

# PULSAR

Power & Balance



**HK AUDIO**

HK AUDIO PULSAR Series.

ENHANCE YOUR QUALITY OF

LIVE

Blame it on modern digital technology: These days there's a 1,000-watt class of compact, powered fullrange speakers that pump out surprisingly big, beefy bass, causing jaws down in the music shop to drop. But what about the old adage that says everything comes with a price attached? It'll be paid at your next gig. The low end that sounded so muscular in the store suddenly sounds feeble at higher volumes in the venue. And those thin mids are sure to torment every sound tech.

**The new PULSAR series was born of the need to push the boundaries of physics.**

Boosting the low end without sacrificing mids and the snappy attack needed for dynamic bass signals is no mean feat. But our HK AUDIO engineers managed to coax true fullrange performance out of PULSAR, creating an audio experience that's impressive in the store and nothing short of spectacular on stage.

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## Key Features & Benefits

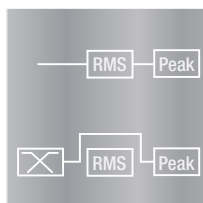
### 1000 W

650 Watts  
Bass

350 Watts  
Mid-Hi

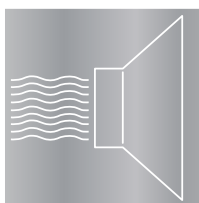
#### 1,000 Watts of Class-D Power

PULSAR fullrange models deliver a whopping 1,000 watts of total output power (Bass: 650 watts, Mid-Hi: 350 watts).



#### Intelligent Multi-band Limiter

Professional-grade limiter technology stabilizes midrange and high frequency response, even at massive low-end spikes.



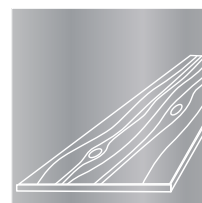
#### Advanced Speaker Cooling

Improved coil cooling prevents power compression and volume dips under prolonged peak loads.



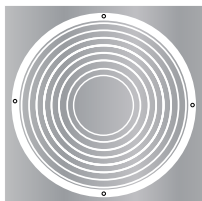
#### 90° Dispersion

The extra-wide sound field ensures optimum dispersion everywhere, including right in front of the stage.



#### Wood Cabinet

The low-vibration wood housing delivers greater sound pressure and a uniform sonic image from soft to loud.



#### Custom Loudspeakers

Pulsar woofers were designed specifically for these enclosures and tuned for optimum audio performance.



#### 3-Channel Mixer

Additional individually adjustable mic and CD player inputs are on board to handle smaller gigs without an outboard mixer.



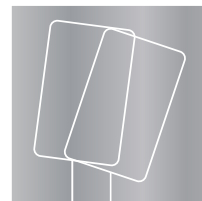
#### Active X-Over

Offering mono bass, stereo bass, half-stack and full-stack modes, the crossover built into the subwoofer feeds the filtered signal to the top units.



#### Multi-grip Handles

Carrying speakers is an exercise in comfort, convenience and safety with these professional-style handles.



#### DuoTilt Pole Mount

The DuoTilt pole mount serves to aim speakers accurately so audiences enjoy sweet sound all around.

## Technical Data



### PL 110 FA

58 Hz - 18 kHz

Max. SPL calc. 132 dB

10" woofer with a 1"-driver

Advanced Woofer Voice Coil Cooling

1,000 watts Class D – biamped

90° x 55° horn

2 EQ switches: Standalone / System  
and Flat / Contour

Undervoltage-Protection, Thermo-  
Protection, Short-Circuit Protection,  
Overcurrent-Protection

DSP-Controller

2 x XLR Combo IN ports,  
1 x Stereo Cinch IN, 2 x XLR-Thru,  
1 x XLR-Mix Out

(WxHxD) 34.3 x 49.1 x 37 cm

16 kg/35.5 lbs



### PL 112 FA

56 Hz - 18 kHz

Max. SPL calc. 133 dB

12" woofer with a 1"-driver

Advanced Woofer Voice Coil Cooling

1,000 watts Class D – biamped

90° x 55° horn

2 EQ switches: Standalone / System  
and Flat / Contour

Undervoltage-Protection, Thermo-  
Protection, Short-Circuit Protection,  
Overcurrent-Protection

DSP-Controller

2 x XLR Combo IN ports,  
1 x Stereo Cinch IN, 2 x XLR-Thru,  
1 x XLR-Mix Out

(WxHxD) 38 x 66 x 37 cm

19.7 kg/43.4 lbs

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### **PL 115 FA**

49 Hz - 18 kHz

Max. SPL calc. 135 dB

15" woofer with a 1"-driver

Advanced Woofer Voice Coil Cooling

1,000 watts Class D - biamped

90° x 55° horn

2 EQ switches: Standalone / System and Flat / Contour

Undervoltage-Protection, Thermo-Protection, Short-Circuit Protection, Overcurrent-Protection

DSP-Controller

2 x XLR Combo IN ports,  
1 x Stereo Cinch IN, 2 x XLR-Thru,  
1 x XLR-Mix Out

(WxHxD) 46.5 x 69 x 45.2 cm

25.7 kg / 56.7 lbs



### **PL 118 Sub A**

35 Hz - X-Over

Max. SPL calc. 130 dB

18" woofer

Advanced Woofer Voice Coil Cooling

600 watts Class D

Undervoltage-Protection, Thermo-Protection, Short-Circuit Protection, Overcurrent-Protection, Look Ahead Thermo-Management

Active X-over with 100 Hz/120 Hz frequency selector

Phase Reverse

2 x XLR Combo IN ports, 2 x XLR-Thru, 2 x XLR-Mid/High Out

M20 Pole Mount

Mounting hardware for casters  
100 mm

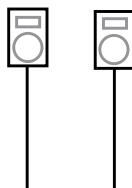
(WxHxD) 52.5 x 69 x 69.1 cm

40.5 kg / 89.3 lbs

## Standalone

PL 110 FA, FA PL 112 and PL 115 FA enclosures are able to cover the full frequency range, so they get the job done in style even without added subwoofers. And if you need to beef up the bass and tune the midrange for the best performance at high volumes, simply set these PULSAR cabinets' EQ presets to Standalone and Contour.

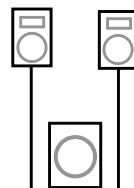
*Audience size: 50-100\**



## 2.1

One PL 118 Sub A's preamp is able to drive two cabinets in stereo. This bin's hybrid design pairs a bass reflex port with a resonator chamber to deliver massive bass with a snappy attack. Kick drums sound oh so tight and punchy. Stereo signals (L/R) patched into the input are converted to mono in the subwoofer. Best of all, the output levels of the two cabs and the sub remain beautifully balanced.

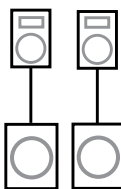
*Audience size: 100-150\**



## Half-Stack

This stereo bass setup featuring two half-stacks with one PL 118 Sub A each delivers more powerful low-end performance than the 2.1 system described below. Each can be paired with a PULSAR PL 110 FA, PL 112 FA or PL 115 FA cabinet, depending on your requirements. A pair of half-stacks provides a well-balanced sonic image at high volumes, yet takes up little truck space.

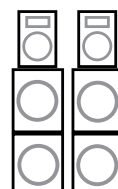
*Audience size: 200-350\**



## Full-Stack

With two stacked subwoofers per side, this setup packs plenty of headroom to render low frequencies with remarkable sound pressure. And with twice the half-stacks' speaker cone surface area and power output, these dual-full stacks move some serious air in the low-frequency range. Shaping a uniform sonic image is easy with the Configuration switch. And the PL 112 FA and PL 115 FA cabs are perfectly matched to this setup's SPL and acoustics.

*Audience size: 400-500\**



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\*About the audience size: The numbers are more for orientation rather than a definite recommendation. The actual coverage will depend on the room's size, shape, appointments and furnishings, the area that you want cover, and the input signal.

## Accessories



### TB-1

PULSAR (PL 112 FA, PL 115 FA) and LINEAR 5 (L5 112 F/FA, L5 115 F/FA) series fullrange speakers are easily retrofitted with this single-cab tilt bracket. Once installed, the TB-1 serves to attach the speaker to a truss using half-couplers or trigger clamps (M12).



### TB-2

The TB-2 is a retrofit for the PULSAR PL 110 FA fullrange cabinet. Like the TB-1, it serves to quickly attach the speaker to truss beams and the like, and aim it vertically and horizontally.



### AP-8

This attachment point has a workload limit (WLL) of 360 kg/794 lbs. It safely attaches enclosures with M8 rigging points to steel cables or chains.



### Tilt Unit

The Tilt Unit serves to properly position the cab on the subwoofer in full-stack configurations.



### M20 Pole Mount

Made of heavy-duty steel, this M20-threaded, adjustable pole mount holds speakers weighing up to 40 kg/88.2 lbs, extends from 80 to 150 cm, and weighs 2.3 kg/5 lbs.



### Monitor Poles

Monitor poles allow PL 112 and PL FA 115 FA cabinets to be used as stage monitors. The two poles are screwed into the rigging points on the sides of the housing and are quickly and easily removed for safe transport.



### Covers

Tailored, padded covers are optionally available for all PULSAR series models. Openings afford access to the enclosures' carrying handles. (Slated to ship in April 2014)



PL 110 FA



PL 112 FA



PL 115 FA



PL 118 Sub A

A graphic element on the left side of the page consisting of several overlapping triangles. A large, bright orange-to-yellow gradient triangle points downwards. Above it, a smaller, solid orange triangle points upwards. To the left of the large triangle, a white-outlined triangle points upwards. The word "PULSAR" is written in a white, stylized, sans-serif font, with the 'A' having a unique triangular cutout, positioned to the right of these geometric shapes.

# PULSAR

The power to sound bigger -  
the balance to sound better

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