

# Technical Specifications: pocket tools colourizer

## Input

|              |   |
|--------------|---|
| <b>input</b> | <p>Switchable microphone or line input<br/>           Combo socket, XLR and ¼" jack (6.35 mm)</p> <p><b>line mode (jack input)</b><br/>           Unbalanced high impedance input for instrument pick-ups and line-level sources<br/>           Gain adjustment range: +3...+20 dB<br/>           Min. input voltage: 100 mV (-20 dBV)<br/>           Max. input voltage: 3 V (+10 dBV)<br/>           Input impedance: 2.2 MΩ    150 pF<br/>           Signal-to-noise ratio (A-weighted)<br/>           Min. gain: 104 dB<br/>           Max. gain: 98 dB<br/>           Frequency response: 20 Hz...20 kHz / ±1 dB<br/>           THD + N (1 kHz): &lt; 0.3%<br/>           Phantom power: Ring contact of <b>line out</b> is connected to ring contact of <b>input</b>. Any external phantom power applied at the ring of <b>line out</b> will be available at the input.</p> <p><b>mic mode (XLR input)</b><br/>           Balanced microphone input<br/>           1 = ground, 2 = positive (+), 3 = negative (-)<br/>           Gain adjustment range: +4...+40 dB<br/>           Min. input voltage: 10 mV (-40 dBV)<br/>           Max. input voltage: 3 V (+10 dBV)<br/>           Input impedance: 2.1 kΩ<br/>           Unbalanced: 1.1 kΩ<br/>           Signal-to-noise ratio (A-weighted):<br/>           Min. gain: 104 dB<br/>           Max. gain: 95 dB<br/>           Frequency response: 20 Hz...20 kHz / ±1 dB<br/>           THD + N (1 kHz): &lt; 0.1%<br/>           Phantom power: 24 V, R = 1.2 kΩ per terminal, switchable, total current max. 10 mA, short circuit protected<br/> <u>Warning:</u> External equipment may be damaged by inappropriate use of phantom power. In case of doubt keep the <b>24 V phantom power</b> switch off (not pushed).</p> <p><b>Clip indicator</b><br/>           Red LED<br/>           Headroom: 12 dB</p> |
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## Outputs

|                 |   |
|-----------------|---|
| <b>line out</b> | <p>Unbalanced line output after <b>master</b><br/>           Mono jack, ¼" (6.35 mm)<br/>           Nominal output voltage: 1 V (0 dBV)<br/>           Max. output voltage: 9 V (+19 dBV)<br/>           Output impedance: 47 Ω<br/>           Min. load impedance: 2 kΩ<br/>           Residual noise (<b>master</b> fully anticlockwise):<br/>           A-weighted: 1.2 µV (-118 dBV)</p>  |
| <b>DI-out</b>   | <p>Balanced XLR output<br/>           1 = ground, 2 = positive (+), 3 = negative (-)<br/>           Level control<br/>           Nominal output voltage (differential), adjustment range:<br/>           41...410 mV (-28...-8 dBV)<br/>           Output impedance:<br/>           47 Ω each terminal to ground<br/>           Min. load impedance (differential): 1 kΩ<br/>           Residual noise (both channels in line mode):<br/>           A-weighted: 2.3 µV (-113 dBV)</p> |

## Tone controls

|                             |  |
|-----------------------------|--|
| <b>Tone</b>                 | <p>Flat if <b>intensity</b> is set fully anticlockwise. The following values apply if <b>intensity</b> is set fully clockwise:<br/> <b>balance</b> left:<br/>           +9 dB at 100 Hz, shelf type<br/> <b>balance</b> center:<br/>           +7 dB at 100 Hz, and<br/>           +12 dB at 10 kHz, shelf type<br/> <b>balance</b> right:<br/>           -1 dB at 50 Hz<br/>           +12 dB at 10 kHz, shelf type</p> |
| <b>Enhancer</b>             | <p>Enhancer <b>intensity</b> fully clockwise, 1 V RMS at <b>line out</b>:<br/>           Frequency response: +3 dB at 10 kHz<br/>           Harmonic distortion: THD ≈ 10% at 1 kHz</p>  |
| <b>Parametric equalizer</b> | <p>Adjustable band boost / cut (bell curve) filter<br/>           Frequency range:<br/>           90 Hz...1.6 kHz / 680 Hz...11 kHz (switchable)<br/>           Gain range: ±15 dB at center frequency of filter<br/>           Bandwidth range: 0.4 – 2.2 octaves<br/>           ("half-dB" method, measured between +7.5 dB points with <b>level</b> set to +15 dB)</p>  |
| <b>Power</b>                |  |
| <b>Supply voltage</b>       | 24 V=, 0.2 A   |
| <b>Mains adapter</b>        | <p>Mains voltage: 100-240 V-<br/>           Power consumption when used with Colourizer: max. 10 W</p>   |
| <b>General</b>              |  |
| <b>Metal housing</b>        | Aluminium  |
| <b>Finish</b>               | Anodized black   |
| <b>Dimensions</b>           | 65 mm (2.56") high<br>105 mm (4.13") wide<br>135 mm (5.31") deep   |
| <b>Weight</b>               | 480 g (1.06 lbs)   |

## Definitions and conditions

- Input and output voltages** are RMS values for a sine signal and 1 kHz unless stated otherwise.
- Tone controls** in neutral position (equalizer level in center position, tone intensity and enhancer intensity fully anticlockwise) unless stated otherwise.
- Min. input voltage:** Input voltage for nominal output voltage at line out with gain and volume fully clockwise.
- Max. input voltage:** Permissible input voltage that does not cause distortion more than the rated THD + N (assuming suitable control settings).
- Signal-to-noise ratio (SNR):** Ratio of nominal output voltage to noise voltage at line out, at specified gain setting, master fully clockwise, input shorted, 20 Hz...20 kHz.
- Note:** SNR is specified for each channel depending on its control settings. The SNR found at line out may be less than the specified SNRs of the channels because both channels contribute to the output noise.
- Residual noise:** Noise voltage at an output when all gain and level settings are minimal.
- THD + N:** Total harmonic distortion + noise for nominal output voltage at line out

Specifications and appearance subject to change without notice.

