

# product specifications



## T-21 sub

LINE-ARRAYABLE BASS CABINET WITH FULLY INTEGRATED RIGGING

EXTREMELY HIGH POWER/ SPL

TWO POWERFUL 21" KEVLAR/NEODYMIUM DRIVERS

6" DUAL COIL SYMMETRICAL DRIVE™



The Adamson T-21 Sub is a line-arrayable bass cabinet designed to provide superior sub-bass extension for Y-Axis true line source systems. The enclosure may be flown or stacked, and can be easily configured into an arc that will not shadow the main line array. The double spider design utilizes a 6" dual voice coil and powerful neodymium magnet assembly to achieve superlative output and sensitivity. The T-21 Sub features two of the newly developed SD-21 multilayer 21" Kevlar drivers. The SD-21 employs the Adamson Symmetrical Drive™ system, which unlike other dual coil drivers, has a balanced spider suspension with spiders at both ends of the coil assembly, resulting in extreme stability under high excursions.

The air movement generated by the spiders help cool the coil in conjunction with the driver structure's innovative geometry which features "fins" that draw heat away from the coil, thus lowering operating temperature and improving power compression.

The SD-21 is Adamson's most technologically sophisticated driver to date. With exceptional power handling and virtually no distortion, the SD-21's multilayer Kevlar cone has an extremely high stiffness to mass ratio, eliminating cone fatigue and delivering long-term reliability and resilience to the elements.

The T-21 Sub's tuned enclosure is internally braced to minimize harmonics and distortion. The cabinet design includes AIR™ (Adamson Integrated Rigging) system captured flying hardware that enables five precision rigging angles. Rear hinge linkage allows for 110 degrees of rotational freedom during array assembly, and all heavy-duty 5/8" diameter load rated linkage pins are attached to carrying slots when not in use.

# technical specifications

## T-21sub



### APPLICATION NOTES

- The T-21 Sub is designed to be a sub companion to the Adamson Y-Axis line.
- The T-21 can be arrayed as a stand-alone array, either ground stacked or flown beside Y18's or Y10's.

### ADVANCED CONE ARCHITECTURE

Adamson has led the industry in Kevlar diaphragm technology from the time of its first patent application in the field more than two decades ago. Today, Adamson produces Kevlar cone substrates with a structural modulus higher by far than any other manufacturer.

By using high modulus cone materials the SD-21 attains performance levels unmatched by paper cone drivers. The SD-21 features Adamson's advanced cone architecture; a multi-layer Kevlar cone with increased cone rim stiffness which gives you:

- decreased distortion
- increased surround life expectancy
- exceptional power handling
- reduced cavity resonance
- increased internal box volume

### PHYSICAL DATA

Dimensions & Weight		
Height	23"	(58.42cm)
Width	57.63"	(146.38cm)
Depth	38.31"	(97.31cm)
Weight	309 lbs	(140.16 kg)
Box Finish	Waterborne Acrylic	
Hardware Finish	Polyester Sandtex™ Powder	
Rigging	Four sets of captured rigging; spring-loaded precision machined aluminum	
Protective Grille	14 gauge cold rolled steel	
Cabinet Construction	Rugged 5/8", 11 ply Baltic Birch, internally braced	
Accessories	Aluminum dolly board	
Optional Accessories	Sub rigging frame, Custom soft-covers	
Connectors	Neutrik Speakon™ NL8 (see speaker's jackplate)	

### TECHNICAL DATA

Frequency Response (-10dB)	
single unit	36Hz - 193Hz
Frequency Range	
with Y18 (Y10) Preset	30Hz - 70Hz (90Hz)
Maximum SPL (Continuous)	
with Preset	140.5 dB
Maximum SPL (Peak)	
with Preset	146.5 dB
Sensitivity (1m, half space)	
LF	2.83V / 115.6 dB / 25Hz - 100Hz
LF Section (Impedance)	2 x SD-21 21" Kevlar Neodymium (2 x 2Ω)
Power Handling (30Hz - 300Hz)	(AES / Program / Peak)
LF	1500 / 3000 / 6000
Connection	2 x Neutrik Speakon™ NL4
Processor Presets	XTA, Lake, PLM

\* AES power ratings are measured with a Pink Noise signal extending one decade above the driver's lowest operating frequency. This rating is the average RMS power, long term, with a 6dB crest factor. Therefore the continuous peaks are 6dB higher than the AES rating.

† Our Program Power rating is the suggested continuous power of each amplifier channel. The driver can be continuously driven to the amplifiers maximum output without failure.



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Specifications are subject to change without notice.

# frequency response diagram



Smoothed Frequency Response Magnitude

