

## **SUPERBEAM®** Array Microphone



- The Andrea **SUPERBEAM®** Array is a far-field, 2-microphone array with stereo output.
- Offers the highest quality and performance of a low cost upgrade over a single element microphone.
- Small size for unobtrusive mounting on a monitor or laptop.
- Specifically designed for use with Andrea DSDA®, and PureAudio® noise reduction software running on the host processor to enable untethered:
  - Continuous Speech Recognition
  - Command and Control
  - Voice over IP Internet Telephony
- Andrea's DSDA® and PureAudio® noise canceling algorithms allow for superior audio quality by cancelling out background noise resulting in increased intelligibility of communications.
- Compatible with Andrea's AudioCommander® audio interface software to optimize multimedia control applications. AudioCommander® is available at [www.AndreaElectronics.com](http://www.AndreaElectronics.com).

## Performance

Parameter	Superbeam® Microphone Array
<b>Acoustic</b>	
Microphone Configuration	Two unidirectional microphones with individual channels to a stereo output
Recommended operating distance	12" - 48" (Varies with application)
Acoustic signal reduction @ 1 KHz and 180°	>10 dB
<b>Electrical Characteristics</b>	
Mic bias Supply Voltage for rated sensitivity	4 VDC
Operating Mic bias Supply Voltage Range (with up to 3 dB sensitivity variation)	2.5 to 5 VDC
Supply series resistor	2 KOhms +/- 0.5K
Operating Current (each channel)	0.6 mA
Output Impedance @ 1 KHz	<200 Ohms
Max SPL Input @ 1 KHz	115 dB (3% THD @ 3.7V)
Max Output (THD <3% @ 1 KHz)	120 mV rms
Sensitivity (Re: 1V @ 0.1 Pa)	-44 dB, +/- 4 dB
Frequency Response	50 Hz - 8000 Hz
Noise	20 uV
Operating Temperature	0° C to + 70° C
Connector	3.5 mm jack, left mic power and left audio on "tip", right mic power and right audio on "ring". Sleeve common ground.

## Physical

Size	4.3" length x 1.7" width x 0.9" height
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## Available Software

Operating Systems	Windows XP, 2000, Me and 98SE
DSDA® 2.0 Adaptive Beamforming	Yes with ADI 1981B or Andrea USB-D-2A
PureAudio® Adaptive Noise Reduction	Yes with ADI 1981A or B or Andrea USB-D-2A



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