



# AS-10T

## SURFACE MOUNT LOUDSPEAKER

### TECHNICAL DATA SHEET



#### PRODUCT SUMMARY

The AtlasIED AS-10T is a high performance, two-way Surface-Mount weather resistant loudspeaker boasting an exceptional performance-to-size ratio for distributed sound reinforcement applications where durability, modern, understated aesthetics, and outstanding sonic performance are prerequisites.

Featuring a high excursion 10" woofer, seamlessly transitioning to a 1" exit compression driver, the AS-10T delivers a consistent and accurate broadband frequency response, both on and off axis.

Available in textured black or white, the outstandingly durable and scuff resistant, high impact ABS enclosure with UV inhibitor is weather resistant (IP55), for consistent performance in adverse conditions, both indoors and out.

Safe and effective Installation of the AS-10T is made simple by way of the included slip free yoke mount.

Equipped with a low insertion loss 120W transformer for 70V or 100V distributed applications, wattage tap selection and low impedance bypass is easily configurable via a rear mounted slide selector switch with security cover.

The AS-10T has been sonically matched with the wider range of AS Series models, this allows consistency in installations where there is a mix of products used.

For the most discerning designers and integrators, a complete suite of EASE™ (including compatibility with EASE Focus), CF2, 3D CAD, and BIM/Revit families are available for download at [AtlasIED.com](http://AtlasIED.com).

#### KEY FEATURES

- Minimalistic and clean industrial design for sensitive architectural constraints
- Effective coverage for systems with space limitations
- Extremely consistent horizontal off axis performance
- Ultra-low insertion loss 120W transformer for dynamic performance in distributed systems
- High impact ABS enclosure with UV inhibitor
- IP55 rated
- Slip-Free yoke mount supplied. Compatible with VESA™ mounts
- Advanced tunings available via AtlasIED Atmosphere DSP platform

#### APPLICATIONS

- Bars & Restaurants
- Hotels, Casinos & Cruise Ships
- Retail
- Houses of Worship
- Education
- Themed Attractions
- Transportation
- Corporate & Business
- Museums & Courthouses
- Live Music Clubs



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#### AUDIO SPECIFICATIONS / PERFORMANCE

SYSTEM	AS-10T
Type	Two-Way, Full Range, Surface Mount Loudspeaker
Frequency Range (-10dB) <sup>1</sup>	45Hz <sup>6</sup> -20kHz
Frequency Response (+/- 3dB) <sup>1</sup>	58Hz-18kHz
System Sensitivity (1W @ 1m) <sup>2</sup>	93dB
Nominal Coverage Angle (HxV -6dB)	100° x 90°

#### POWER HANDLING<sup>3</sup>

Average	240W
Programme	480W
Peak	960W
Recommended Amplifier Power	480W @ 8 Ohms
Nominal Impedance	8 Ohms (Min 8.15 Ohms)

#### RATED MAXIMUM SPL<sup>4</sup>

Average	117dB
Peak	123dB
With Max. Transformer Tap - Average	114dB
Transformer Taps- via slide selector switch	120W, 60W, 30W, 15W ( 7.5W 70V) & Low Z operation
Directivity Index (dB) <sup>5</sup>	8.5

#### TRANSDUCERS

Low Frequency	10" (250mm) Weather Treated Paper, Fabric Double Roll Surround
High Frequency	25 mm (1 in) exit compression driver, PPT Protection

#### PHYSICAL

Enclosure	High Impact ABS UL-V0
Grille Material	Aluminum, Powder Coated
Connectors	Euroblock with screw connections and loop output
Safety Agency Rating	CE
Ingress Protection	IP55
Operating Temperature	-40°F to 140°F (-40° C to 60° C)
Environmental Testing	Conforms to MIL-STD-810 for salt spray & humidity
Included Accessories	Slip Free U-Bracket
Optional Accessories	
Packed Quantity	1
Product Dimensions (HxWxD)	23.4" x 12.25" x 11.74" (594.4mm x 311.2mm x 298.2mm)
Shipping Dimensions (HxWxD)	28.7" x 18.9" x 18.1" (73cm x 48cm x 46cm)
Net Weight - (per unit)	35.63lbs (16.16kg)
Shipping Weight	49.45 lbs) (22.43kg)

#### Notes:

1 - Average over stated bandwidth, full space

2 - Unweighted pink noise input, measured at 1 meter on axis

3 - Long term power handling capacity as defined in EIA - 426B test

4 - Calculated from rated noise power and sensitivity

5 - 1k-10kHz average

6 - Recommended High-Pass (24dB/Oct)

A full range of measurements, performance data, Ease™ and CLF Data can be downloaded from [www.atlasied.com](http://www.atlasied.com).

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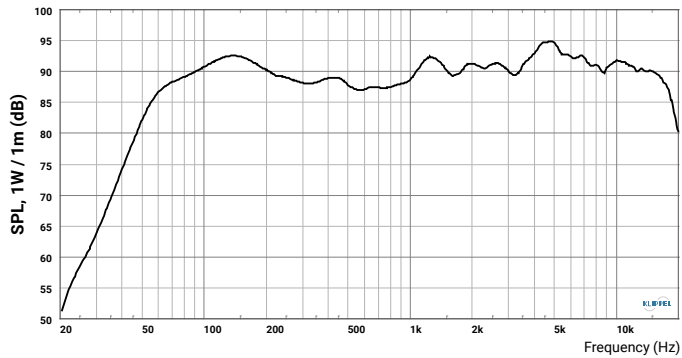


### TECHNICAL DATA SHEET

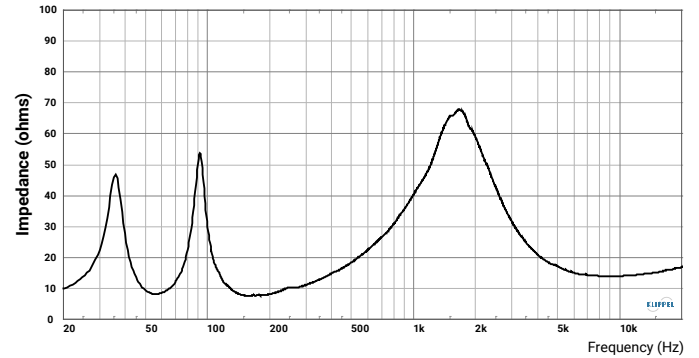
#### PERFORMANCE MEASUREMENTS



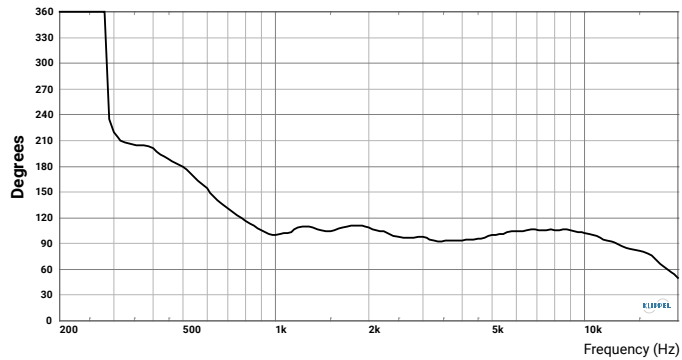
1m On-axis Frequency Response



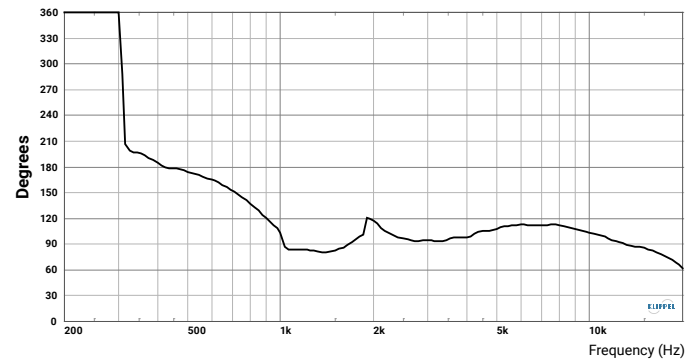
Impedance vs. Frequency



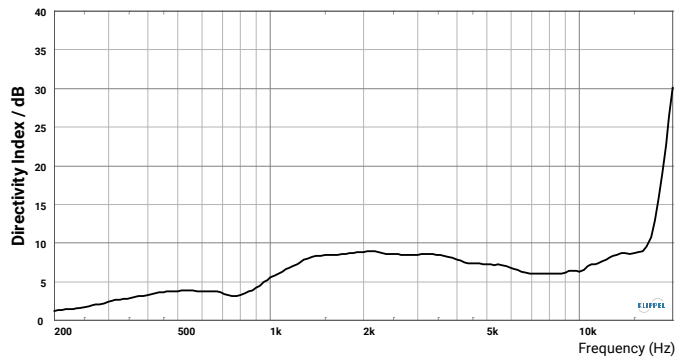
Horizontal Beamwidth



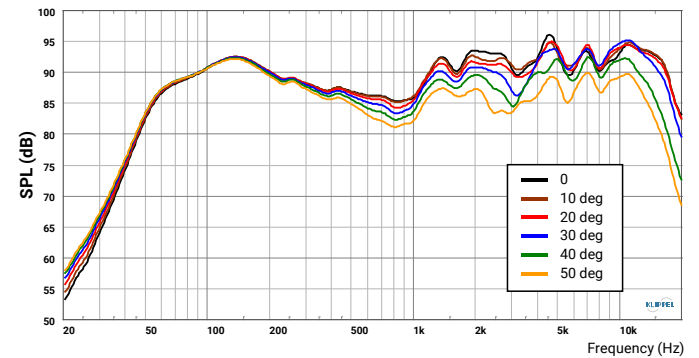
Vertical Beamwidth



Directivity Index



Frequency Response, Horizontal



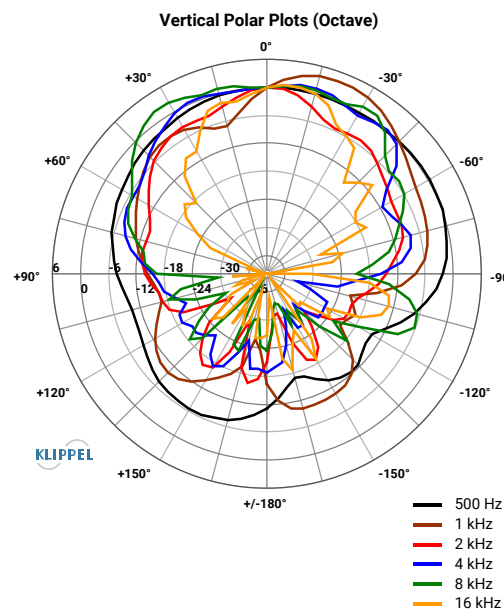
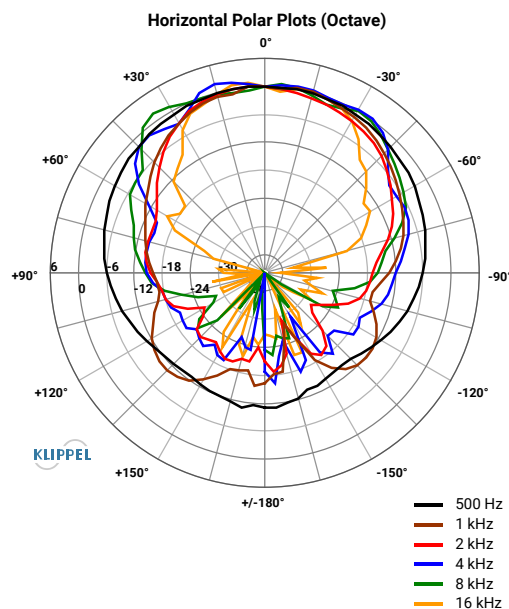
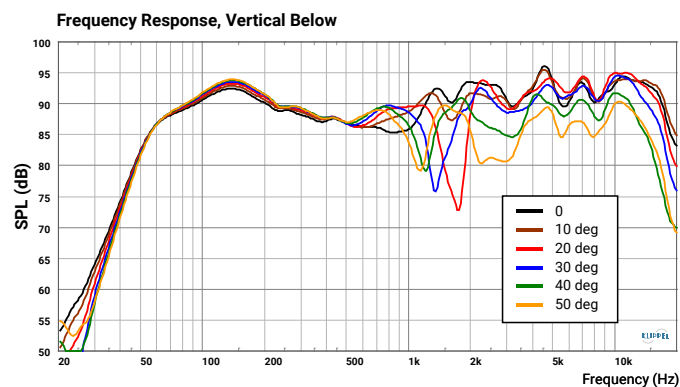
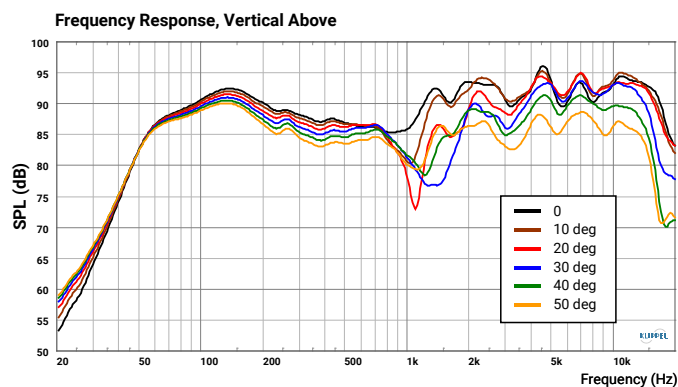
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#### PERFORMANCE MEASUREMENTS



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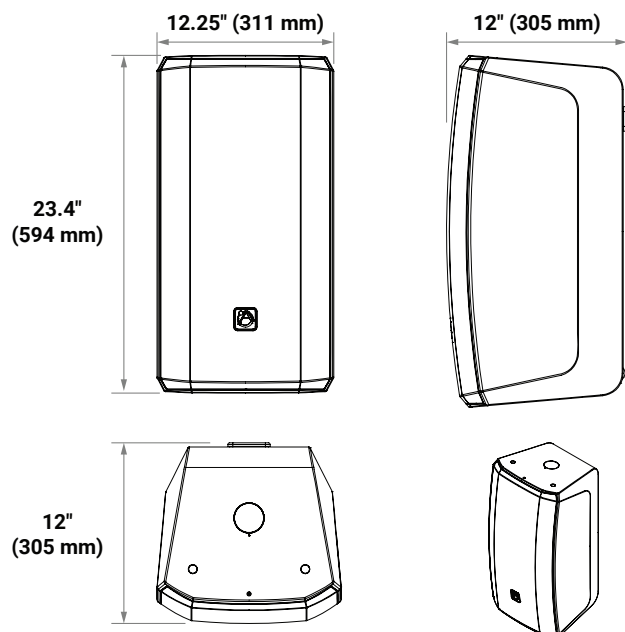
### TECHNICAL DATA SHEET

#### DIMENSIONAL DRAWINGS

##### PRODUCT DIMENSIONS

*Without Bracket*

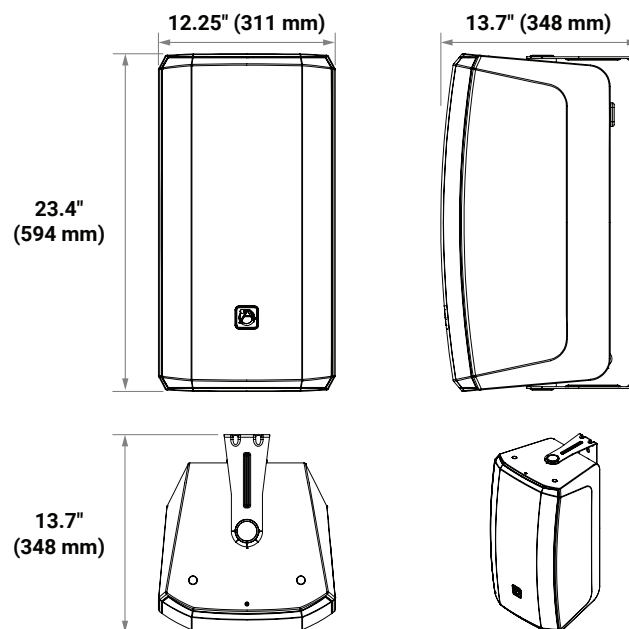
Height	23.4" (594mm)
Width	12.25" (311mm)
Depth	12" (305mm)



##### PRODUCT DIMENSIONS

*With Bracket*

Height	23.4" (594mm)
Width	12.25" (311mm)
Depth	13.7" (348mm)



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#### ARCHITECT AND ENGINEER SPECS

The loudspeaker shall be of a two-way surface-mount design with an internal passive crossover and a 120W low insertion loss 70/100V transformer for use in constant voltage distributed lines. A 10-inch weather treated paper cone woofer with fabric double roll surround, and 1-inch horn loaded exit compression driver with resettable PPT protection shall be housed in a proprietary injection molded ABS, UV fade resistant enclosure. The enclosure shall exceed IEC60529 IP-55 ratings for dust and splash resistance, and Mil STD 810G for salt and humidity. Incorporated is a sealed input panel cover, and powder-coated aluminum grille. The loudspeaker color shall be either RAL 9016 (white) or RAL (9017) black. The unit shall ship with a slip free u-bracket that is powder coated in the same color as the enclosure.

The loudspeaker shall comply with the following safety standards; CE.

The loudspeaker shall meet the following performance specifications: On-axis system frequency range shall be 45 Hz to 20 kHz (-10 dB). The broadband sensitivity shall be 93 dB (2.83 V at 1m) SPL in full-space environment with recommended high-pass protection. The long-term power handling rating shall be 240W as defined in EIA-426B. The maximum continuous output shall be 117 dB SPL and the maximum peak output shall be 123 dB SPL. The nominal coverage pattern shall be 100 degrees horizontal, and 90 degrees vertical. The transformer shall have power taps 120W, 60W, 30W, 15W, (7.5W 70V), plus an 8-ohm bypass, selectable using a slide switch on the rear of the enclosure. The loudspeaker Euroblock input connections shall allow for direct connection to 70-volt, 100-volt, or low-impedance amplifiers.

The loudspeaker outer dimensions shall be 23.4" x 12.25" x 11.74" (594.4mm x 311.2mm x 298.2mm) and the unit net weight shall be 35.63lbs (16.16kg)

The warranty shall be 5 years. The loudspeaker shall be the AtlasIED AS-10T surface mounted loudspeaker.