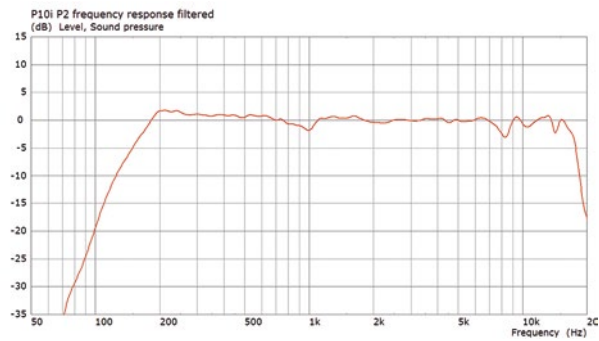
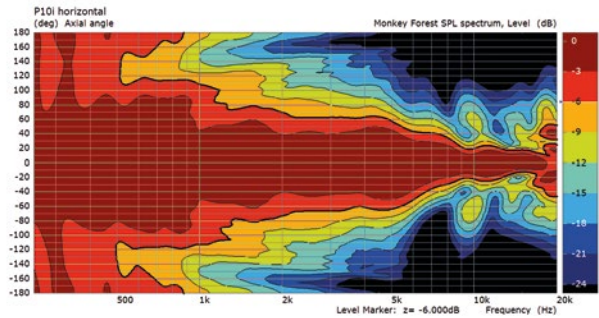


Electroacoustic measurements

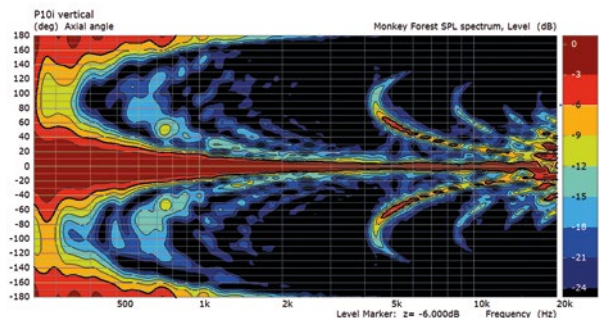
P10i



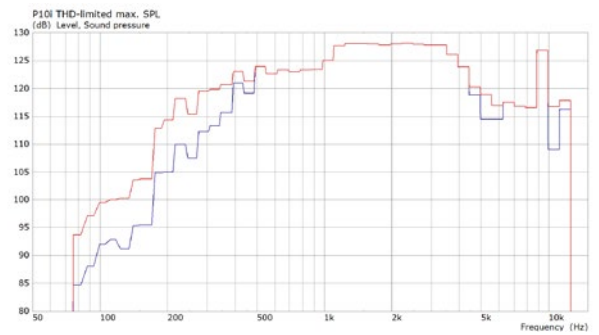
Frequency response (processed)



Horizontal directivity

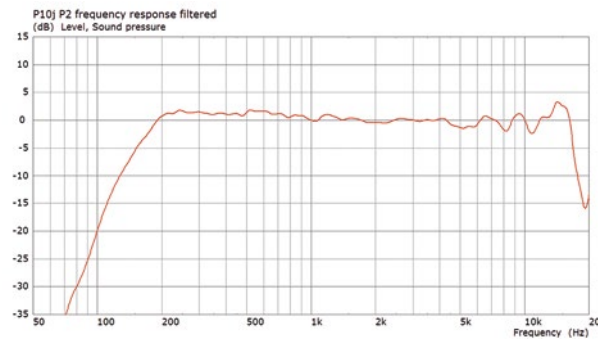


Vertical directivity

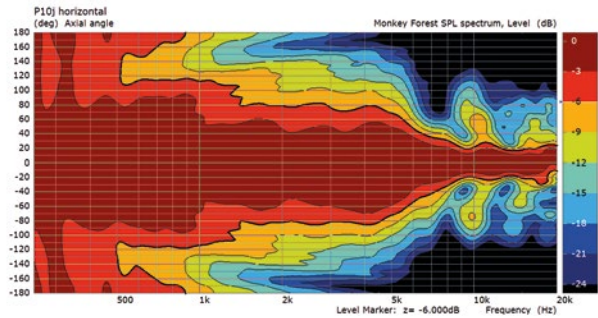


Max. SPL (blue = 3 % THD, red = 10 % THD)

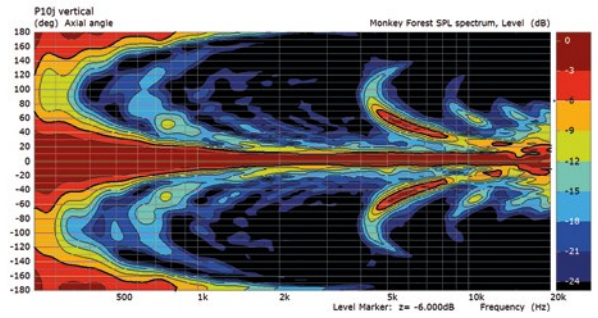
P10j



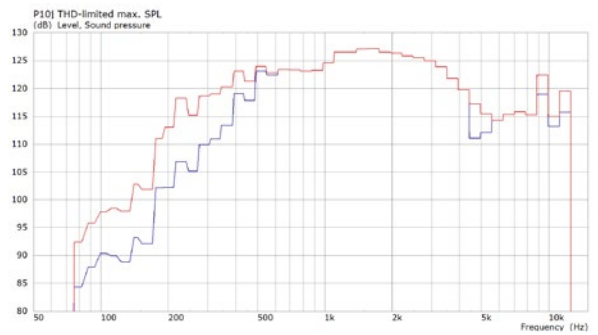
Frequency response (processed)



Horizontal directivity



Vertical directivity



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

Technical specifications

	P10i	P10j	P10i TR	P10j TR
Power-handling, nominal (RMS)	300 W	300 W	/	/
Power-handling, program	600 W	600 W	/	/
Power-handling, peak	1200 W	1200 W	/	/
Power tap 1 at 100 V	/	/	150 W	150 W
Power tap 2 at 100 V	/	/	75 W	75 W
Power tap 3 at 100 V	/	/	37,5 W	37,5 W
Sensitivity 1 W/1 m (full space)	97 dB (200 Hz - 10 kHz)			
Frequency response +/- 3 dB (processed)	155 Hz - 18 kHz			
Frequency response -10 dB (processed)	130 Hz - 19 kHz			
Max. SPL @ 10 % THD (EN 60268-21, full space)	128 dB	127 dB	125 dB	124 dB
Directivity (horizontal x vertical)	100° x 5° (symmetrical)	120° x 15° (asymmetrical, j-shaped)	100° x 5° ( symmetrical)	120° x 15° (asymmetrical, j-shaped)
Electrical impedance	16 ohms	16 ohms	175/85/43 ohms	175/85/43 ohms
Low/mid transducer	10 x 3" fullrange drivers with ferrite magnet and 0.8" voice coil			
DSP filters	Filters for Lab.gruppen IPD and Lake, Powersoft Armonia+ and filters in tabular form			
Connections	2 x 4-pole connectors			
Mounting points	24 x M5			
Cabinet material	Birch plywood			
Front grille	Ball impact resistant steel grille, powder coated, with acoustic fabric (dirt and water repellent)			
Finish	Two-component coating, black and white as standard, over 30 colors possible			
Protection class (IP code EN 60529)	IP 66			
Optional accessories	U-bracket, swivel and tilt bracket, rigging rail, pole support and ceiling mount			
Dimensions (W x H x D)	120 x 820 x 165 mm	120 x 820 x 165 (top) and 119 (bottom) mm	120 x 820 x 165 mm	120 x 820 x 165 (top) and 119 (bottom) mm
Weight	10.0 kg	9.8 kg	11.0 kg	10.8 kg



PROFESSIONAL



SI SERIES P10

VERSATILE INSTALLATION TOOLS

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## P10i/j (TR) – column loudspeakers designed for installations

## Mounting accessories



### Versatile Installation Tools

With the new **SI SERIES** – SI stands for **System Integrator** – HK Audio has unveiled a family of speakers tailored to meet the needs of today's installation market.

The **P10i** and **P10j** high-performance column speakers are the first products in the SI SERIES.

Working together with planners and installers, HK Audio engineers equipped these cabinets with the full complement of technical features, plenty of installation options and a host of handy hardware details. They are also designed to comply with all relevant and applicable standards.

The P10i and P10j come in **16-ohm versions** and alternative models featuring built-in, fully enclosed **100/70 V transformers** that can deliver up to 150 watts via three power taps.

The i and j versions of the P10 have different vertical directivities – 5° for the P10i and 15° for the P10j. The P10j's directional characteristic is **asymmetrical**. Its **j-shaped** pattern of throw is directed downwards, a function achieved exclusively by the speaker's design – that is, without an on-board DSP. The P10i's horizontal directivity is 100° and the P10j's is 120°.

With the drivers **arrayed in a line** and tuned for tight vertical directivity, P10i/j speakers are very well suited for large rooms with **long reverberation times** as well as for outdoor **long-throw applications**.

They accomplish both sound reinforcement tasks superbly, allowing excellent speech transmission index (**STI**) **values** and high quality **music** rendition in combination with subwoofers.

P10 speakers are loaded with ten 3" high-performance drivers. Custom-developed for HK Audio, they deliver up to **128 dB SPL**.

With a punch as assertive as this, the P10 speakers are an excellent choice for **noisy venues** such as sports facilities and foyers. And with the benefit of their remarkably **neutral response**, they are also ideally suited

for applications demanding high-quality music and speech reinforcement in venues such as auditoriums, presentation rooms, houses of worship, music clubs, and so on.

The **birch plywood** cabinet housing is laminated with waterproof adhesive and coated with a dual-component finish. The cover plate can easily withstand **direct jet streams of water**. With this weatherproofing, P10 enclosures are entirely suitable for outdoor use. A 4-pole connector serves to provide electrical power, whereby two PG glands are available for cable routing.

The **impregnated** speaker cloth and speaker cones protect components against the adverse **effects of weather**. P10s have all the features necessary for a protection class **IP 66** rating in accordance with **EN 60529**. A test report from TÜV Süd is available for this.

All P10 models are designed for use in voice alarm systems and slated for certification to **EN 54 24:2008** (type B outdoor use). The certification is expected to be completed by the end of 2020.

A full range of mounting accessories is available to quickly and safely install these speakers in any facility or outdoor area. Compliance with the German **DIN 18032-3** standard for ball impacts is certified. A test report or certificate of the MPA Stuttgart is available for this.

With more than 30 colors to choose from, the enclosures may be adapted to purpose in the factory – for example, to **match elegant interior designs** or comply with monument conservation regulations.

### U-bracket

The **factory-included** U-bracket serves to mount a single P10 speaker cabinet. The bracket's symmetrical keyhole openings accept both M6 and M8 mounting fixtures.

The bracket also features four attachment points that make it easier to bolt it to walls in a level position.

Even **multiple P10 setups** are easy to mount by simply attaching one on top of the other and fastening them with a connector plate so they may be swiveled as one.



### Swivel and tilt bracket

Swivel and tilt brackets serve to accurately aim individual speakers and multiple speaker setups towards the intended coverage areas.

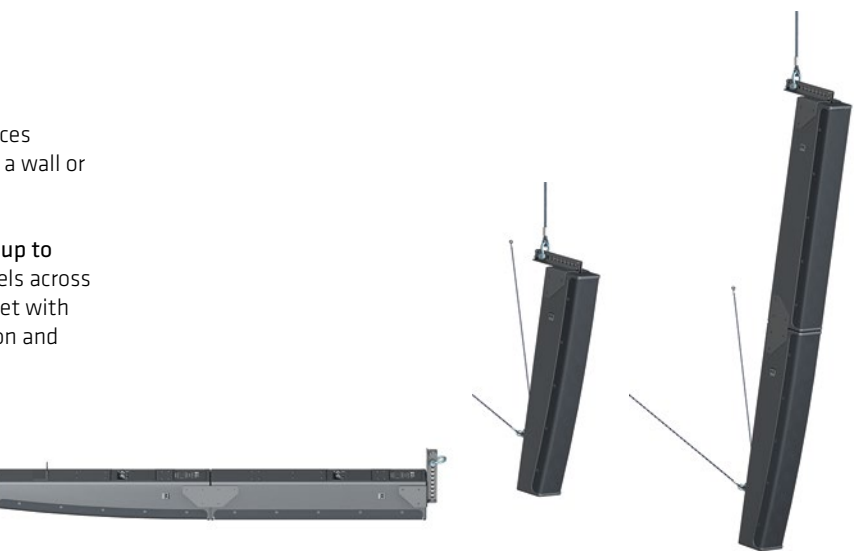
The adjustable tilt angle aligns speakers to provide satisfying sound reinforcement even in **acoustically challenging venues**, such as rooms with highly reflective facing walls.



### Rigging rail

P10 speakers may also be **flown** when circumstances dictate they be deployed at a great distance from a wall or if walls are unable to handle the load.

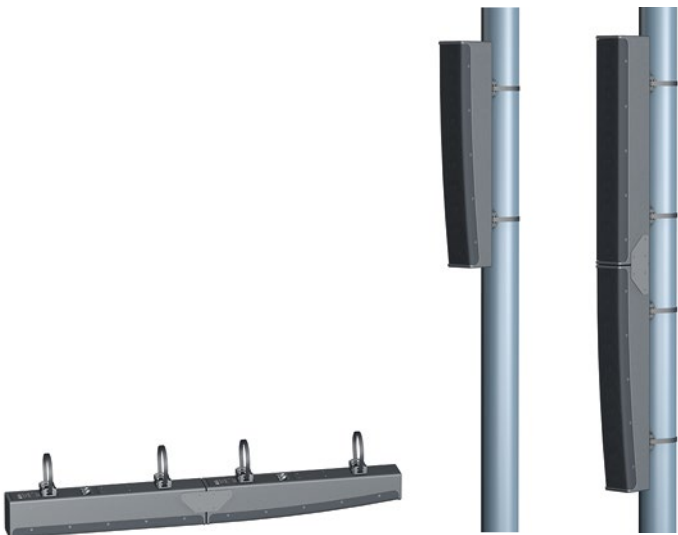
The rigging rail designated for this purpose holds **up to three speaker columns** to deliver high volume levels across long throw distances. A rear-mounted steel bracket with matching attachment points is available to tension and precisely align speakers.



### Pole support

Speakers often need to be mounted on poles, columns, masts or trusses. The P10 pole support serves this purpose.

Bolted to the housing, it provides a **suitable support** for poles or columns with standard diameters. Hose clamps or clips may be used to attach the mounts, a practical solution in **listed buildings** where drilling holes is not an option.

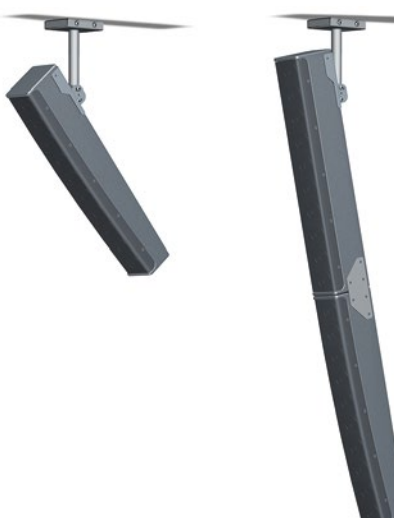


### Ceiling mount

A ceiling mount is available for attaching a speaker to the ceiling and aligning it with the audience areas below.

The cable is **concealed in the mount's tube**. Its wide-ranging swivel and tilt mechanism serves to achieve high-quality audio even in acoustically challenging rooms where speakers have to be placed very close to the audience area. This is the case in very loud and/or reverberant venues.

Despite its **small footprint** and low profile, the ceiling mount provides an excellent hardware solution for these applications.



### Transformers

All P10 loudspeakers are also available with high-quality, fully **encapsulated 100/70 V transformers**. The versions with the "TR" suffix are particularly well suited for applications with very long speaker cable runs, as the 100/70 V lines significantly **reduce line losses**. The P10j TR, for example, is equipped with this transformer.

It provides **three power taps** (37.5/75/150 W) via 4-pole connectors.

The transformer serves to deliver very high sound pressure levels, and that makes the P10i/j TR a great choice of speaker for **integrated (voice) alarm systems**.

