

# AC83

Focussed Array



The AC83 is a compact slim line high performance column loudspeaker which provides broad horizontal and tightly controlled vertical dispersion for professional sound reinforcement systems.

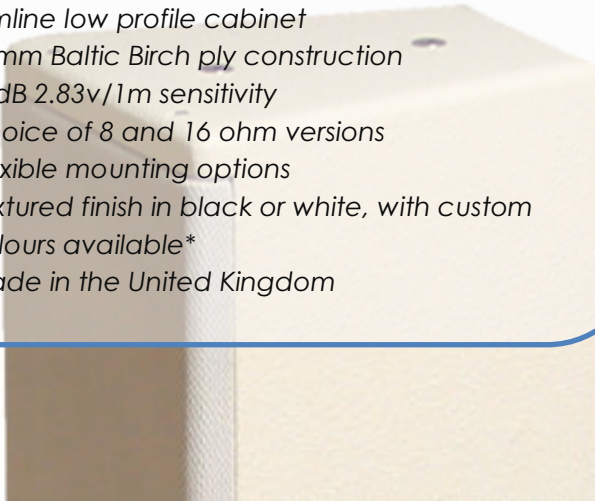
By employing multiple full range drive units, a phase coherent waveform is created which results in true and accurate sound reproduction.

The compact design enables unobtrusive installation in architecturally sensitive buildings such as houses of worship, school & civic halls and buildings of historic interest.

Ideal for the reproduction of voice and music the AC83 excels within acoustically challenging buildings, offering excellent control and focus.

### Features

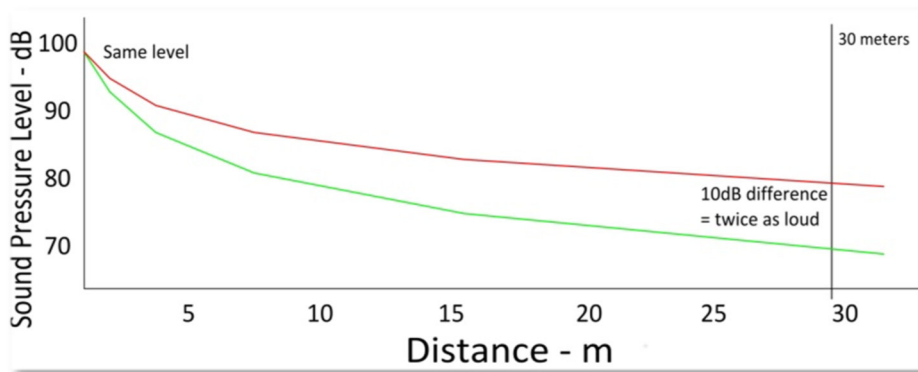
- Controlled dispersion pattern
- Low distortion
- Excellent sound projection over large areas
- Slimline low profile cabinet
- 12mm Baltic Birch ply construction
- 95dB 2.83v/1m sensitivity
- Choice of 8 and 16 ohm versions
- Flexible mounting options
- Textured finish in black or white, with custom colours available\*
- Made in the United Kingdom



### Specifications

<b>AC-83</b>	Focussed array column loudspeaker	<b>Nominal dispersion</b>	Horizontal: 100° , Vertical: 20°
<b>Type</b>	Passive	<b>Dimensions</b>	Trapezoidal: Height 900mm Width front 140mm, rear 90mm Depth 160mm
<b>Full range driver</b>	8 x 3"	<b>Nett Weight</b>	9 kgs
<b>Power handling</b>	150w AES, 300w Peak	<b>Inputs</b>	1 x Neutrik™ NL4MP, 1 x 2-way screw terminal
<b>Nominal Impedance</b>	AC83/8 = 8Ω AC83/16 = 16Ω	<b>Finish</b>	Warnex textured paint with fabric grille
<b>Sensitivity</b>	95dB 2.83v/1m	<b>Colours</b>	Black or white Customer colours available to order, *minimum quantity orders will apply
<b>Max continuous SPL</b>	115dB at 1m 94dB at 20m		
<b>Frequency response</b>	90Hz to 18kHz (+/-3dB)		
<b>LF roll off</b>	67Hz (-10dB)		
<b>Recommended Processing</b>	80Hz HPF 12dB/Oct		





A graph showing the comparable sound level generated over distance of the AC83 (red line) versus a conventional 2-way loudspeaker (green line)



The AC83 has the ability to project sound much further over distance than most conventional loudspeakers due to acoustic coupling and vertical dispersion control. Control and the reduction of spill of sound to unwanted areas such as the ceiling and floor, considerably helps with system intelligibility and gain before feedback.

The bass reflex design also offers better frequency response than other column loudspeakers, improving music reproduction, however with the addition of a suitable bass loudspeaker a superb full range sound system can be achieved.

The main advantages are,

- o Excellent and consistent sound pressure level is achieved over distance, enabling audiences to hear at the back and not be overwhelmed at the front.
- o Fewer loudspeakers are required in an installation to provide effective coverage resulting in a less obtrusive and more cost-effective installation.

The AC83 is available in 8 ohm or 16 ohm versions for greater flexibility when using multiple loudspeakers powered from a single amplifier channel.

Input connections are made using either the Neutrik™ NL4 speakon input or screw terminals.



## Accessories



### WME50 rear mounting bracket

This wall mounting bracket fits to the rear of the AC83 using either set of four fixings. It provides pan and tilt adjustments.



### AC83PM Top Hat

This adaptor plate allows the AC83 to be mounted onto a 35mm tripod stand



### AC83LBKT – L shaped bracket kit

This kit consists of a pair of L shaped brackets which connect to the top and bottom of the loudspeaker and provides up to 180° of pan with a small degree of tilt.



### AC83TM top mount bracket

This enables the AC83 to be hung vertically. Provides tilt up to 30° and pan of 150°.

## Companion Products

LF12BP – Sub bass loudspeaker 1 x 12" 400w AES  
LF18BR – Sub bass loudspeaker 1 x 18" 1000w AES

DSP settings and recommended system setups for Hush Audio speakers are available on request.



LF12BP – Sub bass loudspeaker