

FO 10

Article numbers: (black) 1007999, (white/RAL*) 1008091

If you're looking for compact dimensions and balanced sound with crystal-clear HF and expressiveness in the mid and lower frequency ranges without compromise, the FO 10 is a perfect choice.

The combination of a 10" woofer with a 1.75" voice coil and the rotatable constant directivity horn from the CONTOUR X series, which was developed for the rough and tumble of touring, with a powerful 1" compression driver, results in an assertive full-range solution for speech and music.

With a dispersion angle of 80° x 60°, the horn can be rotated by 90°, allowing the speaker to be used upright, lying on its side or suspended on its side with optimum dispersion in any situation.

The FO 10 is an assertive system speaker that works perfectly with the S118 or S218 subwoofers, delivering rich and precise mids.

Features:

- Compact, passive 2-way speaker
- Support for Lab.Gruppen IPX and LEA Professional with DSP Presets and other DSP platforms with Filter Sheets in open table format
- Rotatable, BEM-optimized constant-directivity HF of the latest generation from the CONTOUR X family
- All-new passive crossovers with self-healing HF protection circuit for maximum operational reliability in fixed installations
- Swivel and tilt wall bracket allows space-saving and visually appealing installation with precise alignment options at the same time
- Matching U-brackets allow for flown installation on ceilings, with the brackets allowing for precise angle adjustments
- Hole pattern on the back in the internationally standardised VESA format for attaching additional mounting accessories required for the particular application
- An external 35 mm stand flange can be attached so that the new FINEO speakers can be fitted to existing installations with appropriate wall brackets
- Extremely solid cabinets in acoustically beneficial MDF and foam-backed grille with additional steel reinforcements
- Standard design with 2 lockable Neutrik Speakon sockets
- Strongly constructed internal steel braces and mountings for the rigging and fixing points as standard, guaranteeing a secure fixed installation in compliance with strict German and European standards
- Simulation data for EASE and EASE FOCUS for predicting sound distribution and speech intelligibility as planning support for larger projects
- Certified ball-impact resistant in line with DIN 18032-3



Characteristics

| | |
|--|-----------------------------|
| Concept | Passive 2-way mid/high unit |
| Cabinet principle | Bass reflex |
| Power handling RMS | 300 W |
| Power handling program | 600 W |
| Power handling peak | 1200 W |
| Nominal impedance ¹⁾ | 8 ohms |
| Max. SPL average ²⁾ | 119 dB |
| Max. SPL peak ³⁾ | 123 dB |
| Sensitivity 1 W/1 m ⁴⁾ | 91 dB |
| Crossover frequency | 2.9 kHz |
| Frequency range -6 dB | 71 Hz - 20 kHz |
| Frequency range -10 dB | 67 Hz - 20 kHz |
| Dispersion angle -6 dB (horizontal x vertical) | 80° x 60° |

Certifications

| | |
|--------------------------------------|--------------------------------------|
| Ball impact resistance (DIN 18032-3) | certified (MPA University Stuttgart) |
| IP protection class (EN 60529) | not specified |

Components

| | |
|-----------------------------------|--|
| Low-/mid frequency | 1x 10" Sica cone speaker with ferrite magnet and 2" voice coil |
| High frequency | 1 x 1" Sica compression driver with ferrite magnet and 1" voice coil |
| Crossover | High pass: 18 dB/octave, low pass: 18 dB/octave |
| High frequency protection circuit | Self-healing PTC fuse |
| Horn | BEM-optimized constant directivity horn, rotatable |

Connections

| | |
|------------------------|--|
| Input | 1 x NL4 Speakon |
| Output/parallel output | 1 x NL4 Speakon |
| Pin assignment | 1+/- (input/parallel output), 2+/- (wired through) |

Amping/DSP Presets

| | |
|------------------|-----------|
| Lab.Gruppen | IPX |
| LEA Professional | Sharkware |

Amping/Filter Sheets

| | |
|--|--|
| Filter specifications in tabular form for frequency response equalization without limiter specifications | Biamp Tesira, BSS, Lab.gruppen, Lake, Linea Research, Marani, Powersoft, QSC Q-SYS, Symetrix |
|--|--|

Mechanical data

| | |
|------------------------|---|
| Mounting points | 2 x M8 lateral, 2 x M8 bottom/lid, 1 x M8 rear, 4 x M4 rear |
| Cabinet material | MDF |
| Cabinet surface | 1-component acrylic enamel |
| Color | Jet black (RAL 9005), signal white (RAL 9003) or special color according to catalog |
| Front grille | Steel front grille with anticorrosive coating, backed acoustic foam and additional steel reinforcements |
| Optional accessories | U-bracket, screw-on flange SF-35, swivel and tilt wall mount (size S for VESA MIS-D, 100 x 100 mm) |
| Dimensions (W x H x D) | 321 x 521 x 328 mm 12.64 x 20.51 x 12.91 inch |
| Weight | 15.2 kg / 33.51 lbs |



Declaration of conformity

Konformitätserklärung

This is to certify that

HK AUDIO FINEO

FD 5 • FD 8 • FD 10 • FD 12 • FD 15 • FD 512 • FD 512 F • FD 518 • FD 518 F • FD 5218 •

comply with the provisions of the Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

This declaration of conformity of the European Union is the result of an examination carried out by the Quality Assurance Department of STAMER MUSKANLAGEN GmbH in accordance with European Standards EN IEC 63000:2018 for RoHS.

Für die nachfolgend bezeichneten Erzeugnisse

HK AUDIO FINEO

FD 5 • FD 8 • FD 10 • FD 12 • FD 15 • FD 512 • FD 512 F • FD 518 • FD 518 F • FD 5218 •

wird hiermit bestätigt, dass sie den wesentlichen Schutzanforderungen entsprechen, die in der Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten (RoHS) festgelegt sind. Diese Erklärung gilt für alle Exemplare und bestätigt die Ergebnisse der Messungen, die durch die Qualitätsicherung der STAMER MUSKANLAGEN GmbH durchgeführt wurden.

Zur Beurteilung der Einhaltung der RoHS-Richtlinie wurde folgende Norm herangezogen: EN IEC 63000:2018.



Stamer Muskanlagen GmbH
Magdeburger Str. 8, 66606 St. Wendel, Germany

L. Stamer

Lothar Stamer, Dipl. Ing.
Managing Director
St. Wendel, 24/08/2023



Stamer Muskanlagen GmbH
Magdeburger Str. 8, 66606 St. Wendel, Deutschland

L. Stamer

Lothar Stamer, Dipl. Ing.
Managing Director
St. Wendel, 24.08.2023

Materialprüfungsanstalt
Universität Stuttgart
Postfach 801540 - 70505 Stuttgart

MPA
Materialprüfungsanstalt
Universität Stuttgart



Prüfungsbericht

Prüfung der Ballweitsicherheit

Berichts-Nr.: 904 1902-0004
Auftraggeber: Stamer Muskanlagen GmbH
Tischstraße 3
66606 St. Wendel
Auftrag-Nr. (Kunde): -
Auftrags-Nr. (MPA): 9041 002 300 / Sgm
Prüfgegenstand: Lautsprecher FINEO FO 10 (1007989) mit Bügel (1088828-01)

Prüfungstermin mit Ausgabedatum: [1] DIN 18032-3:2018-11
Sportstätten - Hallen für Turnen und Spielen und Mehrzwecknutzung - Teil 3: Prüfung der Ballweitsicherheit

Eingetragen am: 05.04.2023
Datum der Prüfung: 25.04.2023
Datum des Berichts: 08.06.2023
Seite 1 von 3 Tabellen
Beleg-Nr.: 3
Anlagen: 0
Skizzen/Zeichn.: 6
Anzahl der Ausfertigungen:

Die Prüfergebnisse betreffen sich ausschließlich auf die Prüfgegenstände.
Verpflichtung des Auftraggebers: Die Prüfergebnisse sind nicht verbindlich. Die Verantwortung für die Einhaltung der Normen liegt beim Auftraggeber.

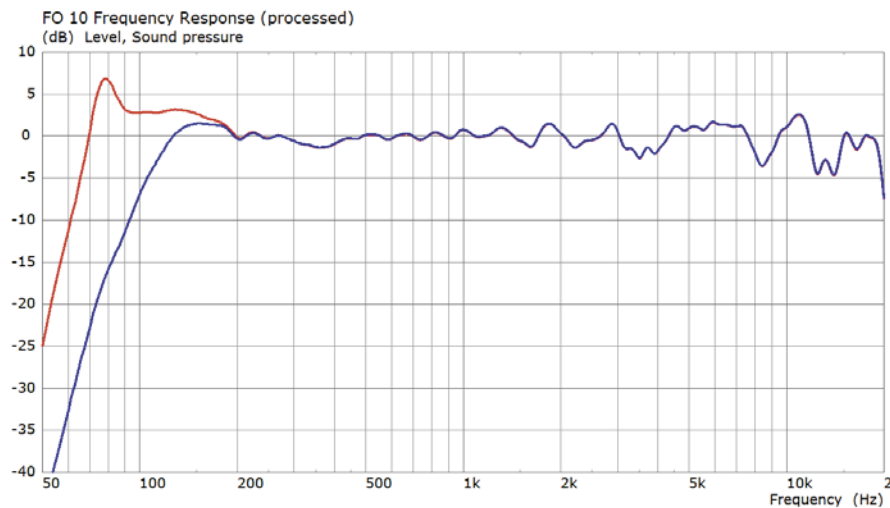
1) According to EN 60268-5 (minimum value not less than 80% of nominal value)

2) 1 m, 10 % THD @ 80 Hz - 20 kHz, (EN 60268-21), full space

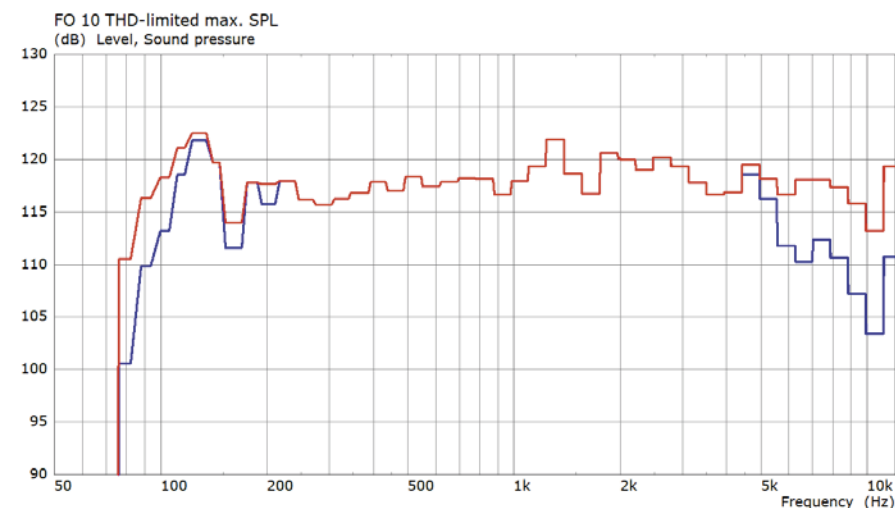
3) 1 m, 10 % THD @ 1.3 kHz, full space

4) 80 Hz - 20 kHz, full space

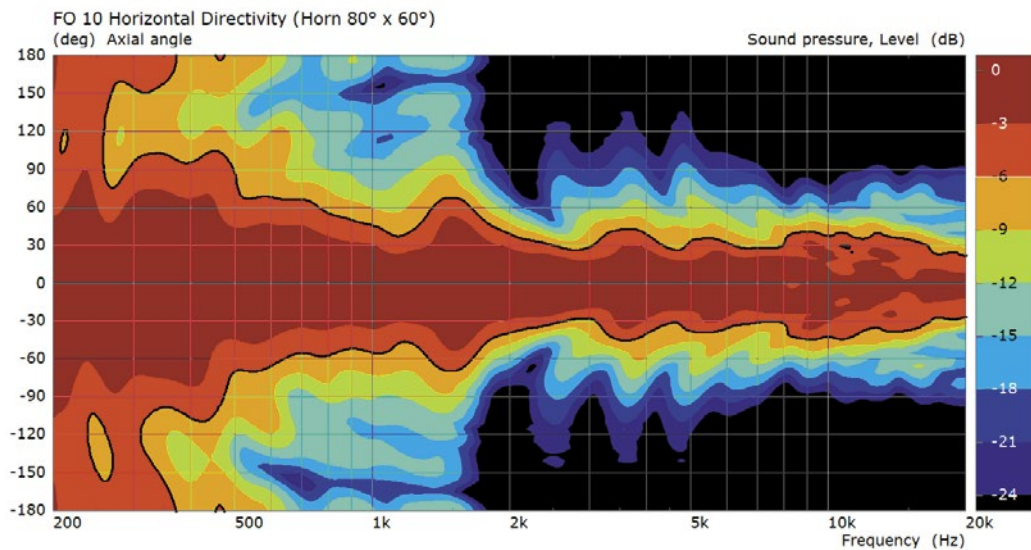
FO 10 Acoustic measurements



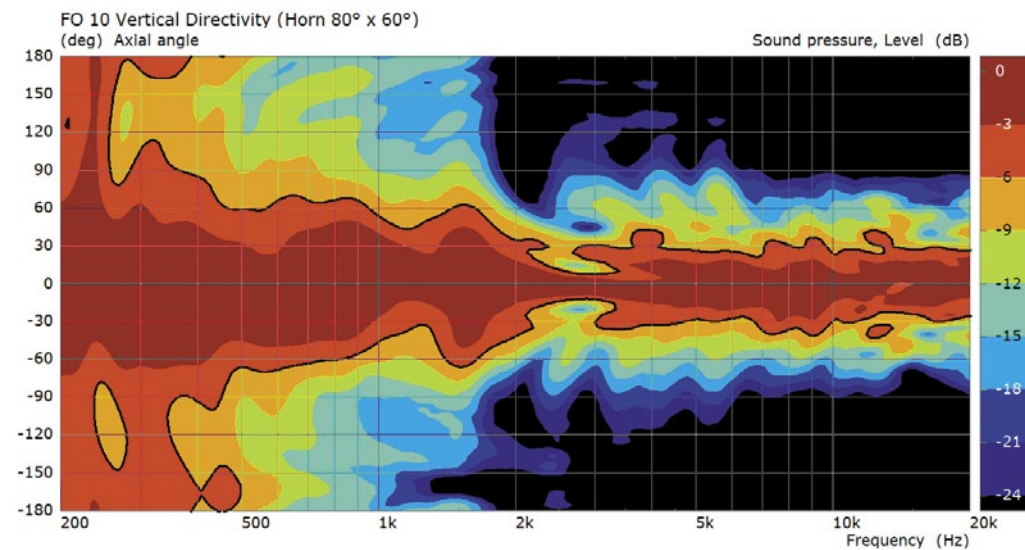
Frequency response with DSP preset (red = full range, blue = high pass)



Max. SPL (blue = 3 % THD, red = 10 % THD)



Horizontal directivity



Vertical directivity

Accessories

Swivel and tilt wall mount S (VESA MIS-D)

Article number: (black) 1008077, (white/RAL*) 1008078

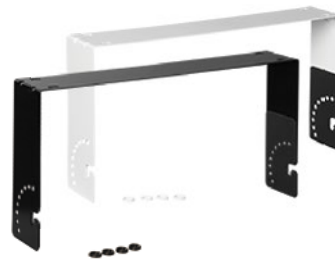
Swivel and tilt bracket for mounting a speaker on a wall. Continuous horizontal rotation and vertical tilt in 10° increments from 0° to 30°. Mounted using the VESA hole pattern (MIS-D) on the back of the speaker.



U-bracket

Article number: (black) 1008027, (white/RAL*) 1008100

FO 10 U-bracket made of high-strength powder-coated steel for fixed installation of an FO 10. Simple installation on the top and bottom of the cabinet by hanging it into hook openings. Adjustable tilt in 15° increments. Ball-impact resistance certificate in line with DIN 18032-3.



SF-35

Article number: (black) 1008137, (white/RAL*) 1008138

External 35 mm flange for use on a standard 35 mm speaker stand. Simple screw connection to the underside of the speaker. Easy-to-use locking screw to lock the speaker to the stand without tools.



AP-8

Article number: 1007376 AP8 black, single, 1007375 AP8 white/RAL, single
1990192 AP8 black, Set of three, 1990193 AP8 white/RAL, Set of three
1990194 AP8 black, Set of four, 1990195 AP8 white/RAL, Set of four

Attachment points with unscrewing protection for mounting on a ceiling or crossbeam. Simple attachment to the M8 mounting threads. Available in sets of 3 or 4 AP-8s as well as individually.



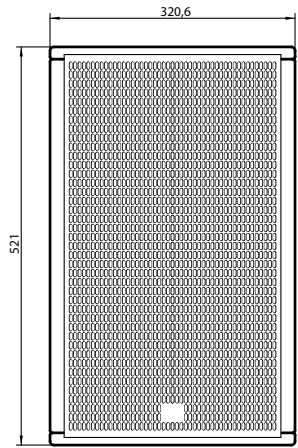
HK Audio BWH-1

Article number: (black) 1006109 Only available in black!

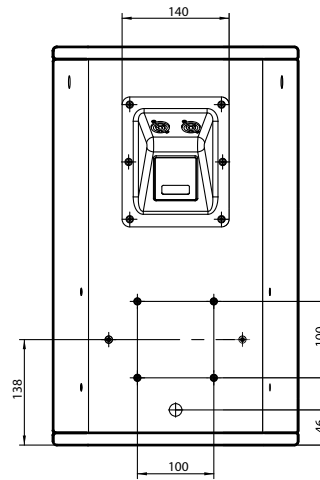
Wall bracket with adjustable 30 cm arm and backstop for mounting a speaker on a wall. This allows for flexible speaker placement on the wall bracket. The arm can be rotated up to 120° and tilted 45°.



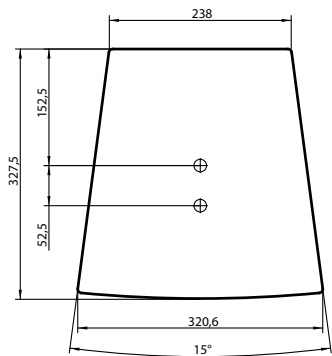
FRONT VIEW



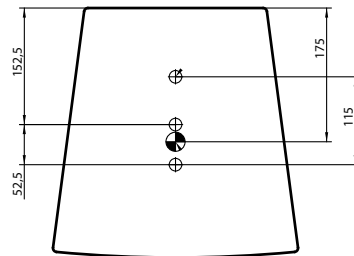
REAR VIEW



TOP VIEW



BOTTOM VIEW



HK Audio
Postfach 1509
66595 St. Wendel, Germany

info@hkaudio.com
fax +49-68 51-905 215
www.hkaudio.com
D-3276