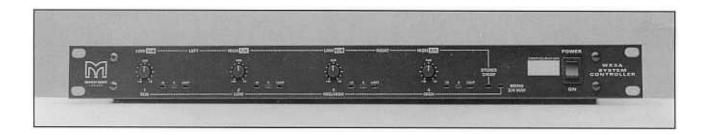


### WAVEFRONTSERIES

# WX3A



#### **FEATURES**

Dedicated Wavefront Series controller

2-way stereo or 3/4 way mono operation

Plug in Wavefront system-specific card

Advanced limiter design

Level controls and limiters on each band

19" 1U standard rackmount

#### **APPLICATIONS**

Control of Wavefront Series loudspeakers

The WX3A is an extremely versatile electronic controller designed to maximise the performance of Wavefront Series loudspeaker systems in their various modes of operation. Crossover frequencies, relative output levels, phase adjustment, group delay and equalisation are all pre-set for a given Wavefront system by a system-specific plug-in board.

It can be configured either as a two-way stereo or 3/4-way mono device depending on the Wavefront system in use and the application. As a two-channel device loaded with the appropriate plug-in board, it can provide either full-range and sub-bass outputs for the W1 and passive W2 or low and high outputs for the active W2 and W3. As a mono device it can provide sub-bass, low and high for the active W2 and W3 when used with sub-woofers.

Fast attack limiters in each band can be set to prevent amplifier clipping - limiter threshold being set by an internal rotary switch which is adjustable to suit any amplifier sensitivity. The WX3A does not require external amplifier sensing for limiter operation and so can be positioned near the mixer rather than in the amplifier rack.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The electronic system controller shall operate as a stereo 2-way or mono 3/4 way device containing crossover, equalisation, and limiter circuitry. Crossover frequencies, equalisation and delay parameters shall be set by a plug-in board dedicated to the loudspeaker system under control. All inputs and outputs shall be electronically balanced. Facilities for each band shall include -infinity to +6dB level control and signal present, limit threshold and limit LED indicators.

The power supply shall be capable of operating from a 100/120/220/240 volts 50/60Hz AC mains power source. Signal + noise/noise ratio >97dB 20Hz-20kHz quasi peak. Maximum input and output levels shall be +20dBV. Dimensions 482 x 45 (1U) x 211mm (19 x 1.8 x 8.3 ins). Weight 3.5kg (7.7lbs).

The system controller shall be the Martin Audio WX3A.



#### SPECIFICATIONS

| MAINS SUPPLY                     | IEC mains connector with integral fuseholder and voltage selector switch  |
|----------------------------------|---|
| MAINS<br>VOLTAGE                 | Selectable 100, 120, 220, 240, VAC 50-60Hz  |
| INPUTS                           | XLR3-31 or equivalent > 36k electronically balanced, CMRR > 67dB @ 10kHz maximum level +20dBu Pin 1 n/c / Pin 2 + / Pin 3 -   |
| OUTPUTS                          | XLR3-32 or equivalent < 50 Ohms electronically balanced with auto correction for unbalanced termination. Maximum level +20dBu into 500 Ohms (with limiter defeated) Pin 1 gnd / Pin 2 + / Pin 3 - |
| SIGNAL +<br>NOISE/NOISE<br>RATIO | >97dB @ 2V output 20Hz-20kHz quasi peak with open circuit input   |
| FIXED FILTERS                    | Lowpass -3dB @ 35kHz 12dB/octave<br>ultimately 18dB/octave<br>Highpass -3dB @ 25Hz 12dB/octave or as<br>defined by system parameters  |
| SYSTEM<br>PARAMETERS             | Crossover frequencies and slopes, level matching and phase adjustments defined by plug-in board   |

| LIMITERS                  | Individual band limiters with switchable threshold and programme related selectable attack times ratio 20:1 |
|---------------------------|---|
| INDICATORS                | 2-way stereo/3/4-way mono LED's. Signal present, threshold and limit LEDs on each band                      |
| FRONT PANEL<br>FACILITIES | Mains switch, power and system status indicator, 4 x level controls (-infinity to +6dB)                     |
| PROTECTION                | Auto-muting relays and soft start (4 secs)  |
| GROUNDING                 | IEC direct to chassis. Signal ground switchable on outputs, direct or lifted                                |
| DIMENSIONS                | (W) 482mm x (H) 45mm x (D) 211mm<br>(W) 19ins x (H) 1.8ins x (D) 8.3ins                                     |
| SHIPPING<br>DIMENSIONS    | (W) 540mm x (H) 106mm x (D) 312mm<br>(W) 21.2ins x (H) 4.1ins x (D) 12.3ins                                 |
| WEIGHT                    | 3.5kg (7.7lbs)  |
| SHIPPING<br>WEIGHT        | 4kg (8.8lbs)  |

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. E &O E.

Martin Audio is committed to refining the state of the art sound reinforcement by combining in-depth product and field application research with advanced manufacturing techniques.

Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



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