



MANULTEC

SMART AUDIO CONTROLS

WARNING: High Voltage – Risk of electric shock

Do not open chassis. Check if the right voltage (120V/240V) is selected before connecting the MT-E.8012 ORCA BAY to the main power supply.

If the device is damaged or does not work as expected, refer to qualified service staff only. Never use damaged power chords. Replace fuse with the same type and value only: 0,5A (120V); 0,25A (240V) Insure yourself that the MT-E.8012 ORCA BAY is connected via grounded junction. Hold the device off splash water, moisture and other liquids. Do not use the MT-E.8012 ORCA BAY in the near of water or in wet surroundings.

CAUTION: Temperature – Chassis may become hot during operation

Do not install any heat sources (for instance radiators or stoves) close to the device. Avoid direct solar irradiation. Do not block the circulation vents.

Warm air has to draw off. Let enough free rack-space around the unit to avoid overheating. Do not install power amps near the device.

WARNING: Incorrect installation – Connection may cause damage

Do not connect power amp-outputs to the MT-E.8012 ORCA BAY.

Install the device on solid components only or mount it proper into a adequate rack, as found in professional studio environments.

WARNING: Condensed water (liquid) may cause damage

Condensed water inside the device may occur, when you move the device from a cold place to a warm room. To avoid damaging the MT-E.8012 ORCA BAY always wait until the device has reached room temperature before switching it on.

MT-E.8012

ORCA BAY

The MT-E.8012 ORCA BAY is the new flagship analog hardware equalizer from MANULTEC - Smart Audio Controls. The unit stands out with unique sonic character only met by its exquisite beauty. It takes the knowledge and research we cultivated in the last years to the next level, by re-examining every detail to enhance sound and feel. MANULTEC 's sophisticated circuit provides ultra tight low end and vibrant dynamic projection to highlight the distinct sound of the ORCA. The minimal, yet beautiful design offers a timeless appearance and makes this equalizer an absolute joy to use.



FEATURES

- Powerful stereo solid state equalizer with all passive tone sculpting circuit
- Manufactured with premium selected components
- Ease of operation through clearly arranged interface design
- Antique bakelite knobs for comfortable handling
- Optional stepped ATTEN and FOCUS controls available
- Subbass meter "DUBBY's Lämple" indicating low frequency content

COMPONENTS

- Transformer balanced in- and outputs
- Hand-wound inductors for high boost
- Discrete opamp make-up gain powers the output transformers
- To handle high levels without overloading, the Gain control in 1/2 dB steps is placed before the output amplifier
- Strictly handwired with VOVOX sound conductors (purum certified)
- Hand-crafted in MANULTEC 's boutique custom shop in Germany

FUNCTIONS (from left to right)

- LAMP Subbass meter “DUBBY’s Lämpel” indicating low frequency content
- LOW low boost (shelf), stepped, + 14 db - 80 Hz / 100 Hz
- ATTEN low cut (shelf), - 14 db - 150 Hz / 330 Hz
- FOCUS Bandwidth control, high boost (bell)
- HIGH high boost (bell), stepped, switchable 3 KHz / 12 kHz
+ 11 db (FOCUS: 0) / + 21 db (FOCUS: 10)
- IN True Bypass, hardwired (switch out)
- LOWER Frequency selector LOW 80 Hz / ATTEN 150 Hz (switch in)
LOW 100 Hz / ATTEN 330 Hz (switch out)
- HIGHER Frequency selector HIGH 12 kHz (switch in) / 3 kHz (switch out)
- GAIN + 3 dB, - 8 dB (half dB steps)

TECHNICAL SPECIFICATIONS

- Input Impedance: > 12 k Ω (transformer balanced with current booster)
- Input-/Output transformer balanced
- Input Level (max): + 27 dBu (1% THD)
- Output Level (max): + 29,5 dBu (1% THD)
- Noise: -87 dBu (IEC-A, GAIN position @ +3 dB)
- Dynamic Range: 114 dB (GAIN position @ +3 dB)
- Frequency Response: 6 Hz - 70 kHz (0/-1 dB) / 20 Hz - 20 KHz (+/-0,2 dB)
- Mains Voltage: 120V or 240V
- Dimensions (W x H x D): 483 x 133 x 147 mm (19” / 3U)
- Weight: 4,2 kg

ABOUT MANULTEC

Always striving for something special, the MANULTEC brand was founded by Manu Schlindwein and Phil Kullmann in Cologne, Germany, 2015.

Based on our experience „if you can't find what you need, you have to build it yourself“, we decided to put pen to paper and design something new.

We are musicians, audio engineers, designers and adventurers who create tools that reflect our values. We are committed to premium materials only and clear attention to detail, embedded in a minimalistic design aesthetic by Daniel F. Hirth.

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