

ACE BACKSTAGE CO., INC. STAGE POCKET SYSTEMS

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DATA SHEET

Choir Stick Microphones
Data Spec Sheet
Revision: 9.26.13

Model Numbers:	#CSM-40x/60x (where x is element type C=Cardioid, H=Hypercardioid, OM=Omnidirectional, ML= MicroLine)
Model Name:	Choir Stick Microphone
Model Description:	Choir Stick Microphone using Audio-Technica® Technology

CSM-40 and CSM-60 CHOIR STICK MICROPHONES

The CSM-60 and CSM-40 Choir Stick Microphone offers the ultimate performance of an overhead hanging choir mic in a totally portable configuration. The low profile, light weight, black, aluminum, space age alloy stick mic is available in both 40" and 60" models. The Boom Stick places the microphone element ideally above and over any choir.

This versatile Stick Microphone mounts on any standard microphone stand with any standard taper-body mic stand clip. It is extremely stable and will not easily tip over. Four **Engineered Sound Series** pick-up pattern choices mean one will be right for your needs. Use the CSM-40 or CSM-60 Choir Stick Microphone for children or adult groups on the stage steps, portable risers or anywhere.

The CSM-40 (40" long) and CSM-60 (60" long) Choir Stick Microphone features AUDIO-TECHNICA®'s miniature back-plate condenser elements assembled into an ultra light weight aluminum boom shaft (.312" Dia.) for long reach, high performance microphone applications. Each Stick Microphone version is supplied with a Taper-Body Clutch Stand Mount and a U-U Clip ready for use with any standard microphone stand. The CSM Stick Microphone is a wide range condenser microphone available with a series of interchangeable elements.

It is designed for quality sound reinforcement, professional recording, television, and other demanding sound pickup situations. The small-diameter gooseneck design permits highly flexible positioning while maintaining a smooth, well contoured appearance. The output connection power module for the Stick Microphone is an Integral 3-pin XLRM-type, phased with phantom power requirements of 11-52V DC, 2mA typical and an impedance range of 250 ohms.



CHOIR STICK MIC MODEL NUMBERS

- #CSM-40C40" Long Choir Stick Mic w/ 120° Cardioid Element
- #CSM-40H40" Long Choir Stick Mic w/ 100° Hypercardioid Element
- #CSM-40OM40" Long Choir Stick Mic w/ 360° Omnidirectional Element
- #CSM-40ML.....40" Long Choir Stick Mic w/ 90° MicroLine Element
- #CSM-60C60" Long Choir Stick Mic w/ 120° Cardioid Element
- #CSM-60H60" Long Choir Stick Mic w/ 100° Hypercardioid Element
- #CSM-60OM60" Long Choir Stick Mic w/ 360° Omnidirectional Element
- #CSM-60ML.....60" Long Choir Stick Mic w/ 90° MicroLine Element



ENGINEERED SOUND SERIES AUDIO-TECHNICA ELEMENTS



AUDIO-TECHNICA CHOIR STICK MIC ELEMENTS

The flexible design of the Audio-Technica® gooseneck allows greater maneuverability of the condenser while maintaining a sleek, compact appearance. Add versatility to your Audio-Technica® Choir Mic with optional interchangeable elements. Different pickup patterns are now attainable via interchangeable elements. These include:

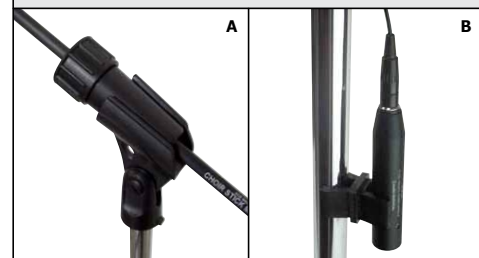
- A) Cardioid 120° B) Hypercardioid 100° C) Omnidirectional 360°



- D) MicroLine 90°



TAPER BODY CLUTCH STAND MOUNT and U-U CLIP



TAPER BODY CLUTCH STAND MOUNT (A)

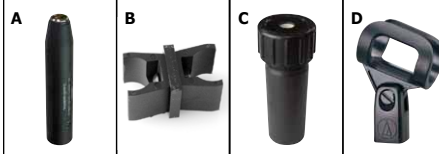
The simple design of the Taper Body Clutch Stand Mount makes it easy to use on almost any standard microphone stand. The compact size creates a sleek look while maintaining a stable foundation.

U-U CLIP (B)

The U-U Power Module Clip captures the power module against the mic stand for easy connection with mating cable. Made with state of the art molded plastic, this clip is strong and durable.

CHOIR STICK MICROPHONES INCLUDE

The Choir Stick Microphone is supplied with a Phantom Power Module (A), a U-U Power Module Clip (B), a Taper Body Clutch (C), and a Stand Mount Clip (D). The Stick Mic also requires 11-52v of Phantom Power and **DOES NOT** include the stand.



CSM-40 and CSM-60 CHOIR STICK MICROPHONES SPECIFICATIONS

MODEL NUMBER	MOUNT TYPE	POLAR PATTERN	ELEMENT TYPE	FREQUENCY RESPONSE	OPEN CIRCUIT SENSITIVITY ¹	MAX INPUT SOUND LEVEL ²	DYNAMIC RANGE ³	SIGNAL-TO-NOISE RATIO ⁴
#CSM-40/60C	Stick Mic	Cardioid	Fixed charge back plate permanently polarized condenser	30-20,000 Hz	-44 dB (6.3mV)	135 dB SPL	108 dB	67 dB
#CSM-40/60H	Stick Mic	Hyper-Cardioid		30-20,000 Hz	-44 dB (6.3mV)	135 dB SPL	108 dB	67 dB
#CSM-40/60OM	Stick Mic	Omnidirectional		30-20,000 Hz	-44 dB (6.3mV)	135 dB SPL	108 dB	67 dB
#CSM-40/60ML	Stick Mic	MicroLine		30-20,000 Hz	-35 dB (17.7mV)	133 dB SPL	109 dB	70 dB

¹re 1V at 1 Pa = 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB | ²1kHz at 1% T.H.D. | ³1 kHz at Max SPL | ⁴1 kHz at 1 Pa - Typical A-weighted using System 1



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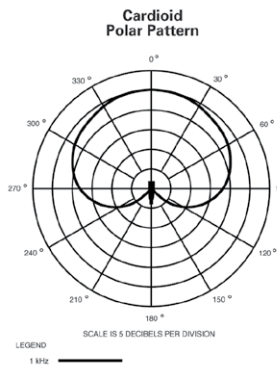
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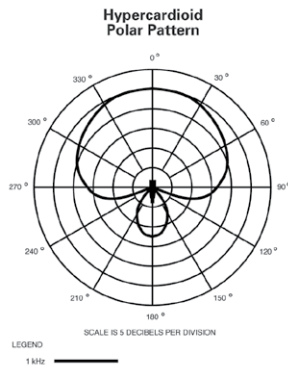
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AUDIO-TECHNICA CHOIR STICK MICROPHONE ELEMENT POLAR PATTERNS

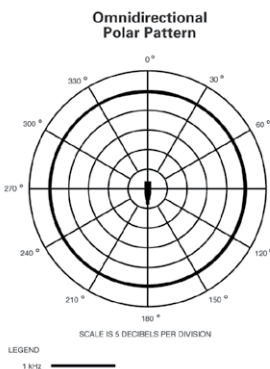
CARDIOID ELEMENT (120)



HYPER-CARDIOID ELEMENT (100)



OMNIDIRECTIONAL ELEMENT (360)



MICROLINE ELEMENT (90)



ONE YEAR LIMITED WARRANTY

ACE BACKSTAGE CO., INC. brand STICK MIC products purchased in the USA are warranted for one year from date of purchase by ACE BACKSTAGE CO., INC. to be free of defects in materials and workmanship. In the event of such defect, product will be repaired promptly without charge, or replaced at our option with equal or better product if the item is delivered, shipping prepaid, to ACE BACKSTAGE CO., INC. with the sales receipt or other proof of the purchase date. This warranty excludes defects due to normal wear, abuse (damaged shaft, etc.), shipping damage, or failure to use the product in accordance with instructions. The warranty is void in the event of unauthorized repair or modification.

FOR RETURN APPROVAL AND SHIPPING INFORMATION CONTACT:

**THE SERVICE DEPARTMENT
 ACE BACKSTAGE CO., INC.
 24846 AVENUE ROCKEFELLER • SUITE 200
 VALENCIA, CA 91355-3467**

Except to the extent precluded by applicable state law, ACE BACKSTAGE CO., INC. WILL HAVE NO LIABILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES; ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE EXPIRES WHEN THIS EXPRESS WARRANTY EXPIRES.