

SCOPE SYSTEM

T-2112 (MicroScope)




AXYS[®]

TOTAL TRANSPARENCY

SCOPE SYSTEM

T-2112 (MicroScope)

The **AXYS**® 'Micro-Scope' system is reflecting the cutting edge of Duran Audio's advanced sound system technology.

The 'Micro-Scope' allows you to focus in on the needs of your application with an accuracy never possible before .

The T-2112 'Micro-Scope' is the latest addition to Duran Audio's **AXYS**® series of self powered actively controlled sound systems. It is a trapezoidal shaped 12" and 2" system with incredible power handling capability in a small sized package.

The modest dimensions allow the T-2112 to be used unobtrusively as a stand-alone system in all kinds of applications. The precise defined dispersion pattern makes the unit suitable for true array configuration.

The T-2112 features a 2 inch driver with the carbon fibre technology as applied in the **AXYS**® ARENA SYSTEM and therefor offering enormous headroom in the mid and high band and a very low distortion rate.

Whenever extended low-end is needed, an integrated 100 Hz roll off filter can be activated allowing the T-2112 to be combined with the **AXYS**® B-118 or B-218 subwoofer.

The integrated flying hardware together with the optional rigframe offer easy installation when flying is required.

With the T-2112 you will have a cost effective, easy to handle, reliable system that will operate day after day, year after year. The 'Micro-Scope' will certainly exceed your expectations of such a small sized system and will fulfill your needs within the scope of your work.

The **AXYS**® 'Micro-Scope' system just sounds magnificent.



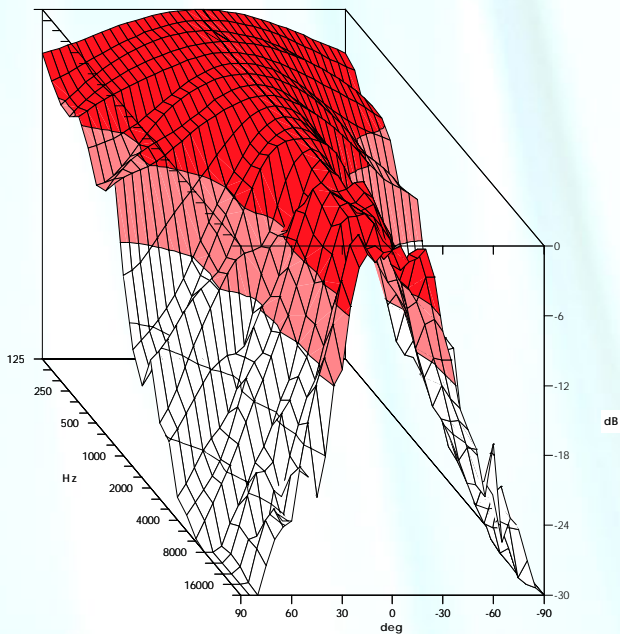
T-2112 + B-118 Subwoofer

FEATURES

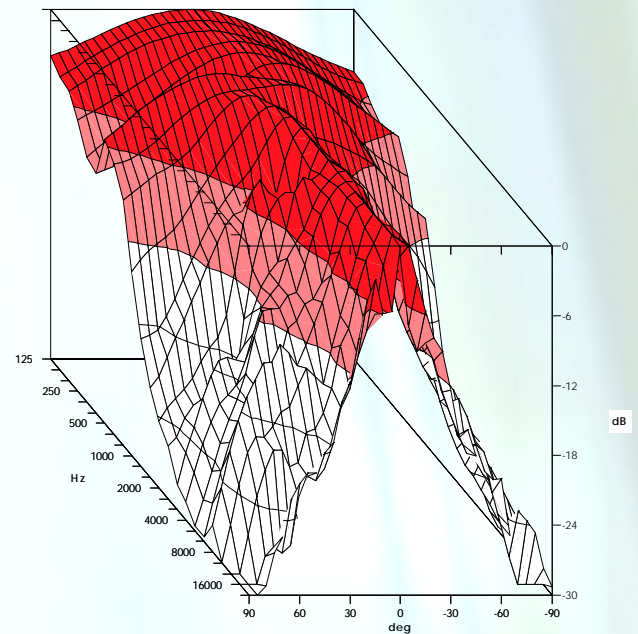
- Σ High Power Output
- Σ Self Powered
- Σ Small Dimensions
- Σ High Reliability
- Σ Carbon Fibre Technology
- Σ True Array System

APPLICATIONS

- Σ Concert Reinforcement
- Σ Theatre front-of-house
- Σ Movie Theatre/Cinema
- Σ Music Clubs
- Σ AV/Multi-media Studios
- Σ Religious Facilities



T-2112 3-D graph horizontal 1/3 octave averaged (-6 dB and -12 dB). Angular resolution 5 degrees.



T-2112 3-D graph vertical 1/3 octave averaged (-6 dB and -12 dB). Angular resolution 5 degrees.

T-2112 Architectural and engineering specifications.

The loudspeaker unit shall be of the two-way active type with integrated electronics, one direct-radiating 12" low/mid speaker in a vented enclosure and one 2" ferrofluid cooled driver with carbon-fiber diaphragm. A specially developed horn made of fiberglass reinforced epoxy shall be mounted on the driver. The horn shall have an exponential area increase and a constant directivity over a wide frequency range. Arrayability shall be guaranteed by a well defined frequency independent horizontal opening angle.

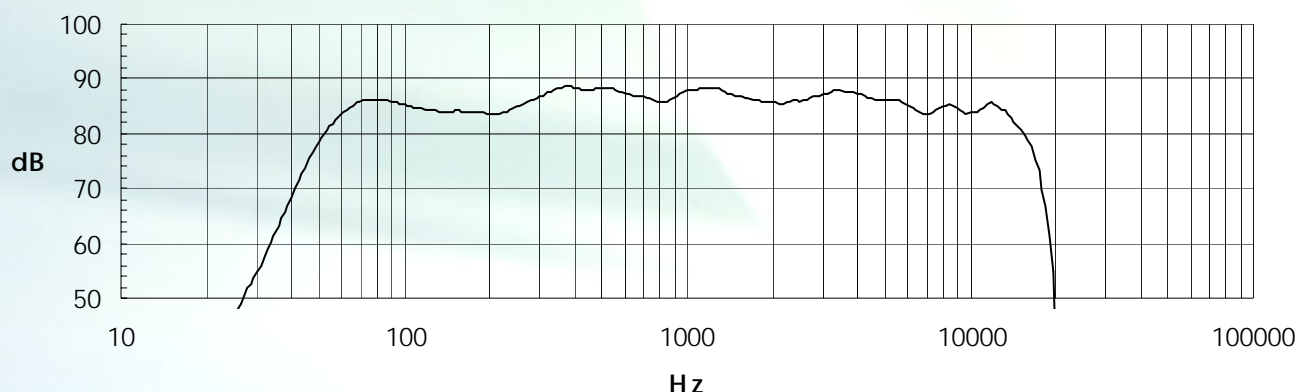
The complete electronics shall be mounted on a chassis which is placed in a separated part at the backside of the enclosure. Electronics shall consist of active filters to implement cross-overs and equalization, protection circuitry and two power amplifiers. The filter section shall include a low frequency 'filter' switch which enables the user to select 'full range' or subwoofer assisted reproduction ('100 Hz highpass'). An allpass filter for alignment of the acoustical centers of the transducers shall be part of the filter section. Protection shall consist of two Dynamic Level Control (DLC) circuits that limit the dissipated mean power of the transducers to a safe value, DC protection on each of the amplifier outputs, high chassis temperature and high voltage on the mains supply. A LED on the front and rear side shall display the status of all protection circuits. An active heat transfer system shall consist of an integrated fan with speed controlled by chassis temperature and input level to reduce fan background noise. The balanced signal input connector shall be a 3p female XLR type (p2 = +, p3 = -, p1 = gnd), the full-range signal output link connector shall be a 3p male XLR type (p2 = +, p3 and p1 = gnd). The mains connector shall be a male IEC 320 type. All connectors shall be grouped together at the lower side of the chassis.

The enclosure shall be constructed of laminated birch plywood. Two rigging frame attachment seat-tracks shall be mounted on top of the enclosure. It shall be equipped with two recessed handles, eight ABS interlocking corners, a 36 mm tripod mounting socket and it shall be trapezoidal shaped to facilitate the construction of clusters. Four flexible tubes shall provide an air path for the chassis cavity. The front of the enclosure shall be covered with open cell foam mounted on a protective perforated steel grill. The enclosure shall be finished with a polyurethane coating.

The complete loudspeaker unit shall meet the following criteria:

Frequency range of 48 - 18k Hz on axis (+/- 3 dB), max. SPL at 1m of 125 dB_{SPL} continuous and 135 dB_{SPL} peak, - 6 dB coverage angle of 60° horizontal by 40° vertical averaged 2k to 15k Hz. Dimensions are 25.0" (634 mm) H x 16.3" (414 mm) W x 18.5" (469 mm) D, trapezoidal shaped. Weight 95 lbs (43 kg).

The loudspeaker unit shall be the AXYS model T-2112.



T-2112 Full space on axis SPL, 1/3 octave averaged; Distance 7.5 m, input level 0.1 V_{rms}; Low end (<120 Hz) from nearfield measurements.

TECHNICAL DATA ¹⁾

Acoustical²⁾.

Frequency Range(f-3 dB) ³⁾	T-2112 48-18000 Hz(+/-3 dB)
Max.SPL (1m) ⁴⁾ - Continuous	125 dB
- Peak	135 dB
Coverage Angle ⁵⁾	60° H x 40° V
Self generated noise SPL (A-weighed, 1m)	28 dB

Electrical

Input	-Sensitivity(100 dB _{SPL} /1m)	-21dBu
	-Impedance (balanced)	20k Ω
	-Connector(XLR female)	p2=+, p3=-, p1=gnd
Link	-Impedance	300 Ω(unbalanced)
	-Connector(XLR male)	p2=+, p3=-, p1=gnd
Cross-over	-Type	24 dB/Oct. with transducer alignment
	-Frequency (-6dB)	1.9k Hz
	-Control switch	full range / 100 Hz highpass
Power amplifiers ⁴⁾		2 x 350 W _{rms} (8 Ω)
Protection	-DLC	multi band
	-Thermal	T _{heatsink} >80° C
	-Mains voltage	over/under voltage
	-DC protection	each amplifier
Mains	-Voltage (+5/-10%) ⁶⁾	230 V
	-Connector type	IEC 320
	-Fuses (slow blow)	1 x 6.3 A/1 x 100 mA
	-Power Consumption	56 W _{idle} / 600 W _{full load}

General

Temperature Range (ambient)	0 to +40° C
Transducers	1 x 12" / 1 x 2", horn loaded
Dimensions(H x W x D)	25" x 16.3" x 18.5"(Trapezoidal)
	634 x 414 x 469 mm(Trapezoidal)
Weight	95 lbs / 43 kg

1) Specifications are valid for 1 unit with 'filter' switch at full range position unless stated otherwise.

2) Measured under anechoic 'full-space' conditions unless stated otherwise.

3) Low cut-off frequency 'half space'.

4) Measured with gated sinewaves.

5) -6 dB, average value 2k - 15k Hz.

6) Other voltages are available upon request



AXYS[®]
is a registered trademark
of

DURAN
AUDIO

Koxkampseweg 10
P.O. Box 2050
5300 CB Zaltbommel
The Netherlands

Phone: +31 418 515583
Fax: +31 418 518077

YOUR LOCAL **AXYS**[®] DEALER


AXYS[®]

TOTAL TRANSPARENCY

New materials and design refinements are introduced into existing products without previous notice. As a logical consequence, present AXYS systems may differ in some respect from those presented in this brochure, but will always meet or exceed currently published specifications, unless stated otherwise.