



- 94.0 dB LF/106.5 dB HF SPL 1W/1m average sensitivity
- Single magnet motor
- 400W LF - 140W HF maximum program power handling
- 65 mm (2.5") LF voice coil
- 44 mm (1.75") HF PEN diaphragm
- Proprietary Phase Plug design
- HF copper sleeve for reduced distortion and higher output
- 90 degrees nominal conical dispersion
- Atmos™ ready*
- Extended LF design
- Suitable for very compact enclosures and stage monitors

The 10CX650 is a 10" - 1" coaxial transducer designed for use in compact reflex enclosures and stage monitors as small as 30 lt, with a nominal dispersion of 90 degrees.

The high force ceramic single magnet structure makes the 10CX650 a lightweight speaker for its performance class - only 6 kg (13.2 lb).

The 65 mm (2.5 in) LF edgewound CCAW voice coil employs our Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a balanced coil with a uniform distribution of mass and motion energy. This results in an extremely linear motor assembly.

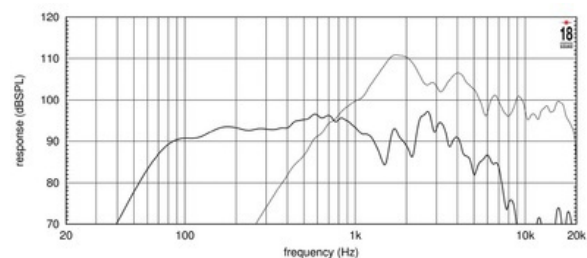
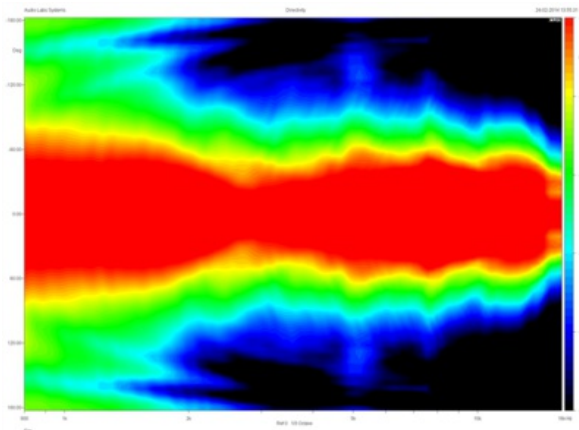
The low profile curvilinear LF cone provides a smooth response within its intended frequency range and maximum reliability under high mechanical stress.

Equipped with a proprietary hybrid radial tangerine phase plug, the integrated HF compression driver has been designed to give smooth coherent wavefront at the horn entrance in all working frequency ranges with a high level of manufacturing consistency. The phase plug, with its short openings and high flare rate value, assures low distortion and remarkable improvements in mid-high frequency reproduction. A copper sleeve reduces inductance values above 10kHz, improving phase and impedance linearization.

The HF diaphragm assembly is made with a proprietary treated Polyethylene material. Thanks to its superior diaphragm dimensional stability, the polyethylene shows consistent behavior throughout its whole working life. Moreover, this particular material with its very high value of elasticity modulus is capable of superior transient and intermodulation distortion response. The flat suspension shape is designed to maintain low stiffness and low mid band distortion and response.

An edge-wound aluminum voice coil wound on proprietary treated Nomex completes the diaphragm assembly. Thanks to its physical properties, the proprietary treated Nomex former shows a 30% higher value of tensile elongation at a working operative temperature, when compared to Kapton. This feature enables proper energy transfer control from the voice coil to the dome in real working conditions. Moreover, this former material is suitable for use in damp and wet environments.

A specific dedicated HF driver throat design has also been chosen, maximizing the cone's profile coupling.





10CX650 8Ω

Coaxiales - 10.0 Inches

ESPECIFICACIÓN

Diámetro nominal	260 mm (10.24 in)
Impedancia nominal	8 Ω
Impedancia mínima LF	6.1 Ω
Rango de frecuencia	60 - 4800 Hz
Ángulo de dispersión	90 °
Tratamiento del cono del woofer	Humidity repellent

ESPECIFICACIONES UNIDAD HF

Sensibilidad de HF	106.5 dB
Manejo de potencia nominal de HF	70 W
Manejo de potencia continua de HF	140 W
Diámetro de la bobina de HF	44 mm (1.75 in)
Material de la bobina de HF	Edge wound Aluminum
Material del diafragma	PEN
Cruce recomendado	1.6 kHz

ESPECIFICACIONES UNIDAD LF

Sensibilidad de LF	94.0 dB
Manejo de potencia nominal de LF	200 W
Manejo de potencia continua de LF	400 W
Diámetro de la bobina de LF	65 mm (2.5 in)

PARÁMETROS

Frecuencia de resonancia	54 Hz
Re	5.1 Ω
Qes	0.39
Qms	5.9
Qts	0.35
Vas	36.4 dm ³ (1.29 ft ³)
Sd	346.0 cm ² (53.63 in ²)
η _o	1.5 %
X _{max}	6.0 mm
M _{ms}	39.5 g
Bl	14.0 Txm
Le	0.9 mH
EBP	138 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	260 mm (10.24 in)
Diámetro de circunferencia de los tornillos	243 mm (9.57 in)
Diámetro de la perforación en el baffle	230 mm (9.06 in)
Profundidad	155 mm (6.1 in)
Espesor del reborde y junta	8 mm (0.31 in)
Peso neto	6.2 kg (13.67 lb)
Peso del envío	6.8 kg (14.99 lb)
Caja de envío	275x275x195 mm (10.83x10.83x7.68 in)