

6. Technical specifications Compact Mobile2 – page 1

| Inputs | |
|-------------------------|--|
| channel 1 | <p>High impedance, unbalanced instrument or line input Mono jack socket, ¼" (6.35 mm) Min. input voltage: 22 mV (-33 dBV) Max. input voltage: 5 V (+14 dBV) Input impedance: 2.2 MΩ 350 pF Equivalent input noise voltage (A-weighted): 1.5 μV (-117 dBV)</p> <p>High/low (attenuator) switch: -10 dB Phantom power: Optional (see notes), 9 V DC / max. 100 mA, on ring of input jack, short circuit protected</p> <p>clip indicator Headroom: min. 6 dB</p> |
| channel 2 | <p>Switchable line / microphone input Combo socket, XLR + jack ¼" (6.35 mm)</p> <p>line mode (via jack input only) High impedance, unbalanced instrument or line input Min. input voltage: 27 mV (-31 dBV) Max. input voltage: 7 V (+17 dBV) Input impedance: 2.2 MΩ 350 pF Equivalent input noise voltage (A-weighted): 2.4 μV (-113 dBV)</p> <p>mic mode Microphone input, XLR (balanced), stereo jack (balanced), or mono jack (unbalanced) 1 / sleeve = ground, 2 / tip = positive (+), 3 / ring = negative (-) Min. input voltage: 3.3 mV (-50 dBV) with low-gain option: 5.8 mV (-45 dBV) Max. input voltage: 1 V (0 dBV) with low-gain option: 1.8 V (+5 dBV) (see notes) Input impedance (balanced): 1.2 kΩ Input impedance (unbalanced): 2.7 kΩ Voice filter: -10 dB at 270 Hz referred to 10 kHz Equivalent input noise voltage (A-weighted): 0.9 μV (-121 dBV) Phantom power: XLR only, 48 V, switchable, R = 6.8 kΩ per terminal, max. 10 mA total, short-circuit protected</p> <p>clip indicator Headroom: min. 6 dB</p> |
| aux in | <p>Auxiliary stereo input, e.g. for CD player Cinch (RCA) sockets, L / R Level adjustable by aux level Min. input voltage: 100 mV (-20 dBV) Max. input voltage: 3.5 V (+11 dBV) Input impedance: 22 kΩ</p> |
| return | <p>Input from external parallel effect loop, or supplementary input Mono jack, ¼" (6.35 mm) Min. input voltage: 320 mV (-10 dBV) Max. input voltage: 5 V (+14 dBV) Input impedance: 20 kΩ (but 5 kΩ while external effect is switched OFF by footswitch)</p> |
| Outputs | |
| line out | <p>Line output after master, with aux in and effects Mono jack, ¼" (6.35 mm) Output voltage: 700 mV (-3 dBV) Output impedance: 100 Ω Min. load impedance: 2 kΩ Residual noise (A-weighted): 4.5 μV (-107 dBV)</p> |
| headphones | <p>Headphones output Stereo jack socket, ¼" (6.35 mm), L/R connected When plugged in, internal speaker is muted. Output power at rated conditions: 2 x 8 mW / 32 Ω Max. output power: 2 x 100 mW / 1000 Ω Output impedance: 470 Ω (common for L/R) Min. load impedance: not limited Note: Suitable for stereo headphones with stereo jack only. Not functional with mono jacks.</p> |
| send | <p>Output for external parallel effect loop, before master, after tone controls Mono jack, ¼" (6.35 mm) Output voltage (efx pan fully clockwise): 900 mV (-1 dBV) Output impedance: 47 Ω Min. load impedance: 2 kΩ</p> |
| tuner | <p>Tuner output, after tone controls, before effects and master Mono jack, ¼" (6.35 mm) Output voltage: 225 mV (-13 dBV) Output impedance: 47 Ω Min. load impedance: 2 kΩ</p> |
| DI-out | <p>Balanced, non-isolated XLR output, after tone controls, without aux in and effects 1 = ground, 2 = positive (+), 3 = negative (-) Output voltage (differential): 93 mV (-21 dBV) Output impedance: 47 Ω, each terminal to ground Min. load impedance (differential): 1 kΩ</p> |
| Footswitch connector | |
| footswitch | <p>Connector for a dual footswitch Stereo jack, ¼" (6.35 mm) Tip = internal effect on/off Ring = external effect on/off Sleeve = common (ground) Function: Switch ON = effect OFF</p> |
| Tone controls | |
| Channel 1 | <p>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)</p> |
| Channel 2 | <p>bass +8 dB at 100 Hz (shelf type) treble +11 dB at 10 kHz (shelf type)</p> |
| Effects | |
| Internal effects | <p>Digital effect processor</p> <ol style="list-style-type: none"> 1 Reverb (short predelay) 2 Reverb (long predelay) 3 Delay (320ms, repetitive) 4 Chorus |
| External effects | <p>Parallel effect loop, see send and return</p> |
| efx pan | <p>Blends both internal and external effects between channels 1 and 2, with reverse direction of rotation for the external effects.</p> |

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| Power | |
|---------------------------------|--|
| Power amp | 60 W / 4 Ω (1% THD) Monolithic IC with DMOS output Dynamic range (A-weighted): 94 dB |
| Mains power | Mains voltage (depending on model): 100, 120, 230, or 240 V AC, 50–60 Hz Power consumption: max. 240 W Power consumption (only charging): 45 W |
| Mains fuse | Size: 5 x 20 mm Rating: For 230 and 240 V models: T 1 A L / 250 V For 100 and 120 V models: T 2 A L / 250 V |
| Internal battery | Type and rating 2 rechargeable sealed lead-acid batteries, each 6 V / 12 Ah Operating time ca. 3 – 4 h depending on volume Recharge time 100% full charge: ca. 16 h 90% full charge: ca. 12 h Without output load. Important <i>Charge batteries soon when empty. Never store with empty batteries! Recharge once a year when not in use.</i> The power switch must be ON in order to charge the battery. |
| 12 V DC connector | Input for operating the Compact mobile from an external 12 V battery Max. current consumption: 10 A 1 = minus (-) 2 = plus (+) Note: <i>This input can not be used to charge the external battery from the Compact mobile or to charge the internal battery from an external power source.</i> |
| General | |
| Distortion | THD + N < 0.1% at 6 W / 4 Ω |
| Analog signal processing | Subsonic filter, adaptive peak limiter |
| Limiter threshold | 50 W / 4 Ω |
| Speaker system | 8" (200 mm) dual cone full-range speaker, bass reflex enclosure |
| Cabinet | 12 mm (0.47") birch plywood |
| Finish | Waterbased acrylic, black spatter finish |
| Dimensions and weight | |
| Dimensions | 320 mm (12.8") high 326 mm (12.9") wide 282 mm (11.1") deep |
| Weight | 13 kg (28.7 lbs) |

NOTES

Rated conditions:

Nominal input voltage: 50 mV at input of channel 1.
Test signal: 1 kHz sine unless stated otherwise.
Signal voltages stated as RMS values.
0 dBV corresponds to 1 V RMS.

Gain of channel under test fully clockwise.

Tone controls in center position, **colour** off.

Master adjusted such that the rated output power is obtained (requires that the limiter is disabled).

To avoid having to disable the limiter, **master** can be adjusted such that the rated output voltage at **line out** is obtained instead.

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, with 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 minimal. 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 (**master** fully anticlockwise).

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

1) Gain of microphone input can be reduced, resulting in more headroom.

2) 9 V phantom power for channel 1 can be activated.

Caution: *Install only if required. Phantom power may damage external equipment. Read the operating instructions.*

Specifications and appearance subject to change without notice.

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