



**AcousticDesign™ Series  
AD-S6T**

6.5" small format, surface  
mount loudspeaker

**Features**

- DMT™ (Directivity Matched Transition) ensures smooth, uniform frequency response over the coverage area
- X-Mount™ system enables the loudspeaker to be easily installed and deployed at a variety of angles without slipping over time
- Advanced voicing filter sets using QSC Intrinsic Correction™ available through either Q-SYS processing or CXD Series amplifier platforms
- Low saturation and low loss 70/100V transformers with 8Ω bypass
- Lightweight ABS enclosures offer long-term durability and lasting good looks
- Sealed input panel cover and powder coated aluminum grilles for added weather resistance
- Meets IEC60529 IP-54 for dust and splash resistance
- Available in black (RAL 9011) or white (RAL 9010)
- Complete EASE, CAD & BIM information available online



X-Mount™ (included)

**Restaurant · Retail · Audio Visual · Education · Concourses · Casinos ·  
Transportation Terminals · Worship Facilities · Large System Ancillary Support**

The QSC AcousticDesign™ AD-S6T is a surface mounted 70/100V, 6.5" two-way loudspeaker system, ideally suited for a wide variety of foreground and background sound reinforcement applications.

AcousticDesign™ series offers integrators a premium quality installed sound solution where performance, coverage, and aesthetics are paramount. Combined with unprecedented ease-of-installation and high weather resistance, the AcousticDesign™ Series provides integrators a versatile and confident response.

The AD-S6T features a high quality 6.5" weather treated paper cone woofer on a 1.5" voice coil. A carefully selected 1" silk dome tweeter with a 1" voice coil perfectly matches the sensitivity and performance of the woofer for outstanding full range reproduction.

Consistent and even 105° axisymmetric (conical) coverage is realized by means of DMT™ (Directivity Matched Transition). This innovation matches the high frequency waveguide to the woofer coverage at the crossover point, resulting in a coherent transducer transition and improved off axis response.

To maintain this frequency response, the AD-S6T utilizes a variable tap 60 watt low saturation and low loss 70/100V transformer with 8Ω bypass, accessible via a rotary selector located on the enclosure back under a weather grommet for improved weather resistance.

All AcousticDesign™ Series surface-mount loudspeakers are housed in rugged ABS enclosures for long-term durability. Sealed

input panel covers and powder coated aluminum grilles add weather resistance, exceeding IEC60529 IP-54 for dust and splash resistance.

Installers will appreciate the award winning X-Mount™ system, included with each full range AcousticDesign™ model. This ingenious mounting solution achieves unprecedented ease-of-installation in either horizontal, vertical, wall, or ceiling deployments. Knurled surfaces at the pivot planes ensure the load will not drift or sag over time. Articulation marks allow preconfiguration of the X-Mount™ while on the ground with no special tools required. Once secure, the loudspeaker installs in seconds, allowing the installer to work safer, smarter, and faster with repeatable results.

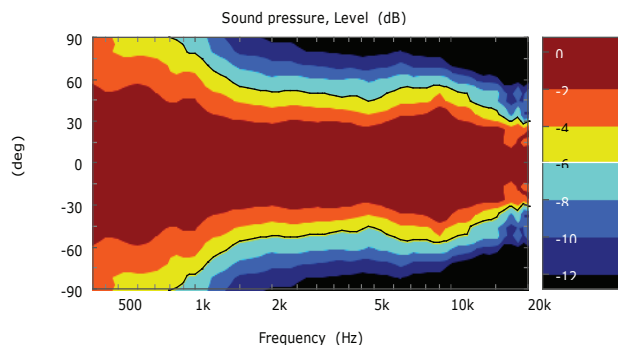
To further enhance performance and speed of install with optimum result, advanced voicing filter sets using QSC Intrinsic Correction™ techniques are obtainable using the Q-SYS Platform including CXD Series amplifiers for a complete QSC systems solution.

Sensitive to aesthetic demand, the AcousticDesign™ Series feature a stylish appearance free of obtrusive logo adornments. Complimenting adjacent product families, AcousticDesign™ surface loudspeakers are available in QSC standard black (RAL 9011) or white (RAL 9010) and may be painted to match any decor.

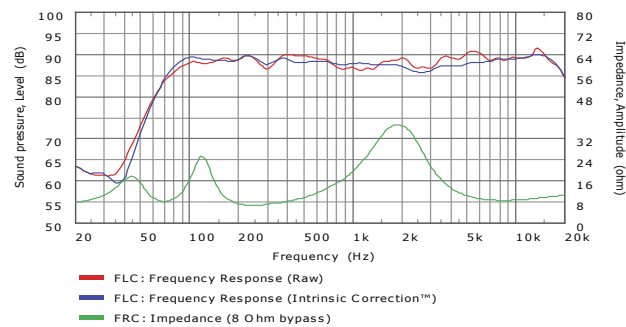
To assist in successful systems integration, complete EASE, CAD, and BIM files are available for online download at QSC.com.

# AD-S6T Details

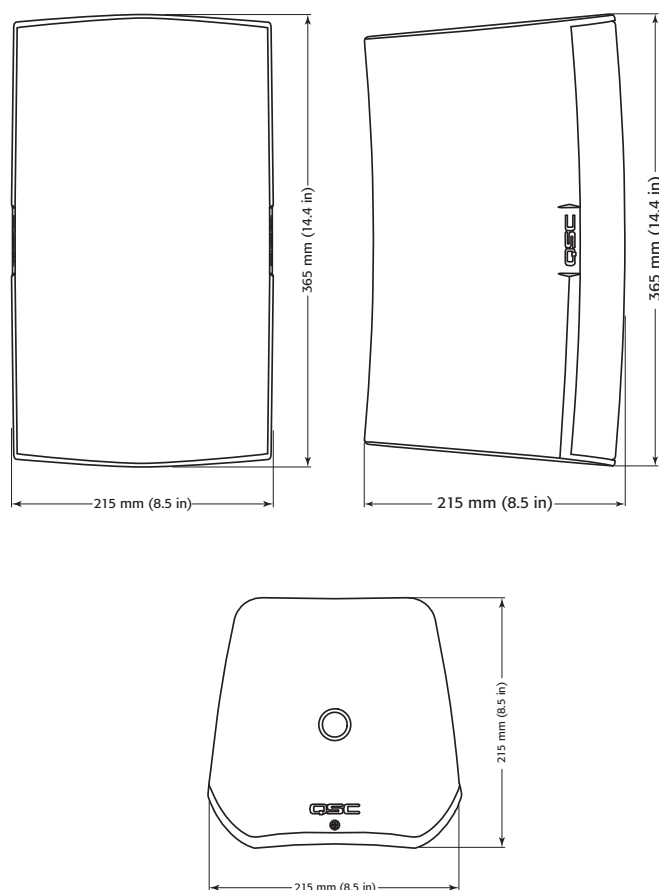
## Horizontal Contour:



## Impedance / Frequency Response:



## Dimensions:



## Specifications:

System Details	AD-S6T
HF transducer	1" silk dome tweeter / 1" voice-coil horn loaded
LF transducer	6.5" weather treated paper cone woofer, 1.5" / 38mm voice-coil
Effective frequency range <sup>1</sup>	60 – 20k Hz
Rated noise power / voltage <sup>2</sup>	150 watts / 35 volts (rms)
Broad-band sensitivity <sup>3</sup>	89 dB SPL
Coverage angle (-6 dB)	105°
Directivity factor (Q)	5
Directivity Index	7 dB
Maximum continuous SPL <sup>4</sup>	110 dB
Maximum peak SPL <sup>4</sup>	116 dB
Rated impedance	8 ohms
Recommended amplifier power	300 watts
Transformer taps	70V: 60, 30, 15, 7.5 watts and 8 ohm bypass 100V: 60, 30, 15 watts and 8 ohm bypass
Input connector type	Euroblock connector with parallel output
Enclosure material	Painted ABS polymer
Grille material	Powder coated aluminum
Enclosure Details	
Ingress protection	IP-54
Operating environment	Designed for indoor and outdoor use
Testing	The AD Series loudspeakers qualified for outdoor use using the following tests:  Salt fog: MIL-STD-810G Method 509.5 for 100 hrs. Humidity: MIL-STD-810G Method 507.5, Natural cycle B2, cyclic high RH for 7 days  High and low temperature: tested according to QSC internal standards between -20° and 50° C
Operating Temperature Range	-20 to 50 °C / -4 to 122 °F
Net weight	13.6 lbs / 6.2 kg
Product dimensions	14.4" x 8.5" x 8.5" (365 x 215 x 215mm)
Shipping weight	33.4 lbs / 15.2 kg (pair packed)
Shipping dimensions	20 x 12" X 23" (510 x 305 x 585mm) (pair packed)
Included accessories	X-Mount mounting system, euroblock connector, input panel cover

As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

<sup>1</sup> Free-field, -10 dB from on-axis sensitivity

<sup>2</sup> IEC60268-1 noise signal for 2 Hrs

<sup>3</sup> On-Axis, free-field sensitivity, 2.83V, 1 m

<sup>4</sup> Calculated from rated noise voltage and sensitivity

# QSC



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AD-S6T Spec Sheet 07/25/2017