

# SEQUENZA 10

- Line Array System with 2 x 10" / 3 x 1" combined with Waveguide
- 2 + 1 way passive system
- 7° x 77° (N) or 7° x 100° (W)
- FLC-technologie(patent), Waveguide(patent) and integrated Flyware 'Snap&Fly'(patentiert)
- K&F SystemRack or K&F TOPAS is required for use

The SEQUENZA 10 implements the line array technology with a perfection and sound quality unknown until now. Intensive fundamental research and development work resulted in a compact line array element with outstanding features.

The system's sound was calibrated with an enormous precision. Two especially developed horn-loaded 10" neodymium chassis and the use of patented FLC® technology guarantee a warm and full sound reproduction as well as excellent full-range qualities. The dipole arrangement of the chassis and the bass reflex tubes located on the outsides create a high directivity starting at 200 Hz. Using FLC® technology, one of the two 10" drivers is decoupled phase linear so that the coverage area is increasingly reduced. This suppresses gradient side lobes in the coverage pattern and significantly raises the feedback threshold. The tweeter unit of the SEQUENZA 10, which consists of the patented waveformer and three 1" high frequency drivers, creates a planar wavefront up to over 16 kHz. This allows for a coherent coupling of several line array elements even in the frequency range considerably above 10 kHz.

With the SEQUENZA 10N's coverage angle of 77° and the SEQUENZA 10W's coverage angle of 100°, two versions are available that can also be combined together in an array using the same controller preset.

Despite the compact dimensions, the SEQUENZA 10 is capable of achieving the enormous maximal sound pressure level of 150 dB (peak, with 4x SEQUENZA 10).

The patented rigging system 'Snap&Fly' saves set-up time and is unbelievably simple and safe. You preset the angles between the individual speaker elements on the floor. Then, when you fly the array, the individual elements automatically and safely snap into with the correct angles.

The compact SEQUENZA 10 B complements the line array system in the low frequency range. The direct radiating 2 x 15" subwoofer can either be flown together with K&F SEQUENZA 10 NW arrays or used standalone as ground stack or flown as independent bass array. Directional bass arrays can be configured via the K&F SystemRack.

The Speakon connectors that are weatherproof according to IP54 and the waterproof enclosure with a Polyurea coating allow for temporary outdoor usages. The SEQUENZA 10 Line Array is intended for use with the K&F SystemRack.

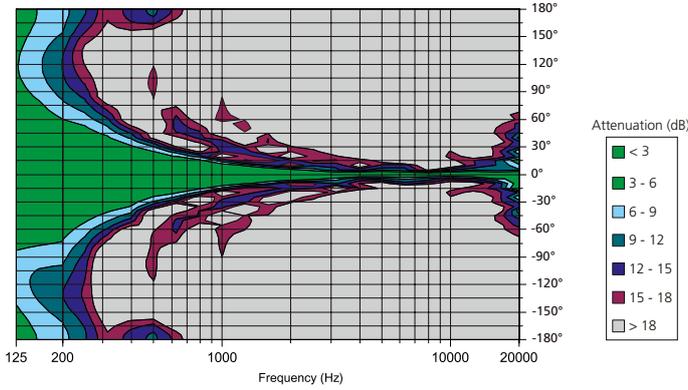


## Specifications SEQUENZA 10 N/W

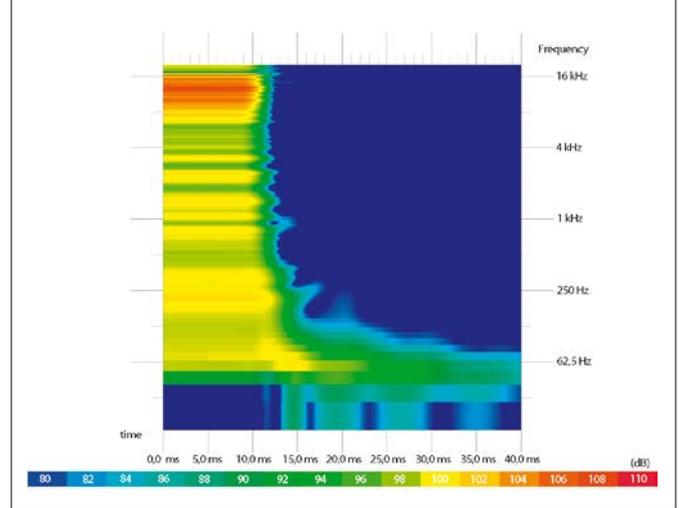
<b>Design</b>	2 + 1-way passive system with FLC®technology completely horn loaded, bass reflex tuning
<b>Frequency range -10 dB</b>	SEQUENZA 10 N: 44 Hz – 22 kHz in 'FR mode' 58 Hz – 22 kHz in 'LCut mode'
	SEQUENZA 10 W: 44 Hz – 23,5 kHz in 'FR mode' 58 Hz – 23,5 kHz in 'LCut mode'
<b>Frequency range -5 dB</b>	SEQUENZA 10 N: 49 Hz – 18,5 kHz in 'FR mode' 87 Hz – 18,5 kHz in 'LCut mode'
	SEQUENZA 10 W: 49 Hz – 23 kHz in 'FR mode' 87 Hz – 23 kHz in 'LCut mode'
<b>Horizontal coverage angle</b>	SEQUENZA 10 N: 77° SEQUENZA 10 W: 100°
<b>Vertical coverage angle</b>	depending on configuration
<b>Nominal power handling LF 1</b>	300 W RMS, 600 W program, 1200 W peak
<b>Nominal power handling LF 2 + HF</b>	300 W RMS, 600 W program, 1200 W peak
<b>Max. SPL (sinus burst 185 msec @ 10% THD)</b>	134.5 dB RMS, 138 dB peak (1 x SEQUENZA 10) 146.5 dB RMS, 150 dB peak (4 x SEQUENZA 10)
<b>Sinus burst 185 ms with K&amp;F SystemRack</b>	134 dB RMS, 137.5 dB peak (1 x SEQUENZA 10) 146 dB RMS, 149.5 dB peak (4 x SEQUENZA 10)
<b>Components</b>	1 x 10" low, 1 x 10" low-mid, both with attached horn, 3 x 1" high frequency driver with 44 mm voice coil
<b>Nominal impedance</b>	LF 1: 12 Ω, Zmin. 12.3 Ω @ 400 Hz LF 2 + HF: 12 Ω, Zmin. 10 Ω @ 220 Hz
<b>Connectors</b>	2 x Speakon 4 pin NLT4MP
<b>Enclosure</b>	Lightweight, water resistant high-tech plywood with highly resilient Polyurea synthetic black, integrated rigging system, 5 Quick Release Pins (undetachable), 2 angled handles, 2 locking profiles for optional transport cover, ball proof grille with exchangeable black acoustic foam
<b>Rigging system</b>	'Snap&Fly', integrated 3-point rigging system
<b>Dimensions (W x H x D)</b>	795 x 303 x 491 mm
<b>Weight</b>	34 kg
<b>Colour</b>	■ RAL 9005 (black)
<b>Accessories</b>	SEQUENZA 10 Flying Frame SEQUENZA 10 Groundstack Kit Transport Cover SEQUENZA 10 N/W Connector Panel CP 4 SEQUENZA 10 - Prof. Speaker-Cabel SEQUENZA 10 Speaker Split Adapter SEQUENZA 10 N/W Speaker-Patch-Cabel Rain Protection SEQUENZA 10 N/W SEQUENZA 10 Lifting Chain Protective Cover SEQUENZA 10 N/W

# SEQUENZA 10

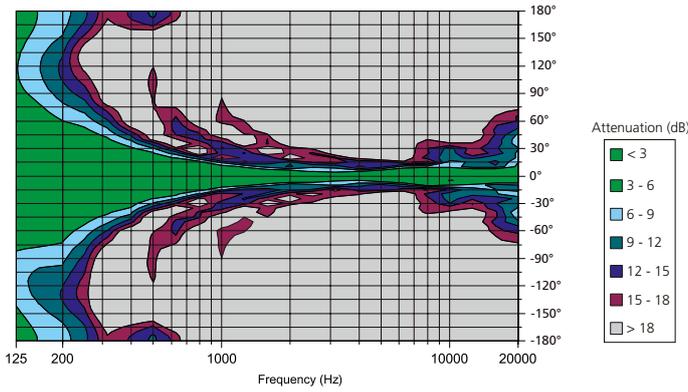
Vertical radiation pattern 3 x SEQUENZA 10, 0° splayed



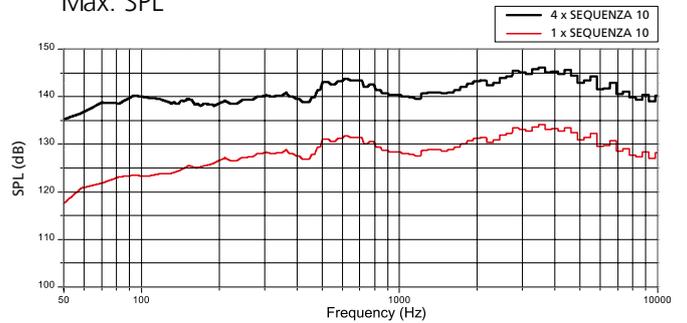
Spectrogram



Vertical radiation pattern 3 x SEQUENZA 10, 3° splayed

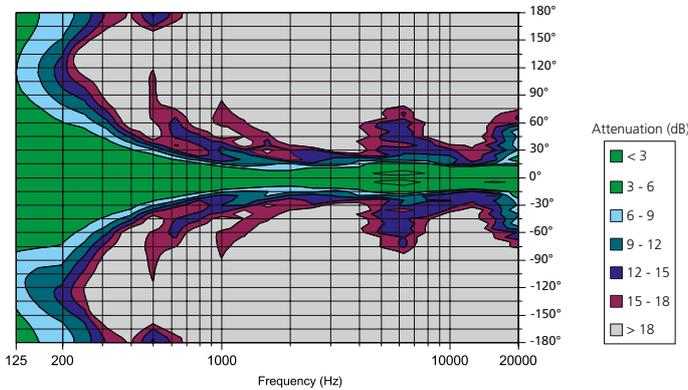


Max. SPL

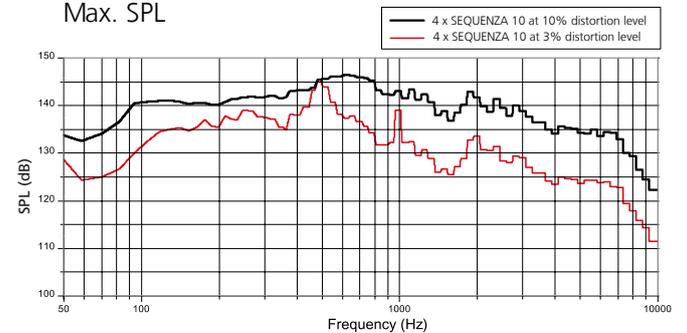


RMS levels measured with MFat 4 m distance with upto 50 % distortion level, recalculated to 1 m. Level values calculated for 4 x SEQUENZA, actual levels depend upon connection impedance and power supply.

Vertical radiation pattern 3 x SEQUENZA 10, 7° splayed



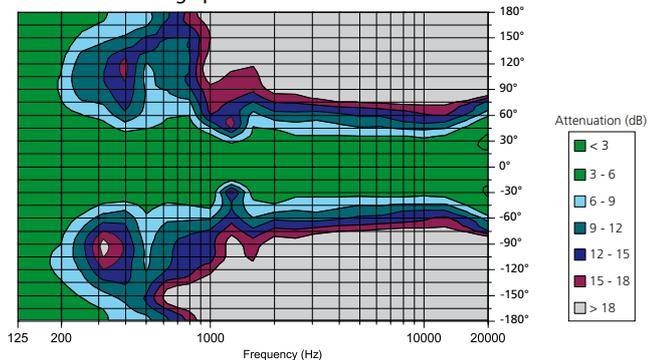
Max. SPL



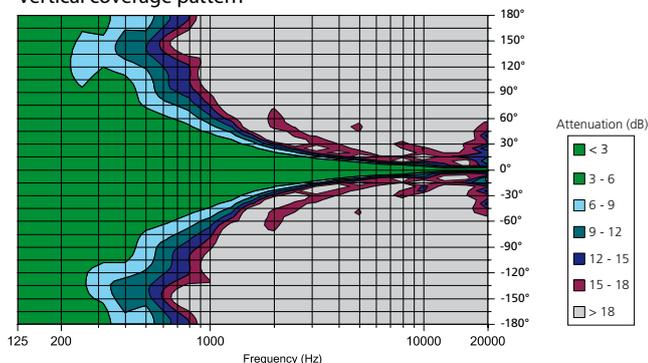
RMS levels measured with MF in 4 m distance, recalculated to 1 m, with Lb. Gruppen FP 10000Q. Power supply 230V.

## SEQUENZA 10 N

Horizontal coverage pattern

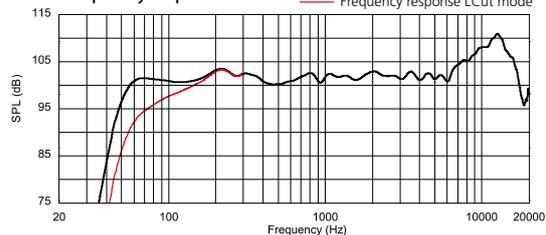


Vertical coverage pattern

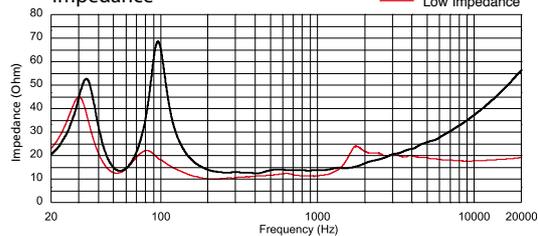


All measurements under free field conditions. Frequency patterns 1/6 octave averaged. Coverage and polar pattern 1/3 octave averaged. The manufacturer reserves the right to make product alterations to improve product quality without prior notice. Errors excepted.

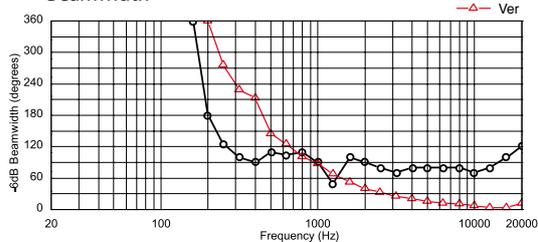
Frequency response 'on axis'



Impedance

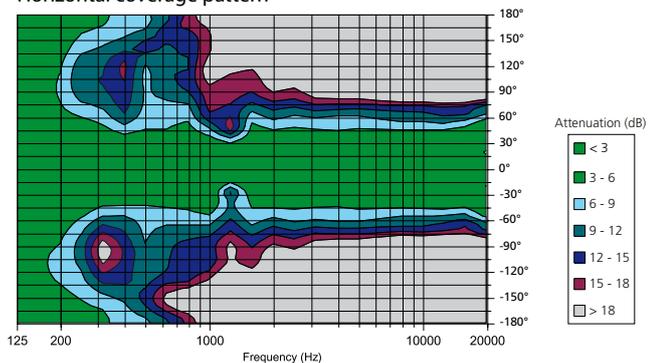


Beamwidth

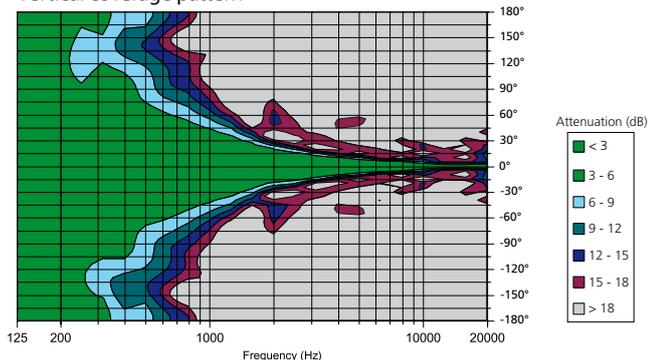


## SEQUENZA 10 W

Horizontal coverage pattern

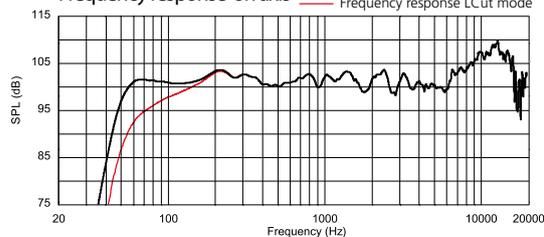


Vertical coverage pattern

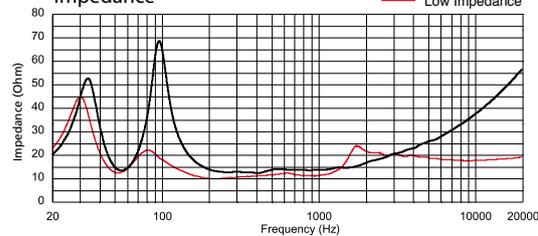


All measurements under free field conditions. Frequency patterns 1/6 octave averaged. Coverage and polar pattern 1/3 octave averaged. The manufacturer reserves the right to make product alterations to improve product quality without prior notice. Errors excepted.

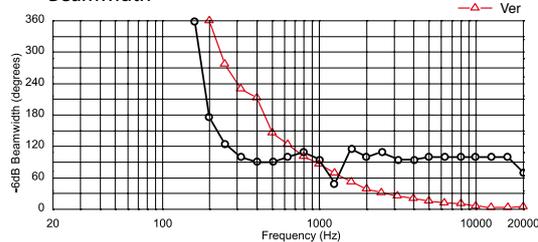
Frequency response 'on axis'



Impedance



Beamwidth



# SEQUENZA 10



## Specifications SEQUENZA 10 B

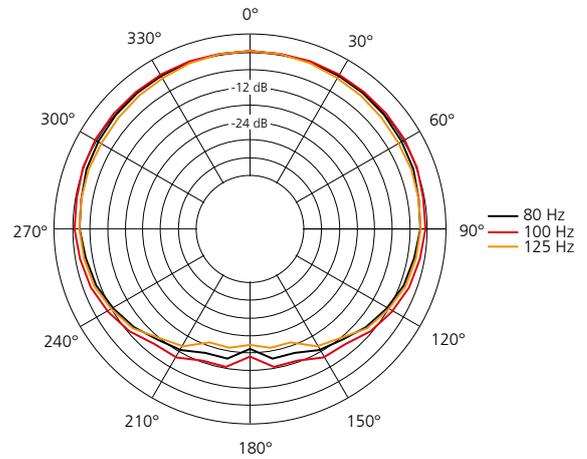
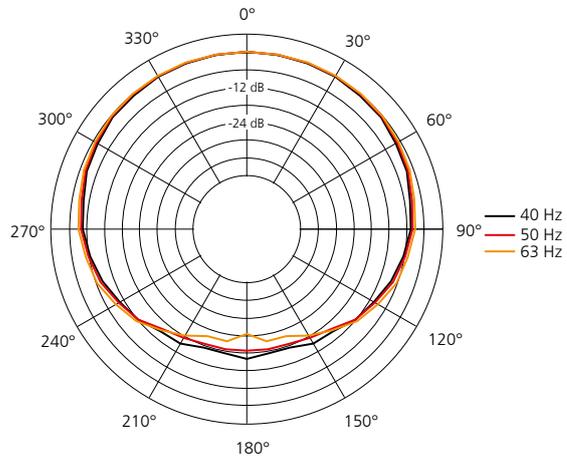
<b>Design</b>	Bass reflex system
<b>Lower cut-off frequency (-3 dB / -10 dB)</b>	39 Hz / 33 Hz
<b>Coverage</b>	Omnidirectional (optional cardioid or hypercardioid in clusters of three via K&F SystemRack)
<b>Power handling</b>	1800 W nominal <sup>1)</sup> 3600 W program <sup>2)</sup>
<b>Max. SPL</b>	133 dB
<b>Components</b>	2 x 15" long excursion chassis, 100 mm voice coil with double centering, internal and external ventilation, double demodulation ring for minimal distortion
<b>Impedance (nominal)</b>	4 Ω
<b>Wiring</b>	Rear: 2 x Speakon 4-pin NLT4MP (1+ / 1-) 2 IN parallel into 2 OUT Front: 1 x Speakon 4-pin NLT4MP (1+ / 1-)
<b>Enclosure Design</b>	Frame reinforced enclosure, 15 mm multiplex with highly resilient Polyurea synthetic black, coating, K&M mounting plate with M20 thread for distance rod, 'Snap&Fly' compatible 4-point rigging system, 8 butterfly handles, 10 plastic sliding feet, 10 stacking grooves for save stackings of identical enclosures, locking profiles for transport cover
<b>Dimensions (W x H x D)</b>	807 x 470 x 850 (without castors) 807 x 470 x 990 (with castors)
<b>Weight</b>	62.0 kg
<b>Colour</b>	■ RAL 9005 (black)
<b>Accessories</b>	SEQUENZA 10 Flying Frame Transport Cover SEQUENZA 10 B Connector Panel CP 4 K&F BOB SEQUENZA 10 - Prof. Speaker-Cabel SEQUENZA 10 B Speaker-Patch-Cabel Rain Protection SEQUENZA 10 Flying Frame SEQUENZA 10 Lifitng Chain Protective Cover SEQUENZA 10 B

<sup>1)</sup> Pink noise 40 - 250 Hz, 2 h;

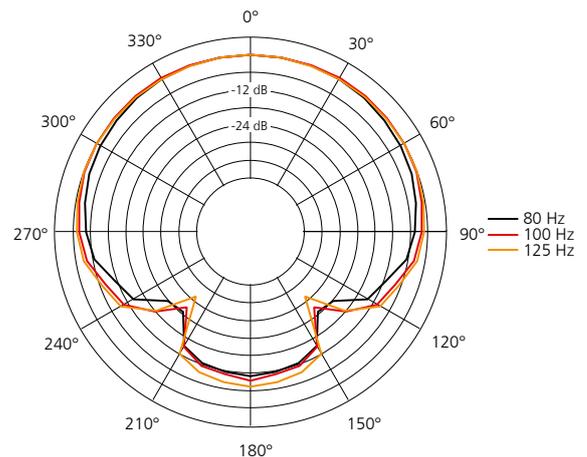
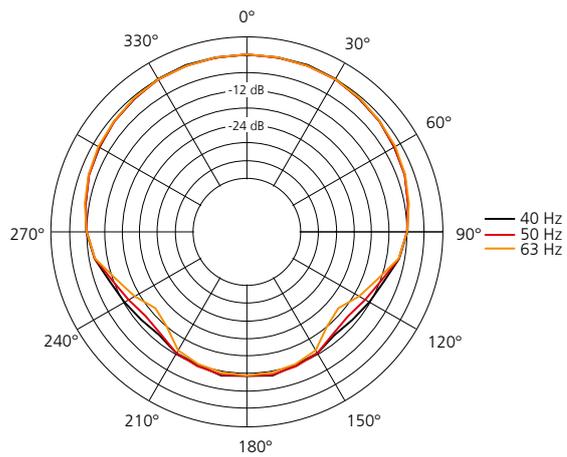
<sup>2)</sup> as 1) but with 50% duty cycle

## Polar diagram SEQUENZA 10 B

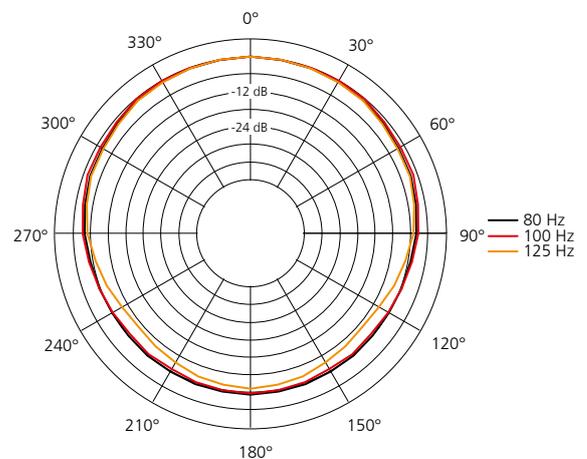
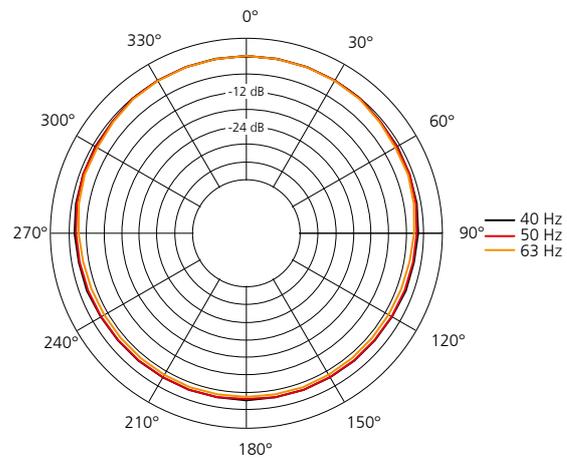
### Cardioid



### Hypercardioid

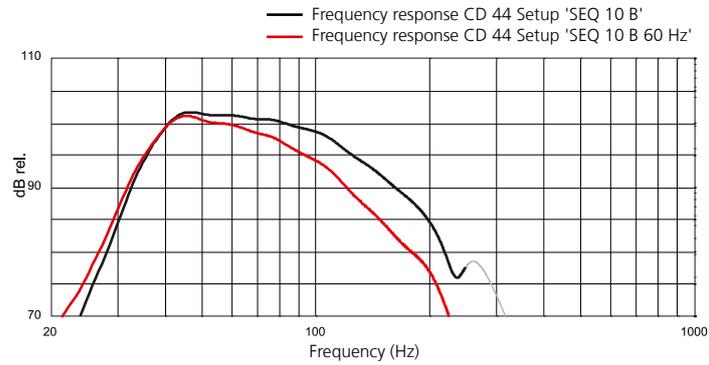


### Omnidirectional



# SEQUENZA 10

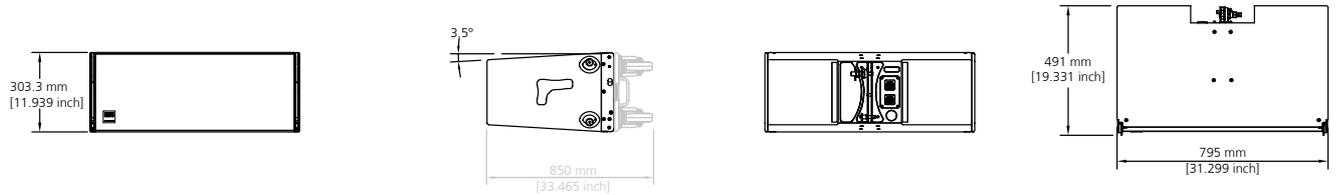
## SEQUENZA 10 B



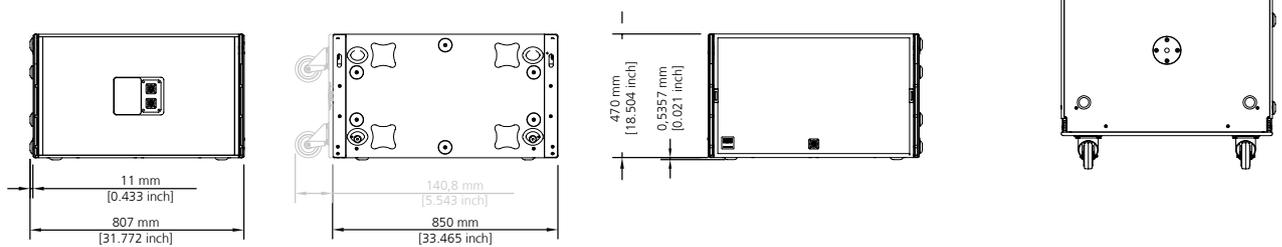
All measurements under free field conditions. Frequency patterns 1/6 octave averaged.  
The manufacturer reserves the right to make product alterations to improve product quality without prior notice. Errors excepted.

## Dimensions

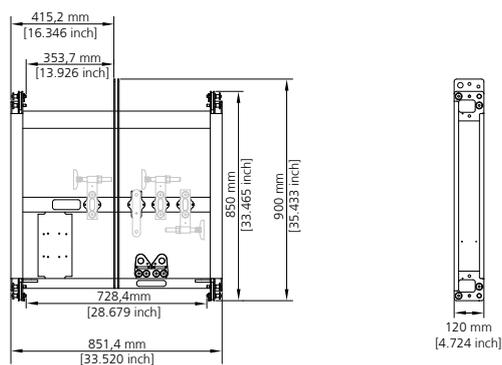
### SEQUENZA 10 N/W



### SEQUENZA 10 B



### SEQUENZA 10 Flying Frame



Weight of SEQUENZA 10 Flying Frame: 46 kg. Transport Cover with castors and the Groundstack Kit (grey) are optional accessories

## K&F CON:SEQUENZA

### Features

- Static and acoustic calculation of K&F SEQUENZA 5 and 10, and of numerous traditional Kling & Freitag speaker systems
- Bass and bass array simulation for many Kling & Freitag subwoofer systems
- Load simulation according to BGV C1 or DIN 18800
- Support of level calculation, time and frequency response, and other functions
- Calculation of loads, splay angles and mounting positions
- Auto splay function
- Coverage calculation of several arrays (maximum SPL) on different levels
- Frequency responses at discretionary positions
- Report of all important information, exportable as pdf
- Suitable for many standard operating systems:  
Windows XP® / Windows Vista® / Windows 7® / Windows 8®

