

# AC6

## 2-Way Full Range ADAPTive Column

- ▶ Adaptive Performance™ manages coverage and directivity via Resolution™ 2 software
- ▶ Suitable for outdoor installation when input/output weather protection covers are used
- ▶ Proven EAW acoustical design and DSP including Focusing™ and DynO™ provides a pristine impulse response at all output levels.
- ▶ Integrated Dante™ redundant networking including Analog redundancy capability.
- ▶ On-board diagnostics and Adaptive Healing continuously monitor and correct performance in real time



### OVERVIEW

AC6 brings the highly sought-after ADAPTive tool kit to a column loudspeaker. In the same fashion as Anya and Anna speaker enclosures, AC6 offers all of the benefits of ADAPTive performance in a pillar enclosure.

AC6's 120° horizontal dispersion further extends the capabilities of ADAPTive Systems offering a dramatically smaller product in the ADAPTive family. An infinite amount columns of AC can be flown as mains in a wide variety of applications or integrate AC with the larger Anya and Anna modules within the same venue for endless coverage possibilities.

### TECHNOLOGIES



**ADAPTive Performance™** Adaptive Performance integrates nearly every aspect of a loudspeaker – mechanical, electrical and acoustical design – to one end: ideal three-dimensional coverage of every venue, every time.



**Concentric Summation Array (CSA)™** A method of seamlessly integrating MF and HF components within a single horn. With CSA, multiple subsystems sum coherently, without interruption to either HF or MF wavefronts.



**Beamwidth Matched Crossovers** Introduced over a decade ago for our MK series loudspeakers, EAW Engineers use carefully-designed HF horns and crossovers to eliminate polar irregularities through the crossover point.



**Focusing™** Use of advanced digital signal processing to perfect the impulse response of a loudspeaker in the time domain. Eliminating horn "honk" and splashiness, this makes the loudspeaker sound like a studio monitor instead of a "PA" speaker.



**DynO™** Dynamic Optimization actively tracks input spectrum and power delivery, continually wicking maximizing output and fidelity at any drive level.



## TECHNICAL SPECIFICATIONS

### 2-WAY FULL RANGE ADAPTIVE COLUMN

PHYSICAL	
<b>Color</b>	Black or White
<b>Material</b>	Aluminum Housing with Stainless Steel Grille
<b>Dimensions (HxWxD)*</b>	38.7 x 9.4 x 10.4in (983 x 239 x 264mm)
<b>Net Weight*</b>	70lbs (32kg)
<b>Shipping Weight*</b>	85lbs (36kg)

ORDERING DATA	
<b>Part Numbers:</b>	<b>Black</b>
AC6	2070185-90
<b>Accessories</b>	
EAW AC6 WALL BRACKET BLACK	2071359-90
EAW AC6 WALL BRACKET WHITE	2071372-90
EAW AC6 FLUSH MOUNT BRACKET	2071383-90
EAW AC6 FLUSH MOUNT BRACKET	2071637-90
EAW AC6 CONNECTING PLATES	2072137-90
EAW AC6 SUBWOOFER STACK	2072137-90
EAW AC6 STINGER KIT	2072166-90
EAW AC6 MOHAWK KIT	2072165-90
EAW AC6 POLE CUP KIT	2072034-90
EAW AC6 2X HANDLE KIT	2072046-90

PERFORMANCE	
<b>Max SPL (Peak 1m), unadapted<sup>1</sup></b>	143dB
<b>Operating Range<sup>2</sup> (-10db)</b>	65Hz – 20kHz
<b>Nominal Beamwidth<sup>3</sup></b>	120 ° Horizontal x Adaptive Vertical

CONFIGURATION	
<b>LF Transducer, Loading</b>	6 x 6 in cone, 1.7 in voice coil vented (w/ CSA)
<b>HF Transducer, Loading</b>	30 x 19mm dome tweeter, horn loaded
<b>Operating Mode</b>	6 x LF, 30 x HF
<b>Amplifier Channels</b>	6 x LF, 30 x HF
<b>Signal Processing</b>	DSP with EAW Focusing™ and Adaptive Performance™

ELECTRICAL	
<b>Input Type</b>	Electronically Balanced
<b>Max Input Level</b>	25dBu
<b>Impedance</b>	20kOhm (balanced)
<b>Wiring</b>	2x XLR/F, Pin 1 chassis, pin 2+, pin 3- 2x Separate Loop through XLRM (for analog signal only)
<b>Dry Contact Interface</b>	Input override, preset recall, fault status Separate loop through & 6x pass through pins
<b>Voltage</b>	5V nominal, 12V maximum
<b>Power Draw</b>	600W
<b>Input &amp; Loop Type</b>	Analog/AES/Dante®
<b>Amplifier Type</b>	Class D
<b>Amplifier</b>	6 x 150W LF 30 x 75W HF
<b>Max Output LF / HF (Peak)</b>	
<b>Driver Protection</b>	Integral DSP Limiting
<b>AC Mains (nominal)</b>	<b>Connector</b> Neutrik PowerCON® True1 Top <b>Input</b> 100V to 240V <b>Frequency</b> 50Hz to 60Hz

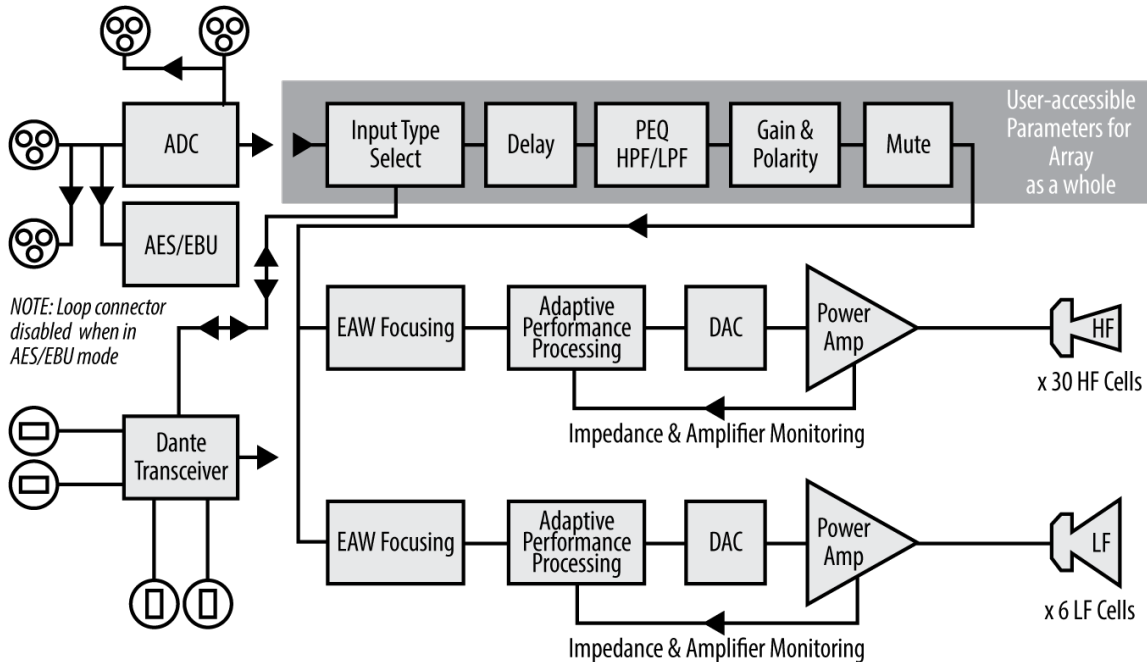
POWER CONSUMPTION	
<b>Full</b>	600W
<b>1/3rd</b>	
<b>1/8th</b>	
<b>Idle</b>	

1 Calculated max SPL at 1m with 4:1 (12dB) crest factor pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.

2 Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.

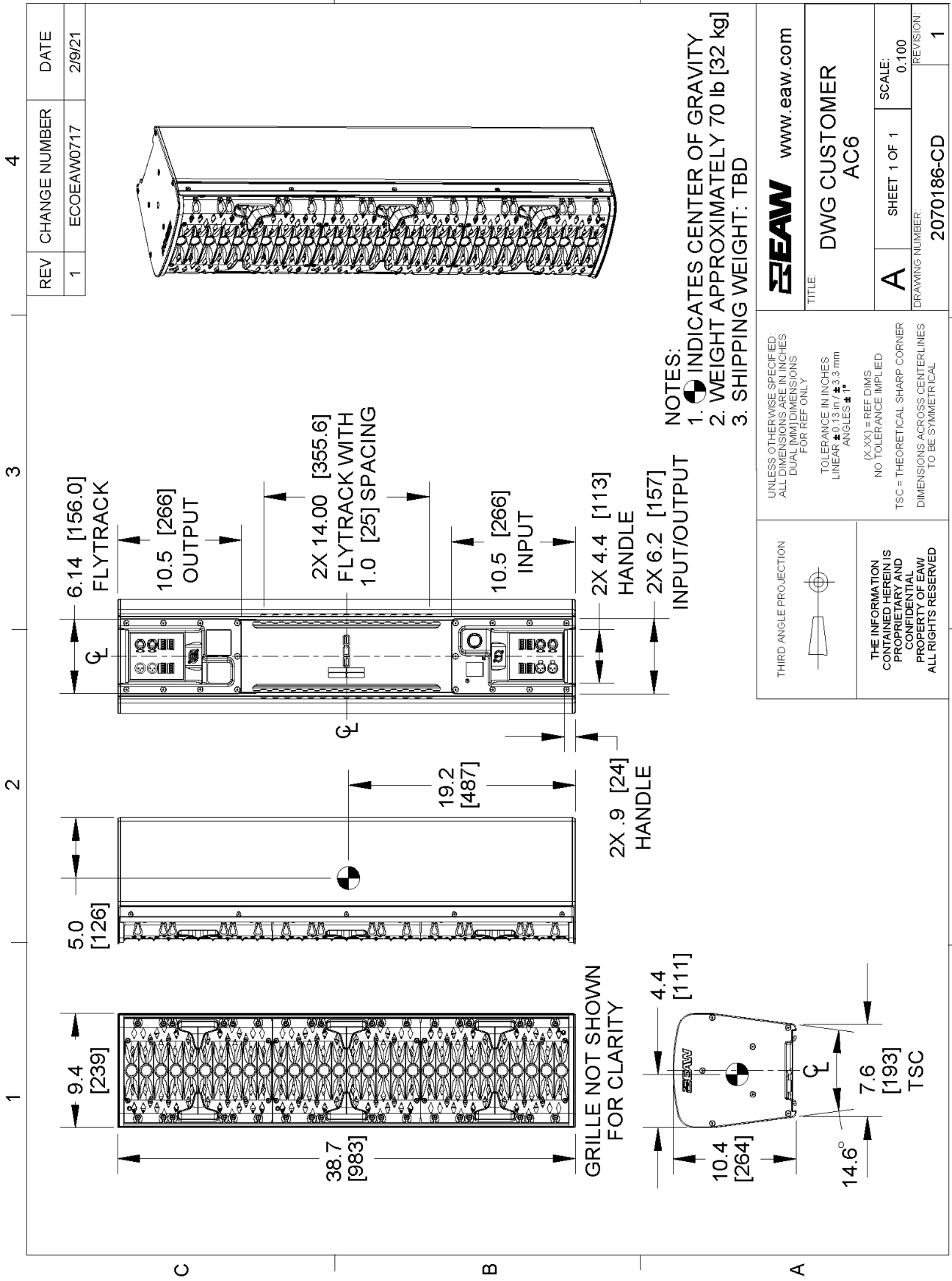
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

**SIGNAL DIAGRAM**



**LEGEND**

- HPF:** High Pass Filter for crossover –or– Recommended High Pass Filter.
- LPF:** Low Pass Filter for crossover.
- LF/MF/HF:** Low Frequency / Mid Frequency / High Frequency.
- AMP:** User Supplied Power Amplifier –or– Integral Amplifier for NT products.
- XVR:** Passive LPFs, HPFs, and EQ integral to the loudspeaker.
- EAW Focusing:** Digital Signal Processor capable of implementing EAW Focusing.

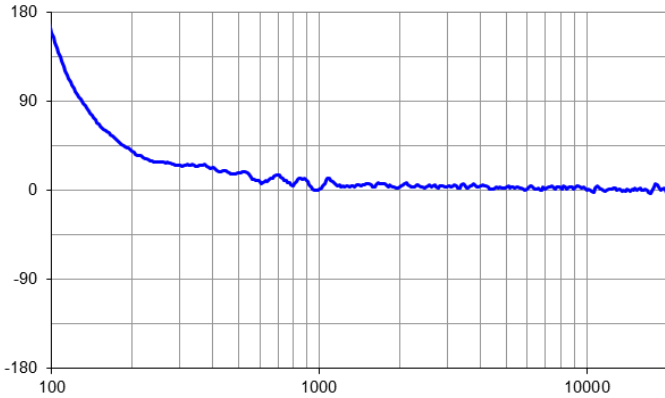


REV	CHANGE NUMBER	DATE
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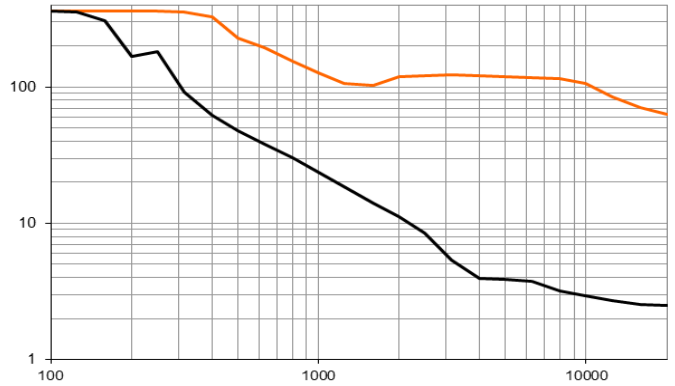
<a href="http://www.eaw.com">www.eaw.com</a>	
TITLE: DWG CUSTOMER AC6	
A	SHEET 1 OF 1
SCALE: 0.100	
DRAWING NUMBER: 2070186-CD	
REVISION: 1	

**PERFORMANCE GRAPHS**

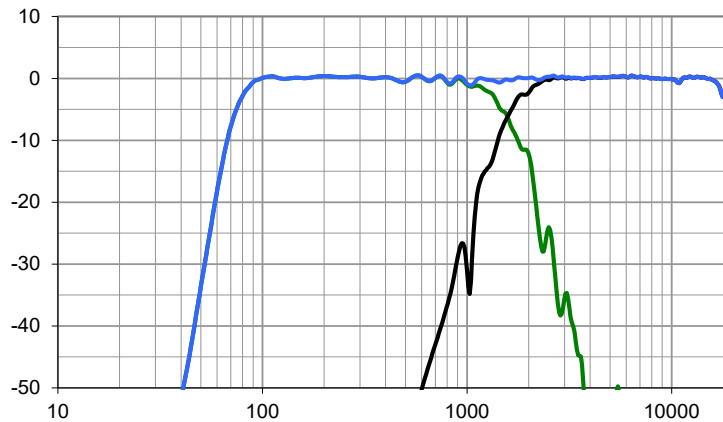
**Phase Linearity**



**Beamwidth (Unadapted)<sup>1</sup> ■=Horizontal ■=Vertical**



**Frequency Response<sup>2</sup> ■=LF Processed ■=HF Processed ■=Overall Processed**



**1** Average angle for each 1/3 octave frequency band where, starting from the rear of the loudspeaker, the output first reaches -6 dB SPL referenced to 0 dB SPL as the highest level. This method means the output may drop below -6 dB SPL within the beamwidth angle.

**2** Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.



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