Technische Daten, Seite 1

Inputs		tuner	runer output, before tone controls and
channel one,	High impedance, unbalanced instrument or		effects, not affected by mute
channel four	line inputs		Mono jack, ¼" (6.35 mm)
	Mono jack socket 1/4" (6 35 mm)		Output voltage: 330 mV (–10 dBV)
	Min_input voltage: 21 mV (24 dBV)		Output impedance: 47 Ω
	Max input voltage: 4 \/ (+12 dP\/)		Min. load impedance: 2 kΩ
	Wax. Input Voltage. 4 V (+12 UBV)	Lout Pout	Stereo line output after tone controls
	Input impedance: 2.2 MΩ 150 pF	L-Out, N-Out	stereo inte output after tone controls,
	Equivalent input noise voltage (A-weighted):		adjustable by pre master, with switchable
	1.7 μV (–115 dBV)		stereo simulation, aux in, and effects
	Attenuator switch: -10 dB		2 mono jack sockets, ¼" (6.35 mm), L / R
	Phantom power: Optional see notes		Output voltage: 01 V (0 dBV),
	alia indicator		adjustable by pre master
	clip indicator		Output impedance: max 15 kO
	Headroom: min. 6 dB		(varies with level setting)
channel	Switchable line / microphone inputs		(varies with level setting)
two,	Combo socket, XLR + jack ¼" (6.35 mm)		Min. load impedance: 2 kΩ
channel	line mode (via jack input only)		Residual noise (A-weighted):
three	High impedance, unbalanced instrument or		< 1 µV (–120 dBV)
	line input	line out	Mono line output after master, with aux in
	Internput		and effects and after insert
	IVIIN. Input Voltage: 25 mV (–32 dBV)		Mono jack 1//" (6.25 mm)
	Max. input voltage: 2.8 V (+8 dBV)		
	Input impedance: 1 MΩ 200 pF		Output voltage: 460 mv (–7 dBv)
	Equivalent input noise voltage (A-weighted):		Output impedance: 100 Ω (but depends on
	2.6 µV (–112 dBV)		external device if insert is also used)
	mismode		Min, load impedance: 2 kΩ
			Residual noise (A-weighted):
	wicrophone input, XLR (balanced), stereo		4 5 uV (-107 dBV)
	jack (balanced), or mono jack (unbalanced)	DI sut	4.5 µV (=107 dBV)
	1 / sleeve = ground,	DI-out	Balanced, non-isolated XLR output, before
	2 / tip = positive (+),		tone controls, with aux in, without effects
	3 / ring = negative (-)		1 = ground,
	Min_input voltage: 2 mV (-55 dBV)		2 = positive (+),
	Max impat voltage: 2 mV (35 dbV)		3 = negative (-)
	Max. Input Voltage. 250 IIIV (-12 UBV)		Output voltage (differential):
	Input impedance (balanced): 1.1 kΩ		68 m// (22 dP//)
	Input impedance (unbalanced): 4 kΩ		00 IIIV (-25 UBV)
	Voice filter:		Output impedance: 100 Ω , each terminal to
	–10 dB at 270 Hz referred to 10 kHz		ground
	Equivalent input noise voltage (A-weighted):		Min. load impedance (differential): 1 kΩ
	2.4 uV (-112 dRV)	ext. effect	Output for external parallel effect loop.
	Phantom nowor: 49 V VIP only switchable	send	before master after tone controls
	Filantoni power. 46 V, ALK only, switchable,		Independent on cond controls (see notes)
	$R = 6.8 \text{ k}\Omega$ per terminal, max. 10 mA per		Maga includent of series (see notes)
	input, short-circuit protected.		Woho Jack, % (6.35 mm)
	clip indicator		Output voltage: 1 V (0 dBV)
	Headroom: min. 6 dB		Min. load impedance: 2 kΩ
aux in	Auxiliary stereo input e.g. for CD player	Insert conn	ector
aux m	Cinch (RCA) sockets 1 / R	incort	Connector for serial insert loop, after marter
		il isel t	connector for senarinsert toop, after master
	Level adjustable by aux return		but before line out.
	Min. input voltage: 125 mV (–18 dBV)		Interrupts the direct signal path when used.
	Max. input voltage: 10 V (+20 dBV)		Stereo jack, ¼" (6.35 mm),
	Input impedance: min. 3.7 kΩ		tip = send, ring = return
	(varies with level setting)		Output and input voltage: 460 mV (-7 dBV)
ext effect	Input from external parallel effect loop or		Output impedance (send): 47 ()
EAL ETIELL	input nom external paranet enect loop, of		Min land impedance (send), 47 32
return	supplementary input		win. load impedance (send): 2 ks2
	Wono Jack, 1/4" (6.35 mm)		Input impedance (return): 22 kΩ (but
	Level adjustable by effect 2 return		depends on external device if line out is
	Min. input voltage: 410 mV (–9 dBV)		also used)
	Max, input voltage: 10 V (+20 dBV)	Footswitch	connectors
	Input impedance: min_8 kO	FOOLSWITCH	connectors
	(varies with level and footswitch cetting)	footswitch	Connector for a dual footwitch
	(varies with level and footswitch setting)	effect int/ext	Stereo jack, ¼" (6.35 mm)
Outputs			Tip = internal effect on/off
rec out	Stereo line output		Ring = external effect on/off
	Cinch (RCA) sockets. L / R		Sleeve = common (ground)
	For more specs see Lout P-out		Function: Switch ON = offect muted
haada haasa	Change bandebange state	A	runction. Switch ON = effect muted
neadphones	stereo neadphones output	tootswitch	Connectors for dual footwitches
	Stereo jack socket, ¼" (6.35 mm)	mute ch 1/2,	Stereo jack, ¼" (6.35 mm)
	When plugged in, internal speakers are	footswitch	Tip = muting ch. 1 (3)
	muted.	mute ch 3/4	Ring = muting ch. 2 (4)
	Output power at rated conditions:		Sleeve = common (ground)
	2 x 24 mW/ / 22 ()		Eurotion: Switch ON = channel muted
			When alward in the appreciation rest-
	iviax. output power: 2 x 160 mW / 16 Ω		when plugged in, the respective mute
	Min. load impedance: 8 Ω		buttons of the amp are disabled.
	Caution: Suitable for stereo headphones		
	only. Connecting a mono iack or		
	connecting to other devices may cause		
	connecting to other actives may cause		
	malfunction or damage		



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Tone controls				
Note: Channels 3 and 4 share the same tone controls.				
All channels	colour -3 dB at 700 Hz			
	+10 dB at 8 kHz			
	bass ±8 dB at 100 Hz (shelf type)			
	middle ±6 dB at 800 Hz			
	treble ±8 dB at 10 kHz (shelf type)			
Effects				
Built-in	Digital effect processor with 16 presets.			
effect	Contribution from channels 1, 2, and 3+4 is			
	adjustable by send controls.			
External	See ext. effect send, ext. effect return,			
effects	and insert			
Stereo	Switchable, effective on L-/R-out and rec out			
simulator	but not headphones			
Power				
Power amp	2 x 60 W / 4 Ω (1% THD)			
	DMOS, monolithic I.C.			
	Dynamic range (A-weighted): 93 dB			
Limiter	2 x 50 W / 4 Ω			
threshold				
Mains power	Mains voltage (depending on model):			
	100, 120, 230, or 240 V AC, 50–60 Hz			
	Power consumption: max. 250 W			
Mains fuse	Size: 5 x 20 mm			
	For 230 and 240 V models: T 1.6 A L / 250 V			
	For 100 and 120 V models: T 3.15 A L / 250 V			
General				
Distortion	THD+N < 0.1% at 2 x 6 W / 4 Ω			
Analog signal	Subsonic filter, adaptive peak limiter			
processing				
Speaker	Two 8" (200 mm) dual cone full-range			
system	speakers,			
	1" (25 mm) neodymium dome tweeter,			
	bass reflex enclosure			
Cabinet	12 mm (0.47") birch plywood			
Finish	Waterbased acrylic, black spatter finish			
Dimensions	360 mm (14.2") high			
	415 mm (16.3") wide			
	290 mm (11.4") deep			
Weight	12.8 kg (28.2 lbs)			

NOTES

Rated conditions:

- Input 50 mV rms / 1 kHz at **channel one.** Gain of channel one fully clockwise. All tone controls in center position, **colour** off. Master adjusted such that the rated output power (limiter disabled) or, alternatively, the rated output voltage at **line out** is obtained. Output voltages refer to rated conditions as stated above.
- Min. input voltage: Input voltage required for rated output
- power (limiter disabled) with **gain** and **master** fully clockwise
- Max. input voltage: Input voltage that does not cause more than 1% THD+N, suitable control settings provided
- THD+N: Total harmonic distortion + noise at input and output levels 10 dB below rated conditions.
- Equivalent input noise voltage: Noise voltage at speaker output divided by gain of amplifier. gain of input under test fully clockwise, **master** fully clockwise, gain of unused inputs minmal. Input shorted, B = 22 Hz ... 22 kHz
- Residual noise: Noise of an output when its level control is set to minimum.

Dynamic range (power amp): Ratio of rated output voltage to residual noise voltage with master fully anticlockwise.

Options: The following options are available by internal jumper settings.

 Channels 1 and 4 can have 15 V phantom power enabled at "ring" of jack socket. *Caution: This option is* not overload-protected. Improper use may cause malfunction or damage.

2) Gain of channels 2 and 3 can be reduced by 3 dB to allow for more headroom.

3) **Ext. effect send** level can be made dependent on the **send** controls of each channel.

4) Internal effect can be disabled for each channel.

5) Aux input signal can be disconnected from DI out.

6) Internal effect can be added to DI out.

Specifications and appearance subject to change without notice.

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