

ARA

S E R I E S



ARA-P28.74

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 15/10/2024



SOUND WITH SOUL

KEY FEATURES

- Self-powered point source system.
- 2-channel Class D amplifier, 1200Wrms.
- 96kHz FIR processing.
- Control, monitoring, and EQ via IP through ALMA™.
- 2 x 8" (8GXN) + Compression driver, 3" VCD M78N)
- Latest generation transducers with Neodymium.
- 70° x 40° (H x V) dispersion, rotatable horn.

DESCRIPTION

The ARA-P28.74 is a point source system that combines technical innovation with acoustic precision. Featuring a dual 8-inch speaker configuration, this model delivers a comprehensive frequency range from 70 Hz to 17 kHz. Its rotatable horn provides a horizontal coverage of 70° and vertical coverage of 40°, the ARA-P28.74 ensures uniform sound dispersion, ideal for medium to long throw applications in various settings.

Equipped with a powerful class D amplifier with universal mains switching power supply, the ARA-P28.74 offers a continuous power rating of 1200 W, with peak capabilities reaching 2400 W (1600 W for low frequencies and 800 W for high frequencies). This system boasts a maximum linear SPL of 137 dB and a peak SPL of 140 dB, ensuring powerful performance in any environment.

The advanced electronics of the ARA-P28.74 include a 96kHz sampling rate with an intuitive ALMA control interface for precise sound management. One system, one brain; each ARA-P28.74 includes a unique processing input channel working at 96kHz with 10 EQ points and a total delay of 823ms, translating to 283 meters, enhancing its versatility in system setup. The power module's DSP platform features specially designed Finite Impulse Response filters (FIR) for acoustical flat magnitude and phase response, allowing a coherent combination with other units of the ARA series, like the LARA / SARA line arrays.

At the heart of the ARA-P28.74 are our custom-manufactured transducers, the 8GXN, equipped with a neodymium magnet and a 2.5" Voice Coil Diameter (VCD). These transducers are crafted for exceptional long displacement capabilities and minimal distortion. Complementing this is the M78N compression driver, identical to those utilized in the ARA series line arrays. With a 3-inch VCD, the M78N is adept at producing crisp, clear high frequencies, contributing to the overall rich and detailed audio experience the ARA-P28.74 offers.

Designed with versatility in mind, the ARA-P28.74 comes equipped with M10 rigging points, accommodating a vast array of accessories. This adaptability makes it perfect for a wide range of venues, configurations and uses.

ARA-P28.74

SPECIFICATIONS

Performance

| | |
|---------------------------------|----------------|
| Frequency Range (-10 dB) | 70 Hz - 18 kHz |
| Horizontal Coverage (-6 dB) | 70° |
| Vertical Coverage | 40° |
| Maximum Linear SPL ¹ | 134 dB |
| Maximum SPL ² | 140 dB |

1. Measured Maximum Linear SPL at 1m according to AES75 standard using 18dB crest factor M-Noise.

2. Measured Maximum SPL at 1m using burst noise.

Electronics and Connectors

| | |
|---|-----------------|
| Nominal Amplifier Power (continuous) | 1200 W |
| Nominal Amplifier Power LF (continuous) | 800 W |
| Nominal Amplifier Power LF (peak) | 1600 W |
| Nominal Amplifier Power HF (continuous) | 400 W |
| Nominal Amplifier Power HF (peak) | 800 W |
| Input Type | Balanced Analog |
| Input Impedance | 20 kohms |
| Input Sensitivity | 6.2 V (+18 dBu) |
| Audio Signal Input Connector | 1 x Female XLR |
| Audio Signal Loop Thru Connector | 1 x Male XLR |
| Audio/Data Input Connector | etherCON |
| Control | ALMA |
| Audio + Data Loop Thru Connector | etherCON |
| AC Output Connector | powerCON TRUE1 |

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| | |
|----------------------------|-------------|
| Current Draw 230 V / 115 V | 1.8 A/3.6 A |
|----------------------------|-------------|

| | |
|---------------|-------|
| Sampling Rate | 96kHz |
|---------------|-------|

Enclosure

| | |
|------------------------|---------------|
| Enclosure Construction | Birch Plywood |
|------------------------|---------------|

| | |
|--------------------|----------------|
| Enclosure Geometry | Trapezoidal 5° |
|--------------------|----------------|

| | |
|---------|--------------------|
| Rigging | M10 Rigging Points |
|---------|--------------------|

| | |
|--------|----------------|
| Finish | ISO-flex Paint |
|--------|----------------|

| | |
|-------|-------|
| Color | Black |
|-------|-------|

| | |
|-----------|------|
| IP Rating | IP43 |
|-----------|------|

| | |
|--------------------------|---|
| Dimensions (H x W x D) | 610 x 265 x 405 mm 24,0 x 10,5 x 16,0 in |
|--------------------------|---|

| | |
|------------|---------------------|
| Net Weight | 23,4 kg (51,5 lb) |
|------------|---------------------|

Components

| | |
|-----------|------|
| LF Driver | 8GXN |
|-----------|------|

| | |
|-----------|-------|
| HF Driver | M-78N |
|-----------|-------|

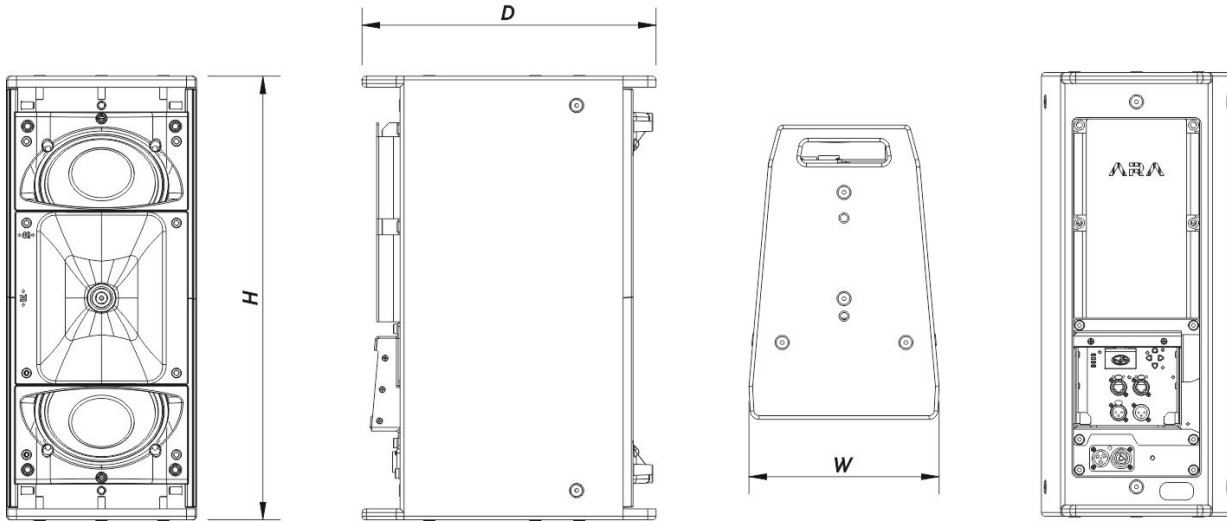
DIMENSIONS

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ORDERING INFORMATION

| Model | Description | P/N |
|--------------------------|------------------------------|----------|
| System | | |
| ARA-P28.74 | | 10420540 |
| Replacement Parts | | |
| 8GXN | Cone Transducer | 20208988 |
| GM-8GX | Recone Kit | 20208538 |
| GM-M75N | Diaphragm | 20205080 |
| M-78N | Compression Driver | 20208860 |
| Accessories | | |
| ANL-2 | Rigging Accessories | 10101020 |
| AX-SPG1 | Installation & Stacking Acc. | 10105050 |
| AX-SPG2 | Installation & Stacking Acc. | 10105060 |

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| | | |
|------------|------------------------------|----------|
| AX-TRM8 | Installation & Stacking Acc. | 10105061 |
| AXC-AT | Installation & Stacking Acc. | 10104310 |
| AXC-ATSPG | Installation & Stacking Acc. | 10105150 |
| AXC-ZT | Installation & Stacking Acc. | 10104320 |
| AXC-ZT3 | Installation & Stacking Acc. | 10104327 |
| AXF-X8 | Installation & Stacking Acc. | 10104832 |
| AXR-AR5 | Installation & Stacking Acc. | 10104870 |
| AXU-AP28 | Installation & Stacking Acc. | 10105151 |
| EC-09 | Electronic Accessories | 20502110 |
| EC-20 | Electronic Accessories | 20502130 |
| ECPK-20 | Electronic Accessories | 20502180 |
| ECPK-5 | Electronic Accessories | 20502100 |
| FC-ARAP28 | Transport Accessories | 10116130 |
| JP-AP2815 | Rigging Accessories | 10102962 |
| MATRIX-22 | Ara Series | 11106140 |
| PLINK1-09 | Electronic Accessories | 20502150 |
| PP-4 | Ara Series | 11106150 |
| TRD-2-PACK | Installation & Stacking Acc. | 10104012 |
| TRD-6 | Installation & Stacking Acc. | 10104470 |
| TRD-7 | Installation & Stacking Acc. | 10104471 |

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