

# OYSTER CONTROLLER

## Datasheet



Oyster is an compact DSP designed for fixed install use. It's simple front panel design shows power, signal and peak levels, but that is all. Programming and adjustment is done via USB socket only allowing system engineers to set-and-forget.

The unit offers 2 input and 6 output channels all via XLR socket. Mains input voltage is 85 -265 VAC. 50-60 Hz allowing for global use. USB input is via a Type B socket. Frequency response is 20 Hz to 20 kHz ( $\pm 3$  db), output gain is selectable between -50 dB and +12 dB. Weight is only 1.5 kg.

# Technical Specifications

| HARDWARE                   |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| Inputs                     | 2 analogue (electrically balanced)                                       |
| Outputs                    | 6 analogue (impedance balanced)                                          |
| Input Impedance            | 10 k $\Omega$ unbalanced / 18 k $\Omega$ balanced                        |
| CMMR                       | >50 dB 30 Hz – 20 kHz                                                    |
| Output Impedance           | 50 $\Omega$ unbalanced / 100 $\Omega$ balanced                           |
| Maximum input voltage      | 20 dBu peak (7.7 Volts)                                                  |
| Maximum output voltage     | 12 dBu peak (3.1 Volts)                                                  |
| GENERAL DSP FUNCTIONS      |                                                                          |
| Adjustable delay           | Up to 1 second per each input and output channel (up to 2 seconds total) |
| Delay step                 | 1 $\mu$ s                                                                |
| Channel gain               | -48 to +12 dB per input and output channel                               |
| Routing matrix gain        | -48 to +12 dB                                                            |
| FILTERS                    |                                                                          |
| Parametric EQ filters      | Up to 10 per each input and output channel                               |
| Parametric EQ filter types | Bell, high/low shelf, high/low pass, notch, all pass                     |
| Crossover filter slopes    | 6, 12, 24 and 48 dB per octave                                           |
| Crossover filter types     | Bessel, Butterworth and Linkwitz-Riley                                   |
| DYNAMICS PROCESSING        |                                                                          |
| Zero-attack peak limiters  | 1 per output channel (end of the signal chain)                           |
| Limiter threshold          | -48 to +12 dBu peak                                                      |
| CONNECTORS                 |                                                                          |
| Inputs                     | 3-pin female XLR                                                         |
| Outputs                    | 3-pin male XLR                                                           |
| Power                      | 3-pin IEC                                                                |
| USB                        | USB type B female                                                        |
| GENERAL INFORMATION        |                                                                          |
| Mains                      | 85-265 Volts AC, 50-60 Hz                                                |
| Consumption                | < 10 Watts                                                               |
| Dimensions (h x w x d)     | 44 mm x 482 mm x 128 mm                                                  |
| Weight                     | 1.44 kg (unpackaged) 3Kg (packaged)                                      |
| Fuse                       | T500 mA L250 V                                                           |

## Important Safety Instructions

**WARNING:** Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

**WARNING:** To prevent injury, this apparatus must be securely attached to the rack in accordance with the installation instructions.

### Precautions:

- Do not stand the unit vertically on its rear.
- Always check the correctly rated power is supplied with your unit.
- Avoid direct contact of your **OYSTER** with water or other liquids.
- When cleaning the unit, wipe with a soft, dry cloth. If more heavy duty cleaning is required, disconnect from the mains and use a damp cloth ensuring the unit is completely dry before reconnecting to the mains.
- Do not use solvents or chemicals on the exterior of the unit as they may cause the surface to discolour or peel.
- Do not use if the power cord is frayed or broken.
- If you experience continuous problems, disconnect from the mains and refer to a qualified service engineer.
- This unit is only intended for qualified personnel to operate and install. Do not attempt to repair or service yourself. Please refer to qualified technical service department. The user must have sufficient electrical contact to earth. Electrostatic charges may affect the operation of the **OYSTER**.

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