## K3 DSP+AESOP



2-Channel Power Amplifier with DSP and Networking for High-Performance Portable Sound Systems and Touring





☐ Installation

**2**CH









5,600 W



- Small to medium-scale touring systems, FOH
- ► Small-scale subwoofers
- ► Full-range loudspeakers
- Stage monitoring for
- ▶ Concert halls
- Live clubs
- Corporate events

While safe and stable with  $2~\Omega$  loads like all K Series models, the **K3 DSP+AESOP** is optimized for  $4~\Omega$  loudspeakers. Built on the same unique Powersoft technologies as its much more powerful siblings, it also occupies only a single space in a 19" rack, yet at even less depth, and weighing as little as 8~kg/17.7~lb.

A fully integrated state-of-the-art **DSP** yields extensive system management functionality. IIR/FIR filters, safety features like TruePower™ limiting and LiveImpedance™, as well as the convenient Active DampingControl™ are intuitively manageable with the free PC software Armonía Pro Audio Suite™.

The **AESOP** interface provides four standard Ethernet ports, adding hub functionality for two AES3 digital audio streams equivalent to 4 analog signal channels over the same RJ45, allowing for a redundant ring architecture too.

All features added up, plus versatility and usability along with the sonic performance taken into account, the **K3 DSP+AESOP** represents a highly attractive mix and an exceptionally great value for almost any sound professional, no matter what type of loudspeaker it is connected to. So, it must not surprise that the K3 is one of the best selling amplifier models in the entire Powersoft range.

	2-channel mode		mono-brid	lged mode
$2 \Omega$ / Ch	4 $\Omega$ / Ch	8 $\Omega$ / Ch	4 $\Omega$ / Ch pair	8 $\Omega$ / Ch pair

1,400 W

EIAJ Test Standard, I kHz, I% THD

5,200 W

#### ✓ Legendary Powersoft efficiency:

- Unequaled Class D design with fixed switching frequency
- Universal switch mode power supply with PFC (Power Factor Correction)
- ► Space and weight saving: only one rack space (1 RU) and 8 kg/17.7 lb
- ► Green Audio Power®: more amplifier output power from the AC mains power distribution due to >85% efficiency

#### ✓ Outstanding performance and operational safety:

2,600 W

- Excellent sonic quality by design, including amp clip limiters and patented ripple cancellation network
- Proven reliability, yet downloadable log file of all functional fault events with time-related trace
- Numerous amp/system/venue parameters can be configured, locked, and monitored; i.e. AC mains voltage/current draw to protect from breaker tripping

#### ✓ Highly integrated:

- ► Top-grade DSP with high dynamic range and extensive feature set
- Separate input/output EQ's with numerous filters of various types up to 48 dB/oct (IIR), linear phase (FIR), and hybrid (FIR+IIR)
- ► Sophisticated limiter system comprising peak, RMS voltage, RMS current, and TruePower™ limiting
- ► Speaker wire compensation with Active DampingControl™
- ► LiveImpedance<sup>™</sup> load monitoring with regular musical signal

#### ✓ Plug & play communication and redundancy for control and digital audio:

- ► Fully digitally controlled amplifier providing feedback of all status information
- 4-port AESOP Ethernet/AES3 interface allowing daisy-chaining and redundant ring architecture
- ► Fully manageable via Armonía Pro Audio Suite<sup>™</sup> software, intuitive system setup and maintenance, control and monitoring
- AES3 digital audio distribution over Cat-5e cable: two streams equaling four analog channels, low latency, glitchless fallback to analog backup signal

#### ✓ Practically versatile:

- ▶ Mono-bridgeable amplifier channels; switch for linking analog signal inputs
- ► AC inrush current limiting; channel output voltage limiting
- ► Digital gain attenuator for gain/sensitivity selection
- ✓ Front panel interactive LCD display for local access and configuration
- ✓ Front panel SmartCard reader/writer for firmware updates and preset storage
- ✓ Front-to-rear airflow cooling with variable-speed fan, temperature controlled
- ✓ Full protection circuitry: over/under AC voltage; troublesome signals (clipping, VHF, long-term RMS); DC; thermal; short circuit; mute at power on/off
- ✓ Full four years warranty
- ✓ Options & accessories:
  - ► SmartCard, for firmware updates or preset storage
  - Armonía Pro Audio Suite, free at www.armoniasuite.com



# K3 DSP+AESOP



### 2-Channel Power Amplifier with DSP and Networking for High-Performance Portable Sound Systems and Touring



#### **Specifications**

General								
	Number of channels			2				
			staraa mada	2	ma	no bridged mede		
	Output power	2 <b>Ω</b> /ch	stereo mode 4 Ω/ch	8 <b>Ω</b> /ch	4 Ω	mono-bridged mode		
	EIAJ Test Standard, I kHz, I% THD	2,800 W	4 <b>Ω</b> /cn 2,600 W	8 <b>12</b> /cn	5,600 W	8 Ω 5,200 W		
	May output valtage / support	2,000 VV		,		5,200 VV		
	Max output voltage / current			165 V <sub>peak</sub> / 102 A <sub>pe</sub>	ak			
C Mains Po								
	Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)						
	Operating voltage	100-240 V ±10%, 50/60 Hz						
	Power factor cos (φ)	>0.95 @ >500 W						
	Consumption / current draw		@ 230 V		@	15 V		
	Idle	88 W	1.35 A		69 W	1.2 A		
	I/8 of max output power @ 4 $\Omega$	813 W	4 A		813 W	8 A		
	I/4 of max output power @ 4 $\Omega$	1,625 W	7.4 A		1,625 W	14.8 A		
hermal								
	Environmental operating temperature	0° - 45° C / 32° - 113° F						
	Thermal dissipation	Fan, continuously variable speed, temperature controlled, front to rear airflow						
	Idle		382 BTU/h			96 kcal/h		
I/8 of max output power @ 4 $\Omega$			836 BTU/h		211 kcal/h			
	1/4 of max output power @ 4 $\Omega$		,390 BTU/h		326 kcal/h			
udio	"4 of max output power @ 4 22		,570 10 10/11		326	NCUI/11		
udio	Gain, selectable	26 dB	29 dB		32 dB	35 dB		
	Input Sensitivity @ 8 Ω	5.30 V	3.75 V		2.66 V	1.88 V		
		27 dBu	3.75 V 24 dBu					
	Max input level	-52 dBu	-55 dBu		21 dBu -58 dBu	18 dBu -61 dBu		
	Gate	-52 dBu				-61 GBU		
	Frequency response			20 kHz (I W @ 8 Ω	,			
	S/N ratio (amplifier section)	>106 dBA (20 Hz - 20 kHz, A weighted)						
	Crosstalk separation	> 70 dB @ I kHz						
	Input Impedance	10 k $\Omega$ balanced						
	THD+N/SMPTE IMD/DIM 100 IMD		pically <0.05%)					
	Slew rate	50 V/ $\mu$ s @ 8 $\Omega$ , input filter bypassed						
	Damping factor @ 8 $\Omega$	>5000 @ 20-200 Hz						
SP			_					
	A/D converter	Dual 24bit 96 kHz Tandem® architecture with 127 dBA of dynamic range and THD <0.005% (20 Hz - 20 kHz)						
	D/A converter		Dual 24bit 96 kHz Tandem® architecture with 122 dBA of dynamic range and THD <0.003% (20 Hz - 20 kHz)					
		8 MB (RAM) plus 2 MB (flash for presets)						
	Memory							
	Memory Presets	8 MB (RAM) plus 2 MB (to 50 stored locally + 150 st						
	•	50 stored locally + 150 st						
	Presets	50 stored locally + 150 st AES3 (glitchless fallback t	tored on a smartcard	out, sample-by-samp	ole stepping			
	Presets Digital audio input	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outp			phase (FIR), hybrid (FIR+IIR)		
	Presets Digital audio input Delay for time alignment	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outp iley, Bessel, Arbitrary Asym per channel, IIR: peaking, I	metric, 6dB/oct to	48dB/oct (IIR), linear	. , , ,		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outp iley, Bessel, Arbitrary Asym per channel, IIR: peaking, h	nmetric, 6dB/oct to ni/lo shelving, hi/lo p	48dB/oct (IIR), linear pass eq, band pass, bar	nd stop, all pass. Custom FIR		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outp iley, Bessel, Arbitrary Asym per channel, IIR: peaking, h Hz d cosine, shelving), 32 filter	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to	nd stop, all pass. Custom FIR		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raised up to 2 Ω negative/positi	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, Hz d cosine, shelving), 32 filter ve wire compensation (Act	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContro	48dB/oct (IIR), linear pass eq, band pass, bar rs, up to 256 filters to	nd stop, all pass. Custom FIR		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raised up to 2 Ω negative/positi	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outp iley, Bessel, Arbitrary Asym per channel, IIR: peaking, h Hz d cosine, shelving), 32 filter	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContro	48dB/oct (IIR), linear pass eq, band pass, bar rs, up to 256 filters to	nd stop, all pass. Custom FIR		
ront Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raised up to 2 Ω negative/positi Power limiter (TruePowe	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, HZ d cosine, shelving), 32 filter ve wire compensation (Act	metric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContro rent) + Peak Limite	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to bl™)	nd stop, all pass. Custom FIR		
ront Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raised up to 2 Ω negative/positi Power limiter (TruePowe	tored on a smartcard to analog audio selectable) ation, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, HZ d cosine, shelving), 32 filter ve wire compensation (Actar <sup>TM</sup> , RMS voltage, RMS curlxyellow, I x red, top ye	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to bl™)	nd stop, all pass. Custom FIR		
ront Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePowe	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz d cosine, shelving), 32 filter ve wire compensation (Acter M. RMS voltage, RMS cur I x yellow, I x red, top ye depending on user menu; n	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to bl™)	nd stop, all pass. Custom FIR		
ront Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 × green, 4 pushbuttons, function of 2 × RJ45 with activity LEC	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz d cosine, shelving), 32 filter ve wire compensation (Actar RMS voltage, RMS cur I x yellow, I x red, top ye depending on user menu; nos	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 × green, 4 pushbuttons, function of 2 × RJ45 with activity LEC	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz d cosine, shelving), 32 filter ve wire compensation (Acter M. RMS voltage, RMS cur I x yellow, I x red, top ye depending on user menu; n	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHZ do cosine, shelving), 32 filter we wire compensation (Actur, RMS voltage, RMS cur I x yellow, I x red, top ye depending on user menu; nos for firmware updates and	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz d cosine, shelving), 32 filter ve wire compensation (Actar RMS voltage, RMS cur I x yellow, I x red, top ye depending on user menu; nos	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
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	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance Audio signal input connectors	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Neu	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHZ do cosine, shelving), 32 filter we wire compensation (Actar <sup>TM</sup> , RMS voltage, RMS curlivellow, Ix red, top ye depending on user menu; nos for firmware updates and utrik® XLR female; AES3: utrik® XLR male	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance Audio signal input connectors Audio signal output connectors	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positir Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Neu Analog: 2 x balanced Neu	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHZ do cosine, shelving), 32 filter we wire compensation (Acturally, RMS voltage, RMS curlives), RMS voltage, RMS curlives, Immediate and cosine, shelving, Immediate and cosine, shelving, and selection of the selecti	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Neu Analog: 2 x balanced Neu 2 x Neutrik® Speakon Neu	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz do cosine, shelving), 32 filter we wire compensation (Acter™, RMS voltage, RMS curl x yellow, I x red, top ye depending on user menu; nDs for firmware updates and utrik® XLR female; AES3: utrik® XLR male IL4MD Dos	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIF tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raise up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Net 2 x Neutrik® Speakon N 2 x RJ45 with activity LEE I x 2-pin Phoenix P. 3.81r	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz docsine, shelving), 32 filter we wire compensation (Acter™, RMS voltage, RMS curlivella, and the selection of	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite flow and red show a nains switch preset storage. Dur	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet Aux voltage	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raise up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Net 2 x Neutrik® Speakon N 2 x RJ45 with activity LEE I x 2-pin Phoenix P. 3.81r EC20A with IEC20A Schi	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz dossine, shelving), 32 filter we wire compensation (Acter™, RMS voltage, RMS curl x yellow, I x red, top ye depending on user menu; n Ds for firmware updates and utrik® XLR female; AES3: utrik® XLR male IL4MD Ds mm	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite flow and red show a nains switch preset storage. Dur use channel 2 XLR	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
ear Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters  Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet Aux voltage AC mains Controls	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raise up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEE SmartCard reader/writer  Analog: 2 x balanced Net 2 x Neutrik® Speakon N 2 x RJ45 with activity LEE I x 2-pin Phoenix P. 3.81r EC20A with IEC20A Schi	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz docsine, shelving), 32 filter we wire compensation (Acter™, RMS voltage, RMS curlivella, and the selection of	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite flow and red show a nains switch preset storage. Dur use channel 2 XLR	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
Sear Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters  Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet Aux voltage AC mains Controls	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raise up to 2 Ω negative/positir Power limiter (TruePower  7 meter LEDs: 5 x green, 4 pushbuttons, function of 2 x RJ45 with activity LEI SmartCard reader/writer  Analog: 2 x balanced Net Analog: 2 x balanced Net 2 x Neutrik® Speakon N 2 x RJ45 with activity LEI I x 2-pin Phoenix P, 3.81r EC20A with IEC20A Schol I x link switch, linking anal	tored on a smartcard to analog audio selectable) ction, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHZ dosine, shelving), 32 filter we wire compensation (Acter RMS voltage, RMS curl x yellow, I x red, top ye depending on user menu; n Ds for firmware updates and utrik® XLR female; AES3: utrik® XLR male IL4MD Ds mm uko for EU, IEC20A/Amerialog inputs I and 2; AES3/a	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite llow and red show a nains switch preset storage. Du- use channel 2 XLR	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol™)  arrangement of the state of the	nd stop, all pass. Custom FIR tal scription on LCD panel		
Front Panel Rear Panel Construction	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters  Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet Aux voltage AC mains Controls	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 × green, 4 pushbuttons, function of 2 × R]45 with activity LEC SmartCard reader/writer  Analog: 2 × balanced Net 2 × Neutrik® Speakon N 2 × R]45 with activity LEC 1 × 2-pin Phoenix P, 3.81r EC20A with IEC20A Schill x link switch, linking and W 483 mm / 19", H 44.5	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHz d cosine, shelving), 32 filter ve wire compensation (Actar M. RMS voltage, RMS curl I x yellow, I x red, top ye depending on user menu; n Ds of for firmware updates and utrik® XLR female; AES3: utrik® XLR male ILLAMD Dosmm uko for EU, IEC20A/Amerialog inputs I and 2; AES3/amm / I RU, D 380 mm / I.	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite flow and red show a nains switch preset storage, Du- use channel 2 XLR can 15A pin plug nalog input switch	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol <sup>Th</sup> ) or alarm with protect des	nd stop, all pass. Custom FIR tal scription on LCD panel wo steel covers		
Rear Panel	Presets Digital audio input Delay for time alignment Crossover filters Output equalizer Input equalizer Cable compensation network Limiters  Indicators Controls Network data port AESOP incl. AES3 Maintenance  Audio signal input connectors Audio signal output connectors Loudspeaker output connectors Network data port Ethernet Aux voltage AC mains Controls Dimensions	50 stored locally + 150 st AES3 (glitchless fallback t up to 4 s on the input sec Butterworth, Linkwitz-Ri 16 fully parametric filters to 384 taps @ 48 or 96 k Three layers (PEQ, raisec up to 2 Ω negative/positi Power limiter (TruePowe  7 meter LEDs: 5 × green, 4 pushbuttons, function of 2 × R]45 with activity LEC SmartCard reader/writer  Analog: 2 × balanced Net 2 × Neutrik® Speakon N 2 × R]45 with activity LEC 1 × 2-pin Phoenix P, 3.81r EC20A with IEC20A Schill x link switch, linking and W 483 mm / 19", H 44.5	tored on a smartcard to analog audio selectable) tion, up to 32 ms per outpiley, Bessel, Arbitrary Asymper channel, IIR: peaking, IHZ do cosine, shelving), 32 filter ve wire compensation (Acter RMS voltage, RMS curl X yellow, I x red, top ye depending on user menu; nos for firmware updates and utrik® XLR female; AES3: 0 utrik® XLR male ILLAMD Dosmm uko for EU, IEC20A/Amerialog inputs I and 2; AES3/amm / IRU, D 380 mm / I.	nmetric, 6dB/oct to ni/lo shelving, hi/lo p s each + group filte tive DampingContri rent) + Peak Limite flow and red show a nains switch preset storage, Du- use channel 2 XLR can 15A pin plug nalog input switch	48dB/oct (IIR), linear pass eq, band pass, barrs, up to 256 filters to ol <sup>Th</sup> ) or alarm with protect des	nd stop, all pass. Custom FIR tal scription on LCD panel wo steel covers		

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