K8 DSP+AESOP



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





2CH











- Medium to large-scale touring systems
- ► FOH & subwoofers
- ► High-power stage monitoring for
- Stadiums & open-air events
- ► Arenas & concert halls
- ► Live clubs

The third-strongest amplifier in K Series, the **K8 DSP+AESOP** is anything but 'small'. With its output power reaching close to 10 kW, it comfortably suits a broad range of applications.

The rather impressive power density paired with unique Powersoft technologies warrants top performance despite running off a single mains phase, while occupying only a single 19" rack unit and weighing only 12 kg/26.5 lb, a result of efficiency exceeding 85%. The **K8 DSP+AESOP** can be software upgraded to become a K10 DSP+AESOP, making it a safe investment that grows with loudspeaker systems without the need for replacing the amp hardware.

Like all K Series models, the **K8 DSP+AESOP** is designed for, and is absolutely stable with, 2Ω loads, further reducing the number of amps required to power a specific system.

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.

2-channel mode			mono-bridged mode		
2Ω / Ch	4 Ω / Ch	8 Ω / Ch	4 Ω / Ch pair	8 Ω / Ch pair	
4,800 W	3,000 W	1,500 W	9,600 W	6,000 W	

EIAJ Test Standard, I kHz, I% THD

✓ 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 12 kg/26.5 lb
- ► Green Audio Power®: more amplifier output power from the AC mains power distribution due to >85% efficiency

✓ Outstanding performance and operational safety:

- 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[™] 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[™] 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

√ Safe investment: Step-up program allows smooth upgrade to K10 DSP+AESOP

✓ Practically versatile:

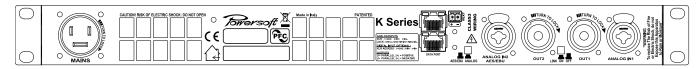
- ▶ Mono-bridgeable amplifier channels; switch for linking analog signal inputs
- ► AC inrush current limiting; channel output voltage limiting
- ► Digital gain attenuator for gain/sensitivity selection
- ✓ Front panel interactive LCD display for local access and configuration
- ✓ SmartCard reader/writer for firmware updates, preset storage, and Step-up
- ✓ 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; Step-up card
 - Armonía Pro Audio Suite, free at www.armoniasuite.com



K8 DSP+AESOP



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



Specifications

Specificat	tions								
General									
	Number of channels			2					
	Output power		stereo mode		mor	no-bridged mode			
	EIA Test Standard, 1 kHz, 1% THD	2 Ω /ch	4 Ω/ch	8 Ω /ch	4 Ω	8 Ω			
		4.800 W	3,000 W	1.500 W	9,600 W	6.000 W			
	Max output voltage / current	1,000 **		,		0,000 **			
	·			169 V _{peak} / 125 A _{peak}					
C Mains Pov									
	Power supply	Universal, regulated swi	tch mode with PFC (Power	Factor Correction)					
	Operating voltage	100-240 V ±10%, 50/60	100-240 V ±10%, 50/60 Hz						
	Power factor cos (φ)	>0.95 @ >500 W							
	Consumption / current draw		@ 230 V		@	15 V			
	Idle	84 W	84 W I.I7 A		91 W	1.3 A			
	I/8 of max output power @ 4 Ω	938 W	4.8 A		938 W	9.5A			
			8.7 A						
	I/4 of max output power @ 4 Ω	1,875 W	8.7 A		1,875W	17.4 A			
hermal									
	Environmental operating temperature		0	° - 45° C / 32° - 113°	F				
	Thermal dissipation	F	an, continuously variable sp	eed, temperature cor	ntrolled, front to rea	rairflow			
	ldle		546 BTU/h		1381	kcal/h			
	I/8 of max output power @ 4 Ω		1,069 BTU/h		270	kcal/h			
	I/4 of max output power @ 4 Ω		1,593 BTU/h			kcal/h			
Audio			.,		102				
tudio	Cain calactable	26 dB	29 dB		27 AB	2C 4D			
	Gain, selectable				32 dB	35 dB			
	Input Sensitivity @ 8 Ω	5.50 V	3.90 V		2.75 V	1.95 V			
	Max input level	27 dBu	24 dBu		21 dBu	18 dBu			
	Gate	-52 dBu	-55 dBu		-58 dBu	-61 dBu			
	Frequency response		20 Hz - 2	20 kHz (1 W @ 8 Ω , :	±0.5 dB)				
	S/N ratio (amplifier section)	>110 dBA (20 Hz - 20 kHz, A weighted)							
	Crosstalk separation	> 66 dB @ I kHz							
	Input Impedance	10 k Ω balanced							
	THD+N/SMPTE IMD/DIM 100 IMD	< 0.5% from 1 W to full power (typically < 0.05%)							
	Slew rate	50 V/μs @ 8 Ω, input filter bypassed							
	Damping factor @ 8 Ω			>5000 @ 20-200 Hz	•				
OSP	Damping factor @ 032			- 3000 @ 20 200 1 12					
231	A/D converter	Duel 24kii 97kii Taadasa @ asskiisaskus viith 127 dBA of dusassi asaas and THD <0.0059/ (2011).							
		Dual 24bit 96 kHz Tandem® architecture with 127 dBA of dynamic range and THD <0.005% (20 Hz - 20 kHz) Dual 24bit 96 kHz Tandem® architecture with 122 dBA of dynamic range and THD <0.003% (20 Hz - 20 kHz)							
	D/A converter			3A of dynamic range ai	nd THD <0.003% (20) Hz - 20 kHz)			
	Memory	8 MB (RAM) plus 2 MB	(flash for presets)						
	Presets	50 stored locally + 150 stored on a smartcard							
	Digital audio input	AES3 (glitchless fallback to analog audio selectable)							
	Delay for time alignment	up to 4 s on the input section, up to 32 ms per output, sample-by-sample stepping							
	Crossover filters	Butterworth, Linkwitz-Riley, Bessel, Arbitrary Asymmetric, 6dB/oct to 48dB/oct (IIR), linear phase (FIR), hybrid (FIR+IIR)							
	Output equalizer	16 fully parametric filters per channel, IIR: peaking, hi/lo shelving, hi/lo pass eq, band pass, band stop, all pass. Custom FIR up							
		to 384 taps @ 48 or 96 kHz							
	Input equalizer	Three layers (PEQ, raised cosine, shelving), 32 filters each + group filters, up to 256 filters per channel							
	Cable compensation network	up to 2Ω negative/positive wire compensation (Active DampingControl TM)							
	Limiters	Power limiter (TruePower™, RMS voltage, RMS current) + Peak Limiter							
and Denel	Zimiter 3	Torrer minicel (Traction	ci , i i i o roitage, i i i o esi	renty - reak Entities					
ront Panel									
	Indicators	7 meter LEDs: $5 \times \text{green}$, $1 \times \text{yellow}$, $1 \times \text{red}$, top yellow and red show alarm with protect description on LCD panel							
	Controls	4 pushbuttons, function	depending on user menu						
	Power switch	Mains switch							
	Network data port AESOP incl. AES3	2 x RJ45 with activity LE	:Ds						
	Maintenance	SmartCard reader/writer for firmware updates and preset storage. Easily accessible dust filter foam behind two steel covers							
lear Panel				, , , ,					
icai i aiici	Audio signal input connectors	Analog: 2 x halanced Neutrik® Combo XI P fomala/1/4" incly AES3: uso channel 2 XI P							
		Analog: 2 x balanced Neutrik® Combo XLR female/I/4" jack; AES3: use channel 2 XLR							
	Loudspeaker output connectors	2 x Neutrik® Speakon NL4MD							
	Network data port Ethernet	2 x RJ45 with activity LEDs							
	Aux voltage	I x 2-pin Phoenix P. 3.81mm							
	AC mains	AMP CPC 45A on rear panel; AMP CPC 45A connector mounted on a 3 x 5mm² (10AWG) cable							
	Controls	I x link switch, linking ar	nalog inputs 1 and 2; AES3/a	nalog input switch					
Construction									
Constituction	Dimensions	W 483 mm / 19", H 44.5 mm / 1 RU, D 475 mm / 18.7"							
Constituction		I mm / 0.04" steel chassis and removable dust cover; 3 mm / 0.12" steel front panel, screw hole protection, side							
construction	Chassis	I mm / 0.04" steel chase	sis and removable dust cove	r : 3 mm / 0 12'' steel	tront panel screw h	ole protection side			
Constituction	Chassis			r; 3 mm / 0.12" steel	front panel, screw h	ole protection, side			
construction	Chassis Weight	I mm / 0.04" steel chass reinforcement & rear su 12 kg (26.5 lb)		r; 3 mm / 0.12" steel	front panel, screw h	ole protection, side			

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K20 DSP+AESOP



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





☐ Installation

2CH











- Subwoofers
- ► High-power LF drivers
- ► Large-scale touring systems for
- Stadiums

in

- Open-air events
- Arenas
- Large concert halls

The **K20 DSP+AESOP** is the masterpiece of the flagship K Series. In addition to headroom in abundance even for the power-hungriest woofers, the most powerful member of the K Series comes preloaded with all options, making the **K20 DSP+AESOP** the ultimate powerhouse in every single aspect, yet packing it all into a single 19" rack unit weighing as little as 12 kg/26.5 lb

Possible only due to remarkably high efficiency exceeding 85%, the enormous power density paired with unique Powersoft technologies warrants top performance despite running off a single mains phase. Like all K Series models, the **K20 DSP+AESOP** is designed for, and absolutely stable with, 2Ω loads, further reducing the number of amps required to power a specific system.

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

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.

2-channel mode			mono-bridged mode		
2Ω / Ch	4 Ω / Ch	8 Ω / Ch	4 Ω / Ch pair	8 Ω / Ch pair	
9,000 W	5,200 W	2,700 W	18,000 W	10,400 W	

EIAJ Test Standard, I kHz, I% THD

✓ 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 12 kg/26.5 lb
- ► Green Audio Power®: more amplifier output power from the AC mains power distribution due to >85% efficiency

✓ Outstanding performance and operational safety:

- 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™
- ► LiveImpedanceTM 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™ 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:

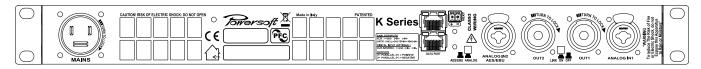
- ▶ Mono-bridgeable amplifier channels; switch for linking analog signal inputs
- ► AC inrush current limiting; channel output voltage limiting
- ▶ Digital gain attenuator for gain/sensitivity selection
- ✓ Front panel interactive LCD display for local access and configuration
- ✓ Front panel SmartCard 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



K20 DSP+AESOP



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



Specifications

General								
	Number of channels			2				
	Output power		stereo mode		mono-t	oridged mode		
	EIAJ Test Standard, I kHz, I% THD	2 Ω /ch	4 Ω/ch	8 Ω /ch	4 Ω	8 Ω		
		9,000 W	5,200 W	2,700 W	18,000 W	10,400 W		
	Max output voltage / current			225 V _{peak} / 125 A _{pe}	ak			
AC Mains Po	ower							
	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		@ 115 \	/		
	Idle	90 W	1.31 A		92 W	1.34 A		
	I/8 of max output power @ 4 Ω	1,625 W 7.9 A			1,625 W			
	I/4 of max output power @ 4 Ω	3,250 W	14.7 A		3,250 W	29.3 A		
Thermal		7,27			-,			
THEITHAI	Environmental operating temperature	0° - 45° C / 32° - 113° F						
	Thermal dissipation	E			ontrolled, front to rear air	flow		
	Idle	11	682 BTU/h	peed, temperature c	172 kcal			
					172 Kcal. 402 kcal.			
	I/8 of max output power @ 4 Ω		1,590 BTU/h					
	I/4 of max output power @ 4 Ω	2,498 BTU/h			631 kcal	/11		
Audio	6	07.10	20.15		22 10	25.15		
	Gain, selectable	26 dB	29 dB		32 dB	35 dB		
	Input Sensitivity @ 8 Ω	7.37 V	5.22 V		3.68 V	2.62 V		
	Max input level	27 dBu	24 dBu		21 dBu	18 dBu		
	Gate	-52 dBu	-55 dBu		-58 dBu	-61 dBu		
	Frequency response	20 Hz - 20 kHz (Ι W @ 8 Ω, ±0.5 dB)						
	S/N ratio (amplifier section)	>110 dBA (20 Hz - 20 kHz, A weighted)						
	Crosstalk separation	> 66 dB @ 1 kHz						
	Input Impedance	I0 k Ω balanced						
	THD+N/SMPTE IMD/DIM 100 IMD	<0.5% from 1 W to full power (typically <0.05%)						
	Slew rate		50 V/µ	us @ 8 Ω , input filter	bypassed			
	Damping factor @ 8 Ω			>5000 @ 20-200 H	łz			
DSP								
	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 Tande	m® architecture with 122 (dBA of dynamic range	and THD < 0.003% (20 Hz	z - 20 kHz)		
	Memory	8 MB (RAM) plus 2 MB	(flash for presets)					
	Presets	50 stored locally + 150 stored on a smartcard						
	Digital audio input	AES3 (glitchless fallback to analog audio selectable)						
	Delay for time alignment	up to 4 s on the input section, up to 32 ms per output, sample-by-sample stepping						
	Crossover filters	Butterworth, Linkwitz-Riley, Bessel, Arbitrary Asymmetric, 6dB/oct to 48dB/oct (IIR), linear phase (FIR), hybrid (FIR+IIR)						
	Output equalizer	16 fully parametric filters per channel, IIR: peaking, hi/lo shelving, hi/lo pass eq, band pass, band stop, all pass. Custom FIR u						
		to 384 taps @ 48 or 96 kHz						
	Input equalizer	Three layers (PEQ, raised cosine, shelving), 32 filters each + group filters, up to 256 filters per channel						
	Cable compensation network	up to 2 Ω negative/positive wire compensation (Active DampingControl TM)						
	Limiters	Power limiter (TruePower™, RMS voltage, RMS current) + Peak Limiter						
Front Panel								
	Indicators	7 meter LEDs: 5 x green, 1 x yellow, 1 x red, top yellow and red show alarm with protect description on LCD panel						
	Controls	4 pushbuttons, function depending on user menu						
	Power switch	Mains switch						
	Network data port AESOP incl. AES3	2 x RJ45 with activity LE	Ds					
	Maintenance			d preset storage. Fas	ily accessible dust filter fo	am behind two steel co		
Rear Panel			a. c opoates an		,			
I allel	Audio signal input connectors	Analog: 2 v halancod Noutrik@ Combo YI R famalo/I/4" inclu AEC2 uso channel 2 VI P						
	Loudspeaker output connectors	Analog: 2 x balanced Neutrik® Combo XLR female/I/4" jack; AES3: use channel 2 XLR 2 x Neutrik® Speakon NL4MD						
	Network data port Ethernet	2 x RJ45 with activity LEDs						
	Aux voltage	I x 2-pin Phoenix P. 3.81mm						
	AC mains	AMP CPC 45A on rear panel; AMP CPC 45A connector mounted on a 3 x 5mm² (10AWG) cable						
	Controls	1 x link switch, linking ar	alog inputs 1 and 2; AES3	/analog input switch				
Construction	n							
	Dimensions		mm / I RU, D 475 mm /					
	Chassis			ver ; 3 mm / 0.12" ste	el front panel, screw hole	protection, side		
		reinforcement & rear support						
	Weight	12 kg (26.5 lb)						

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K2 DSP+AESOP



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





☐ Installation

2CH











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

Capable of delivering 4,800 watts, the **K2 DSP+AESOP** is the smallest amplifier in the K Series, at least at first glance. One may wonder how 'small' almost 5,000 watts of output power are, but other than that this amplifier leaves no questions unanswered. Built on the same unique technologies and features present in the much bigger models, it is a full-fledged member of Powersoft's most advanced line.

The **K2 DSP+AESOP** can be software upgraded to become a K3 DSP+AESOP, making it a safe investment that grows with loudspeaker systems without the need for replacing the amp hardware. With much more behind the front panel than meets the eye, the unit still takes only a single space in a 19" rack and weighs only 8 kg/17.7 lb, all a result of efficiency exceeding 85%.

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, plus 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.

2-channel mode			mono-bridged mode		
$2 \Omega / Ch$	4 Ω / Ch	8 Ω / Ch	4 Ω / Ch pair	8 Ω / Ch pair	
2,400 W	1,950 W	1,000 W	4,800 W	3,900 W	

EIAJ Test Standard, I kHz, I% THD

✓ 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:

- 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[™] 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[™] 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

✓ Safe investment: Step-up program allows smooth upgrade to K3 DSP+AESOP

✓ 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
- ✓ SmartCard reader/writer for firmware updates, preset storage, and Step-up
- ✓ 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; step-up card
 - Armonía Pro Audio Suite, free at www.armoniasuite.com



K2 DSP+AESOP



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



Specifications

•								
General	Number of channels			2				
				2				
	Output power	2 Ω /ch	stereo mode 4 Ω/ch	8 Ω /ch	4 Ω	no-bridged mode 8 Ω		
	EIAJ Test Standard, I kHz, I% THD	2,400 W	4 12 /cn	8 12 /cn	4,800 W	3,900 W		
	May output valtage / gurrent	2,400 VV	1,750 VV	.,		3,700 VV		
	Max output voltage / current			140 V _{peak} / 102 A _{pe}	ak			
C Mains Po								
	Power supply		tch mode with PFC (Power	Factor Correction)				
	Operating voltage	100-240 V ±10%, 50/60						
	Power factor cos (φ)	>0.95 @ >500 W						
	Consumption / current draw		@ 230 V		@	115 V		
	Idle	88 W	1.35 A		69 W	1.2 A		
	I/8 of max output power @ 4 Ω	609 W	3.1 A		609 W	6.3 A		
	I/4 of max output power @ 4 Ω	1,219 W	5.7 A		1,219 W	11.4 A		
hermal								
	Environmental operating temperature	0° - 45° C / 32° - 113° F						
	Thermal dissipation	F	an, continuously variable sp	eed, temperature c	ontrolled, front to rea	r airflow		
	ldle		382 BTU/h			ccal/h		
	I/8 of max output power @ 4 Ω		722 BTU/h			kcal/h		
	I/4 of max output power @ 4 Ω		1,062 BTU/h			kcal/h		
Audio			.,		200			
	Gain, selectable	26 dB	29 dB		32 dB	35 dB		
	Input Sensitivity @ 8 Ω	4.48 V	3.17 V		2.47 V	1.59 V		
	Max input level	27 dBu	24 dBu		2.47 V 21 dBu	1.37 V 18 dBu		
	Gate	-52 dBu	-55 dBu		-58 dBu	-61 dBu		
		-32 dBu		20 1-11-71 147 @ 0.0		-01 UBU		
	Frequency response		20 Hz - 20 kHz (I W @ 8 Q, ±0.5 dB)					
	S/N ratio (amplifier section)	>106 dBA (20 Hz - 20 kHz, A weighted) > 70 dB @ 1 kHz						
	Crosstalk separation	≥ 70 db @ 1 km2 10 kΩ balanced						
	Input Impedance		-0.207.5					
	THD+N/SMPTE IMD/DIM 100 IMD			,	power (typically <0.05%)			
	Slew rate		50 V/µs	s @ 8 Ω, input filter				
SCD.	Damping factor @ 8 Ω			>5000 @ 20-200 H	1Z			
OSP	A /D	Dual 24bit 96 kHz Tandem® architecture with 127 dBA of dynamic range and THD <0.005% (20 Hz - 20 kHz)						
	A/D converter			·				
	D/A converter	Dual 24bit 96 kHz Tandem® architecture with 122 dBA of dynamic range and THD <0.003% (20 Hz - 20 kHz)						
	Memory		8 MB (RAM) plus 2 MB (flash for presets)					
	Presets	50 stored locally + 150 stored on a smartcard						
	Digital audio input	AES3 (glitchless fallback	to analog audio selectable)					
	Delay for time alignment	up to 4 s on the input se	ection, up to 32 ms per out	put, sample-by-samp	ple stepping			
	Crossover filters	Butterworth, Linkwitz-F	Butterworth, Linkwitz-Riley, Bessel, Arbitrary Asymmetric, 6dB/oct to 48dB/oct (IIR), linear phase (FIR), hybrid (FIR+IIR) 16 fully parametric filters per channel, IIR: peaking, hi/lo shelving, hi/lo pass eq, band pass, band stop, all pass. Custom FIR up					
	Output equalizer			hi/lo shelving, hi/lo բ	oass eq, band pass, bar	nd stop, all pass. Custom FIR		
		to 384 taps @ 48 or 96						
	Input equalizer		d cosine, shelving), 32 filter			er channel		
	Cable compensation network	up to 2 Ω negative/positive wire compensation (Active DampingControl™)						
	Limiters	Power limiter (TruePower™, RMS voltage, RMS current) + Peak Limiter						
ront Panel								
	Indicators	7 meter LEDs: $5 \times$ green, $1 \times$ yellow, $1 \times$ red, top yellow and red show alarm with protect description on LCD panel						
	Controls	4 pushbuttons, function depending on user menu; mains switch						
	Network data port AESOP incl. AES3	2 × RJ45 with activity LEDs						
	Maintenance	SmartCard reader/writer for firmware updates and preset storage. Easily accessible dust filter foam behind two steel cover						
Rear Panel								
	Audio signal input connectors	Analog: 2 x balanced Ne	eutrik® XLR female: AES3:	use channel 2 XLR				
	Audio signal output connectors	Analog: 2 x balanced Neutrik® XLR female; AES3: use channel 2 XLR Analog: 2 x balanced Neutrik® XLR male						
	Loudspeaker output connectors	2 x Neutrik® Speakon NL4MD						
	Network data port Ethernet	2 x RJ45 with activity LEDs						
	Aux voltage	I x 2-pin Phoenix P. 3.81mm						
	AC mains	IEC20A with IEC20A Schuko for EU, IEC20A/American 15 A pin plug						
		I x link switch, linking analog inputs 1 and 2; AES3/analog input switch						
	Controls	1 × link switch, linking ar	naiog inputs 1 and 2; AES3/a	analog input switch				
Construction		14/402	/	EII				
	Dimensions	W 483 mm / 19", H 44.5 mm / 1 RU, D 380 mm / 15"						
	Chassis	I mm / 0.04" steel chassis and removable dust cover ; 3 mm / 0.12" steel front panel, screw hole protection, side reinforcement & rear support						
		remortement & rear su	ppoi t					
	Weight	8 kg (17.7 lb)						

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