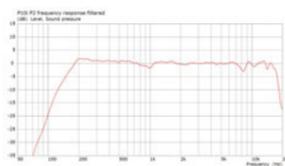
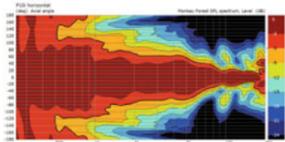


## Electroacoustic measurements

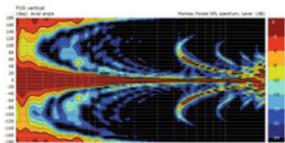
P10i



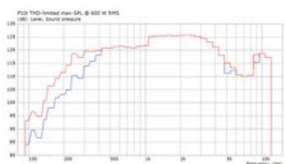
Frequency response (processed)



Horizontal directivity

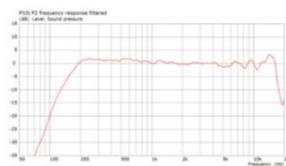


Vertical directivity

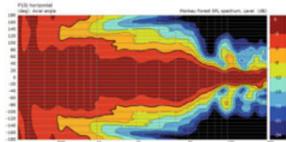


Max. SPL (blue = 3 % THD, red = 10 % THD)

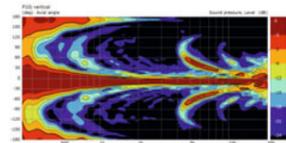
P10j



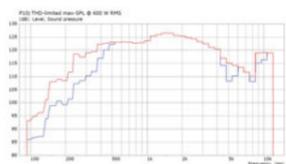
Frequency response (processed)



Horizontal directivity



Vertical directivity



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

## Technical specifications

	P10i	P10j
Sensitivity 1 W/1 m	97 dB (200 Hz - 10 kHz)	97 dB (200 Hz - 10 kHz)
Frequency response +/- 3 dB (processed)	155 Hz - 8 kHz	155 Hz - 18 kHz
Frequency response -10 dB (processed)	130 Hz - 19 kHz	130 Hz - 19 kHz
Max. SPL @ 10 % THD	123 dB (200 Hz-5 kHz)	123 dB (200 Hz-5 kHz)
Directivity (horizontal x vertical)	100° x 5° (symmetrical)	120° x 15° (asymmetrical, j-shaped)
Power handling, nominal	300 W	300 W
Power handling, program	600 W	600 W
Power handling, peak	1200 W	1200 W
Electrical impedance	16 ohms	16 ohms
Speakers	3" fullrange drivers	3" fullrange drivers
Connectors	2 x 4-pole	2 x 4-pole
Attachment points	24 x M5	18 x M5
Finish	2-component structured laquer, over 30 colors	2-component structured laquer, over 30 colors
Cabinet	Birch multiplex	Birch multiplex
Dimensions (W x H x D)	120 x 815 x 165 mm	120 x 815 x 165 (top) and 119 (bottom) mm
Weight	10 kg	9.8 kg

	P10i TR	P10j TR
Sensitivity 150 W/1 m	119 dB (200 Hz-10 kHz)	119 dB (200 Hz-10 kHz)
Frequency response +/- 3 dB (processed)	155 Hz - 18 kHz	155 Hz - 18 kHz
Frequency response -10 dB (processed)	130 Hz - 19 kHz	130 Hz - 19 kHz
Max. SPL @ 10 % THD	119 dB (200 Hz-5 kHz)	119 dB (200 Hz-5 kHz)
Directivity (horizontal x vertical)	100° x 5° (symmetrical)	120° x 15° (asymmetrical, j-shaped)
Power tap 1 at 100 V	375 W	375 W
Power tap 2 at 100 V	75 W	75 W
Power tap 3 at 100 V	150 W	150 W
Electrical impedances	175/85/43 ohms	175/85/43 ohms
Speakers	3" fullrange drivers	3" fullrange drivers
Connectors	2 x 4-pole	2 x 4-pole
Attachment points	24 x M5	18 x M5
Finish	2-component structured laquer, over 30 colors	2-component structured laquer, over 30 colors
Cabinet	Birch multiplex	Birch multiplex
Dimensions (W x H x D)	120 x 815 x 165 mm	120 x 815 x 165 (top) and 119 (bottom) mm
Weight	11 kg	10.8 kg

**FK**  
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**VERSATILE INSTALLATION TOOLS**

Preliminary Product Information  
New for Prolight+Sound

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Subject to change without notice  
MS D-3067\_9880941

## 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 **126 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 55** rating in accordance with **EN 60529**. They are to be certified by late 2019.

All **P10** models are designed for use in voice alarm systems and slated for certification to **EN 54 24:2008** (type B outdoor use). This is to be certified by late 2019.

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 to be certified by late 2019.

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.

Just **six parametric EQs** are needed to equalize the **P10i/j (TR)**'s frequency response, so they may be addressed via any market standard **PA/VA**.

### 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 **two 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.

The only visible difference is an additional mounting plate for the transformer on the rear of the housing. There is **no audible difference**. Made by a German manufacturer to HK Audio's specifications, this premium-quality transformer delivers an uncolored frequency response up to 20 kHz.

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**.

