Martin Lighting Director Specifications

Parameters Monitored	Maximum Number of Trackers
XYZ position and velocity	24 using 6 cards at normal sampling rate6 using 6 cards at double sampling rate
Tracking Rate Vs Range 27 Hz at 7 x 10 m 20 Hz at 14 x 10 m 15 Hz at 20 x 10 m	
at normal sampling rate 54 Hz at 7 x 10 m 40 Hz at 14 x 10 m 30 Hz at 20 x 10 m 22 Hz at 25 x 15 m	
16 Hz at 30 x 20 m 11 Hz at 40 x 30 m at double sampling rate	
Repeatable Accuracy 5 cm. (2 in)	Live Noise Tolerance 110 dB, 125 dB (with optional high noise filter)
Ultrasonic Frequencies Used 19.5-22 kHz	Prediction Kalman, 0.00 to 1.00 second into the future, with varying sensitivity
Averaging 1-64 samples, DMX smoothing algorithm	

Software

Windows 95/98: friendly, customizable and resizable graphical user interface. Free upgrades released on the Internet, with automatic installer. Test utilities to generate and monitor DMX input and output. Support for multiple configurations to accommodate different venues. Noise and echo rejection for ultrasonic detection. Metric and imperial units. Four levels of online help, including rollover tips and hints.

PROGRAMMING FACILITIES

Call up maps remotely from DMX, MIDI or serial controller. Start and stop tracking remotely. Load individual maps or sets of maps directly from the program. Adjust global tracking parameters: pulse volume, noise rejection, and sample rate. Adjust tracker parameters: samples averaged, anchoring, and prediction. Advanced diagnostics in real time. Autostart capability starts the program, loads maps and starts tracking on powering up the PC. DMX Master for selective override of specific DMX channels. Routines for the "Solospot" product for fixed installations.

PLAYBACK FACILITIES:

Call up maps remotely from DMX, MIDI or serial controller. Start and stop tracking remotely. Load individual maps or sets of maps directly from the program. Adjust global tracking parameters: pulse volume, noise rejection, and sample rate. Adjust tracker parameters: samples averaged, anchoring, and prediction. Advanced diagnostics in real time. Autostart capability starts the program, loads maps and starts

tracking on powering up the PC. DMX Master for selective override of specific DMX channels Routines for the "Solospot" product for fixed installations.

DMX FACILITIES

Up to 128 fixtures can become followspots. Standard 5-pin DMX IN and OUT connectors. Completely configurable DMX THRU functionality. 512 channels (one card) and 3072 channels (six cards). Large moving light library containing most manufacturers. Library editor to add new fixtures to the library.Interfaces with any DMX console or functions as a stand-alone controller.

Hardware

SHIPPING SIZE:

565 x 410 x 150 mm (22.2 x 16.1 x 5.9 in)

SHIPPING WEIGHT:

4 kg (8.8 lb)

ISA CARD:

Half-size standard card for ISA bus. Connects to the breakout box via a supplied 26-pin cable. Up to six cards can be used in the same PC.

BREAKOUT BOX:

19" Rackmount (483 x 65 x 105 mm). Features 5-pin DMX IN and OUT connectors, four 1/4" tracker inputs, four XLR speaker outputs and four DC outputs to power tracker radio receivers. 115V or 230V selectable power.

SPEAKERS:

Four small ultrasonic speakers, one in each corner of the stage, preferably mounted 5 to 9 m (16 and 30 ft) above stage level.

MIDI:

In/out/thru support for Roland MPU-401 compatible cards. Support for built-in MIDI synthesisers.

SERIAL:

Fully configurable bi-directional parameters for RS-232 ports. ASCII streams delivered continuously or on request.

MINIMUM PC REQUIRED:

Windows 95 or 98 / Pentium 233 / 16MB RAM / 10 MB Hard disk space / 800 x 600 16-bit display / 2 button mouse / one ISA slot. Optional: MIDI card, CD-ROM.