputs 1 & 2 Construction		Audio signal input connectors	2 × balanced Neutrik® XLR	2 x balanced Neutrik® XLR female					
DSP preset selection X Pushbutton (stepping through bank of 4 presets) X 4 LED preset indicators Aux voltage		Loudspeaker output connectors	2 × Neutrik® Speakon NL41	2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input					
I x 4 LED preset indicators Aux voltage		Network data port Ethernet							
Aux voltage AC mains Controls I x 2-pin Phoenix type MC 1.5/2-ST-3.81 IEC C13 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation I x link switch, linking analog inputs 1 & 2 Construction									
AC mains Controls IEC C13 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation I x link switch, linking analog inputs 1 & 2 Construction			I x 2-pin Phoenix type MC I.5/2-ST-3.81						
Controls I x link switch, linking analog inputs 1 & 2 Construction		_							
Construction									
		Controls	I × link switch, linking analog	inputs I & 2					
	Constructio	n							
Dimensions W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1"		Dimensions	W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1"						
		Chassis		I mm (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole protection, steel side					
		\\\ : -1 .	reinforcement & rear support						
Weight 7.3 kg / 16 lb		vveignt	1.3 Kg / 10 IU						

I) External high-pass filter required.

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