

S O U N D P R O J E C T S

PRODUCT INFORMATION
EASY TOUR
SYSTEM



SOUND PROJECTS
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EASY TOUR SYSTEM

Master Blaster's EASY TOUR system combines maximum efficiency and compactness in one twin-bin concept. The EASY TOUR system is designed for medium sized configurations. The EASY TOUR (E.T.) has been developed with the needs of touring bands and performing acts in mind.

Easy handling and small dimensions (the system takes up no more than half a small touring van), yet more than enough SPL (134dB @ 1m) and versatility to perform in a variety of situations ranging from a small club to a thousand-seater room. The EASY TOUR system (two sub-lows and two top cabinets) is designed to perform as a stand-alone system, but can be expanded with a SP3M or a second EASY TOUR set.

The ET's top cabinet is placed on top of a sub-low cabinet by means of a 90cm shaft. This way the high frequency horn is placed well above 2 meter, so forget about podium segments, flight cases or beer crates to bring your stack to size!

Master Blaster's philosophy to provide systems with virtually flat frequency response enables the sound engineer to create his/her specific sound with a minimal effort. For most programme material the power balance between one top and one bass will be just right.

The advantages of self-powered system design are constantly employed to achieve maximum efficiency through optimal cooperation of the different components e.g. speakers, horns, filters, electronics.

Ease of use has been a key feature in all SOUND PROJECTS designs. Therefore nothing but the

necessities are employed in a SP system. True PLUG AND PLAY without crash sensitive hardware, often found in digital equipment. Minimal cabling, no complimentary control units, and virtually no equalising are necessary.

To guarantee maximum reliability and noiseless (hiss free) operation each driver of the EASY TOUR system is powered by its dedicated 600W MA4 power amplifier. This unique and proprietary design is an integrated combination of amplifier, filter section and protection circuitry.

The high/mid section of the top cabinet is based on a 1.5" and a 10" mounted on a shared wave-guide. This dedicated constant directivity horn smoothly blends the radiation pattern and presents the optimum air-load of the two transducers.

The top cabinet is power-amp hosted by the bass cabinet through a standard 8-pin speacon.

Despite of the wide horizontal dispersion it 's capable of generating an impressive 134dB SPL endowing the EASY TOUR with an excellent throw for live performances.

The sub-low is a port loaded design incorporating two of our proprietary 15" long excursion drivers that can make the same volume displacement as conventional 21" drivers and yet generate the punch of a 15". At 320Hz, the cross-over between the sub-low and top cabinet is slightly higher as in most SOUND PROJECTS, withholding extra demands on the 10" driver.

MA4 POWER AMPLIFIER CONTROL MODULE

MA4 power amplifier control module

The MA4 power amplifier module incorporates power supplies for the controllers and MA4 electronics, soft power up, filter sections, three or four amplifiers (product dependent) and protection circuitry. The integral network of these different sections are designed to perform with minimal number of components yet acquiring the highest efficiency.

The step-less speed silent fan cooler avoids unwanted cooling noises to the limit.

The amplifier module is available in different mains voltages (100V, 115V, 230V)

Signal conditioning

The DALC (Dual Audio-logic Level Control) audio processing unit of the MA4 power amplifier module incorporates multiple analogue VCA techniques with high accuracy, headroom and dynamic range. The DALC is a dual operating RMS based gain riding circuit which maintains the tonal balance of the sound as perceived by the human ear, even at very high levels. Filter peaking, which could limit headroom and often encountered with commonly used feedback-filters, is avoided through use of constant-Q filter sections.

MA4 power amplifiers

The multiple channel amplifiers in the MA4 module is a low feedback, low distortion design with overheating protection. It reveals good stability upon spontaneous loads along with excellent protection handling of fast rise time signals and excessive signal conditions.

Power Supply Unit

The PSU of the MA4 power amplifier module comes with soft power up, to enable multiple cabinet switch-on's at once without excessive transformer inrush current.

When an over voltage is detected the mains input will automatically be shortcut (high-voltage clamping) to make sure the outside mains fuse (for instance from a generator) detects the problem, and shuts down.

Controls and connectors

Mains power LED indicator (Green)

Signal present LED indicator (Yellow)

LF protection active (Red)

HF protection active (Red)

Input 3 pin XLR (female), balanced

Signal thru XLR (male)

Protection circuits:

- * Mains inrush current limiter
- * Over-voltage protection
- * Self resetting over temperature protection
- * Temp. and signal dependent DC fan
- * Speaker overheating and fusing current protection
- * Delayed speaker switch-on

Data Easy Tour system

Amplifier(s): 4x MA4-technology

Rated output power:

2 x 600W @ 4 ohms

2 x 300W @ 8 ohms

Frequency response (-3dB): 30 Hz - 20kHz

Max. SPL continuous: 134dB@1m / stack

Calculated peak/longterm: 138dB@1m / stack

Coverage angle: 85° H, 30° V

Drivers: 2x15",10",1"

Transient output: 1500W

Crossover 4th order: 320/1600Hz

Low-pass 4th order: -

Filter subsonic: 30Hz, 2nd order

Filter ultrasonic: 20.000Hz 1st order

Mains voltage: 210 - 240V (50/60 Hz)
100 V, 110 V optional

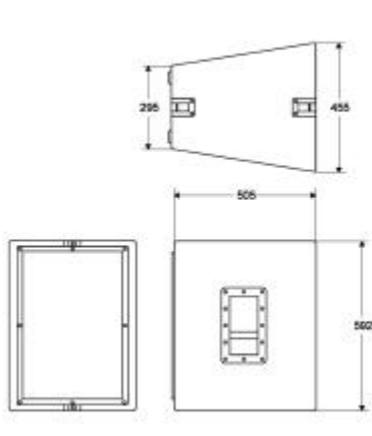
THE EASY TOUR TOP LOUDSPEAKER

THE EASY TOUR SUB LOUDSPEAKER

Easy Tour top loudspeaker

The ET top loudspeaker cabinet is a high/mid, two-way, enclosure holding a 10" Low/Mid-driver and a 1.5" HF driver mounted on a proprietary constant directivity horn that optimises the air load and smoothly blends the radiation pattern of the two transducers.

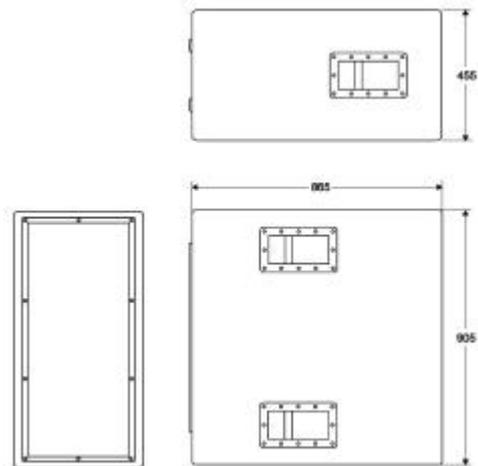
The enclosure is constructed of 13-layer 'ecoplex' (poplar) plywood and is covered with sturdy industrial automotive carpet (impact resistant paint finish optional).



Easy Tour top, cabinet dimensions in mm.

Easy Tour sub loudspeaker

The ET sub loudspeaker is responsible for the Mid/bass and sub-low octaves. The cabinet is a bass-reflex concept containing two 15" drivers powered by separate 600W amplifiers. The enclosure is constructed of 13-layer birch plywood for extra stiffness and impact rigidity.



Easy Tour sub, cabinet dimensions in mm.