

R2-S653

R-Series 2022 – 3-Way High Performance PRO Series Speaker



General



Powerful Bass with High Clarity

Meet the 3rd generation of R-Series speakers: engineered to deliver high bass power while maintaining extreme sound clarity. The R-Series speakers include both component and coaxial models. You can even choose from a Professional (PRO series) and Standard speaker line to fit your desired sound quality and budget.



Glass-Fiber Reinforced Cone

The door woofer and the mid-range speaker feature all-new glass-fiber reinforced cones. This material is very durable and extremely light-weight, resulting in a super-fast response and highly accurate music reproduction.



H.A.M.R. Surround

Alpine's H.A.M.R. Surround (High-Amplitude-Multi-Roll) allows for a maximum cone excursion, while maintaining excellent control. This results in strong bass at high volumes without distortion.



Die-Cast Aluminium Basket and Large Magnets

The PRO models (R2-S635 and R2-S652) feature high-quality aluminium baskets – resulting in high durability and can carry heavier magnets without warping. This allowed us to fit larger magnets than in previous generations (while maintaining the same mounting depth).



Flexible PRO X-Over Network

This large-size crossover network includes many high-quality components selected for best sound quality. You can adjust the mid-range speaker and tweeter speaker level by -3dB / 0dB / +3dB.



Easy-Fit Tweeter in OEM Locations

You can easily remove the installation frame and the trim ring of the R-Series tweeter to minimize its overall size and diameter. The tweeter itself is then small enough to fit it in many OEM tweeter locations (inside A-pillars, mirror triangles or door panels) for a stealthy installation. The component and coaxial models include a mounting frame that features the well-known swivel mechanism to reduce phase problems at non-optimal mounting positions.



Specifications

General

- 16,5 cm (6,5") component 3-way PRO series speakers
- 16,5 cm (6,5") Glass Fiber Reinforced woofer
- 9,7 cm (3,8") Glass Fiber Reinforced midrange
- 2,5 cm (1") Magnesium Hard-Dome tweeter
- High-quality black speaker grills in hexagon design, which do not increase the overall speaker installation diameter
- Various mounting adapters for the tweeters included in package
- Ferrite magnet and 35 mm voice coil for higher bass performance as well as less distortion
- Improved bass performance due to H.A.M.R. Surround
- Die-Cast aluminium baskets for maximum stability
- Tweeter/midrange level reduction in crossover 0, -3, -6 dB

Tweeter

- Tweeter design: 2,5 cm (1") Magnesium Hard-Dome tweeter
- Hi-Res Audio Certified with up to 40kHz frequency response
- Large aluminium voice coil and neodymium magnet
- Swivel Application (mounting ring included)
- Flush-mount / On-dash mounting options

Midrange / Woofer

- Glass Fiber Reinforced cone
- Linear Drive technology
- H.A.M.R. Surround
- Large aluminium voice coil
- Aluminium square wire for transferring high amplifier power
- Ferrite magnet
- Hexagon cover grille with maximum basket size
- Mounting adapter kit included

Technical Data

- Peak power: 300 Watt
- RMS power: 100 Watt
- Woofer mounting diameter: 135,2 mm
- Woofer mounting depth: 62,6 mm
- Woofer total height (without grille): 74,7 mm
- Midrange mounting diameter: 73 mm
- Midrange mounting depth: 36,1 mm
- Tweeter mounting diameter: 43 / 51 mm
- Tweeter mounting depth: at least 16,6 mm
- Frequency response: 65 Hz - 40 kHz
- Impedance: 4 Ohm
- Sensitivity: 88 dB/W (1m)

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Technical drawings of the R2000 20W LED downlight showing various views and dimensions in millimeters (mm) and inches (in).

Top View:

- Outer Diameter: $\Phi 165\text{MM}$ (6-1/2")
- Inner Diameter: $\Phi 160.8\text{MM}$ (6-11/32")
- Height: 108.9MM (4-9/32")
- 4- $\Phi 4.5\text{MM}$ HOLE (3/16")

Bottom View:

- Outer Diameter: $\Phi 92.6\text{MM}$ (3-1/2")
- Inner Diameter: $\Phi 96\text{MM}$ (3-1/2")
- Height: 61.5MM (2-7/16")
- 4- $\Phi 4\text{MM}$ HOLE (5/32")

Side View:

- Height: 21.3MM (27/32")
- Width: 61.5MM (2-7/16")

Front View:

- Height: 8.5MM (11/32")
- Width: 51MM (2")
- Depth: 17.6MM (11/16")

Back View:

- Height: 8MM (5/16")
- Width: 60MM (2-3/8")

Top View (Detail):

- Outer Diameter: $\Phi 58\text{MM}$ (2-1/4")

Bottom View (Detail):

- Outer Diameter: $\Phi 92.6\text{MM}$ (3-1/2")

Front View (Detail):

- Height: 12.1MM (1/2")
- Width: 7MM (1/4")
- Depth: 62.6MM (2-1/2")
- Inner Diameter: $\Phi 100\text{MM}$ (3-15/16")
- Outer Diameter: $\Phi 135.2\text{MM}$ (5-3/8")

Back View (Detail):

- Height: 8.7MM (11/32")
- Width: 6MM (1/4")
- Depth: 36.1MM (1-7/16")
- Inner Diameter: $\Phi 60\text{MM}$ (2-3/8")
- Outer Diameter: 73MM (2-7/8")

Front View (Detail):

- Height: 98.5MM (4")
- Width: 142MM (5-1/2")

Back View (Detail):

- Height: 37.2MM (1-1/2")

Front View (Detail):

- Height: 800MM (31-1/2")
- Width: $\Phi 43\text{MM}$ (1-3/4")
- Black stripe

Back View (Detail):

- Height: 16.6MM (5/8")