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**I**n 1930 two amateur (HAM) radio operators C.M. Chorpening and F.H. Woodworth of Youngstown, Ohio, began searching for a better microphone for their transmitters. In the 1920's and 1930's typical microphones of the day utilized carbon pick up elements that sounded garbled and staticky. Initially the condenser type appealed to them as an answer to their problem. Several units were designed and given trials on the air. Before long, other amateurs among their acquaintances were interested in either building or buying this new type of mic. Chorpening and Woodworth, encouraged by this interest, decided to form a partnership and build these units for their friends. While this condenser unit proved reasonably satisfactory, it had certain limitations which it was hoped could eventually be overcome.

At about this time an old acquaintance at the Brush Laboratories was experimenting with elements made from Rochelle Salts, (Sodium Potassium Tartrate). Here, it seemed, they had found the answer to a simple, low cost, dependable "mic" for the ham rig. The crystal transducer had much higher output, broader frequency response, was more consistent in performance and durable. The name Astatic is an antonym meaning static-free. The company which became incorporated in 1933 soon moved to Conneaut, Ohio and became the first manufacturer and innovator of static free crystal transducers thus the creative spin on the name.

In addition to microphones Astatic designed, perfected and manufactured phonograph pickups, cartridges and many other types of transducers and electronic equipment for the military and other industries. For its liberal contribution to the Second World War effort, The Astatic Corporation received, along with many congratulatory letters for meritorious accomplishments, the U.S. Navy Certificate of Achievement. Through the later half of the last century the prominent markets served by Astatic were HAM radio as well as various other mobile and stationary radio transmission industries with a focus on the expanding installed sound markets. Astatic was a pioneer of the miniature condenser gooseneck microphone and other related products.

In the early 1990's the CAD (Conneaut Audio Devices) microphone company was created as a subsidiary to serve the emerging pro and semi pro studio and music performance markets. CAD was the first major American manufacturer to develop and produce large (1.1") diaphragm studio condenser mics, a prestige formerly enjoyed mostly by the Germans and Austrians.

Today's Astatic emphasizes its brand commitment as an Installation Audio manufacturer with an invigorated sales and engineering department. Entering the 21st century Astatic continues to market and develop unique products for the Installation Audio community. Today's focus is in the production and development of unique application specific dynamic and condenser microphones as well as continued presentation of commercial paging products.



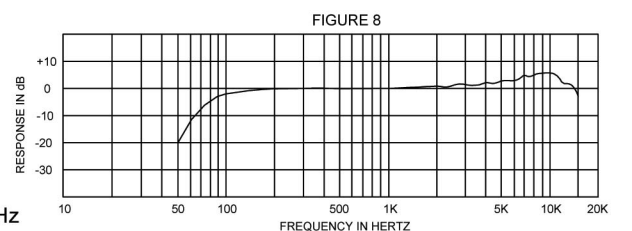
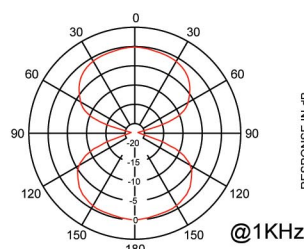
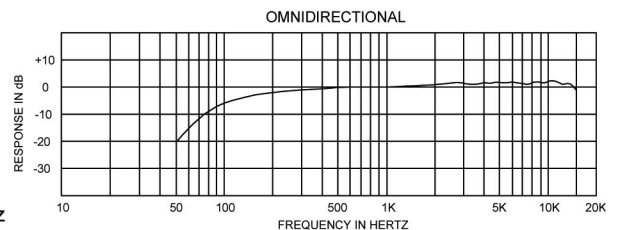
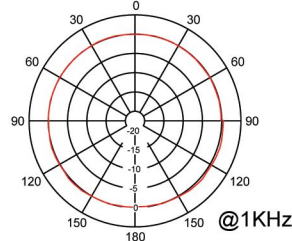
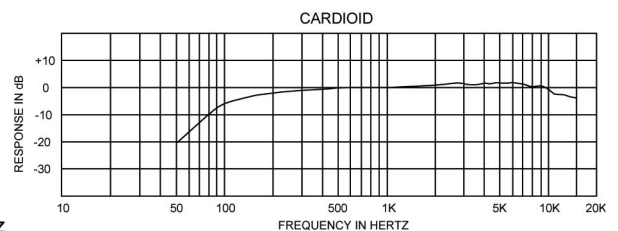
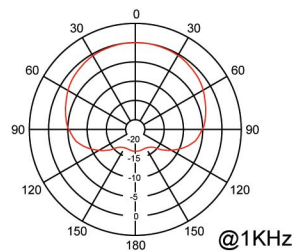
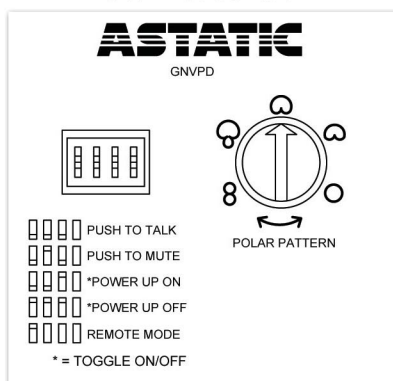
## GN15VPD (15") & GN20VPD (20")

### Continuously Variable Pick-Up Pattern, RF Resistant, PTT Desk Stand Gooseneck Condenser Microphones

The GNVPD is a dual-flex, continuously variable pattern, miniature gooseneck condenser microphone integrated on a styled PTT desk stand. Designed primarily for speech and vocal pickup in municipal & institutional, government, courthouse, business, AVTC and other applications. Logic I/O functions may be utilized with auto-mixers and control systems. Closure input can remotely control LED and the switch membrane working with or bypassing the microphone's mute can actuate closure output. Because the GNVP has continuously variable pick-up pattern selection it can shorten the list of products an audio system designer needs to keep in mind when gooseneck condenser mics are specified. An installer can precisely tailor the pick-up pattern for the best performance depending on the application or environment.

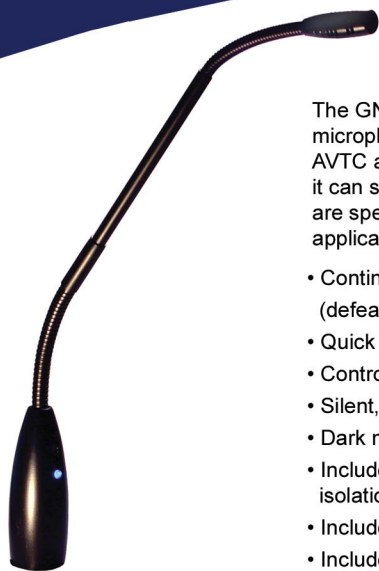
- Continuously variable pick-up pattern selector
- RF (radio frequency) resistant design
- Feather touch membrane switch
- Selectable push-to-talk or push-to-mute
- Selectable toggle power up ON or power up MUTED
- Programmable on/off switch
- Status LED at mic base (remote controllable)
- Logic I/O terminals for use with remote control systems and/or audio mixers
- 12dB/oct bass roll-off @ 80Hz for elimination of unwanted thumping or rumbling low frequencies
- Available in two lengths (15" & 20")
- Rear or bottom exit cable option
- Detachable 30' cable
- Controls secured at base of mic
- Shock isolation pad
- May be permanently mounted
- Silent, durable dual flexpipe design with strong positioning "memory"
- Dark non-reflective grey finish

GNVPD Control Panel



#### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Continuously variable  
 Frequency Response: 100Hz - 15kHz  
 Sensitivity: -36dBV (15.9mV) @ 1Pa  
 Impedance: 125 ohms  
 Self Noise: 29dBA  
 Max SPL: 120dB  
 Power Requirements: P12, P24, P48, 2mA



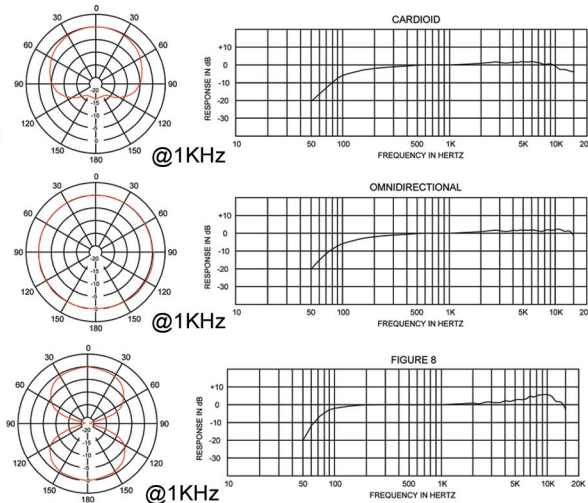
## GN10VP (10"), GN15VP (15") & GN20VP (20") Continuously Variable Pick-Up Pattern, RF Resistant Mini Gooseneck Condenser Microphones

The GNVP is a series of dual-flex, continuously variable pattern, quick mount, miniature gooseneck condenser microphones. They are designed primarily for speech and vocal pickup in worship, government, courthouse, business, AVTC and other applications. Because the GNVP microphones have continuously variable pick-up pattern selection, it can shorten the list of products an audio system designer needs to keep in mind when gooseneck condenser mics are specified. An installer can precisely tailor the pick-up pattern for the best performance depending on the application or environment.

- Continuously variable pick-up pattern selector • RF (radio frequency) resistant design • Status LED at mic base (defeatable) • 12dB/oct bass roll-off @ 80Hz for elimination of unwanted thumping or rumbling low frequencies
- Quick mount format with integrated XLR base
- Controls secured within base of mic
- Silent, durable dual flexpipe grey finish
- Dark non-reflective grey finish
- Included shock-mounting ring (approx. 20dB noise isolation)
- Included locking XLR-F type flange-mount
- Included windscreen
- See accessories for versatile mounting options

### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Continuously variable  
 Frequency Response: 100Hz - 15kHz  
 Sensitivity: -36dBV (15.9mV) @ 1Pa  
 Impedance: 125 ohms  
 Self Noise: 29dBA  
 Max SPL: 120dB  
 Power Requirements: P12, P24, P48, 2mA



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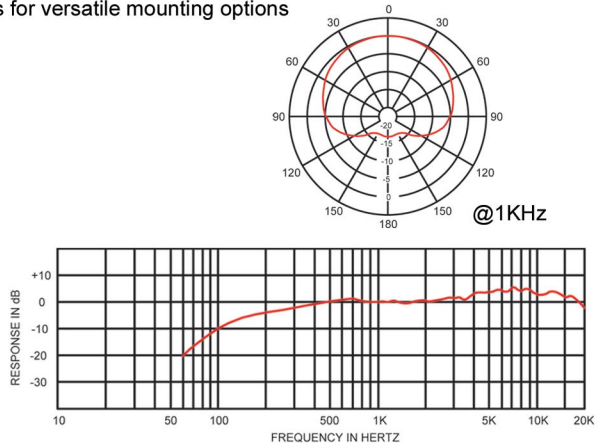
## 910B, 915B, 920B Cardioid Mini Gooseneck Condenser Microphones

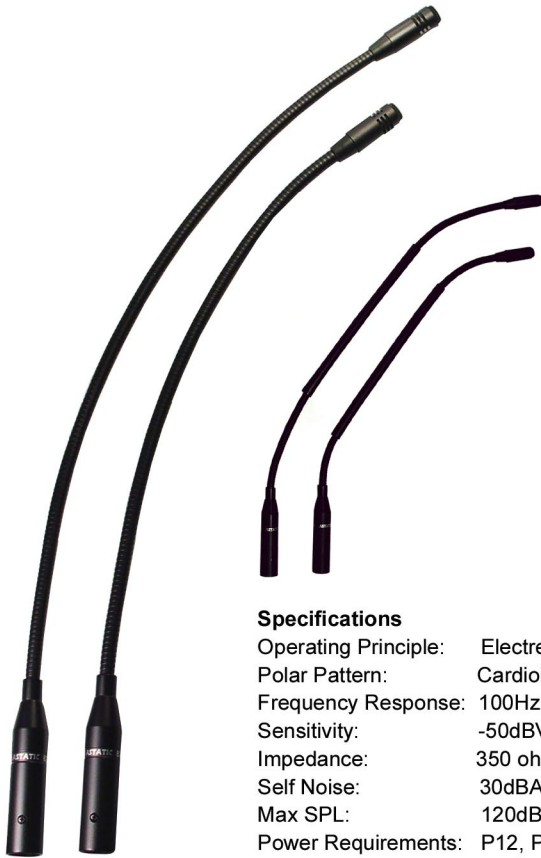
Dual flex point, quick-mount cardioid gooseneck condenser mics for speech and vocal pickup. May be used for lectern, courtrooms, conference/meeting rooms and House of Worship applications.

- Natural extended fidelity frequency response for versatile applications in performance and speech
- Unidirectional for rejection of feedback or unwanted ambient sounds
- Silent dual bend point flexpipe on 915B and 920B
- Low noise transformerless output
- Includes foam pop filter
- See accessories for versatile mounting options

### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 150Hz - 20kHz  
 Impedance: 440 ohms  
 Self Noise: 26dBA  
 Max SPL: 132dB  
 Power Requirements: P12, P24, P48, 2mA





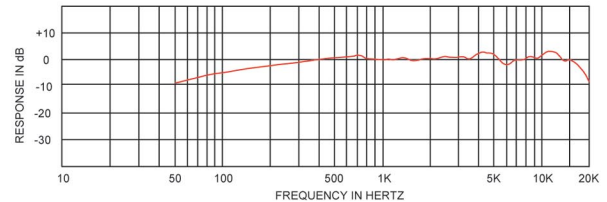
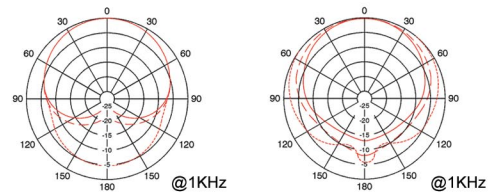
## 827A-13, 827A-17 Cardioid Mini Gooseneck Condenser Microphones

Quick-mount cardioid gooseneck condenser mics for speech and vocal pickup. May be used for lectern, dais, courtrooms, conference/meeting rooms, paging, telecommunications and intercom systems.

- Unidirectional for rejection of feedback or unwanted ambient sounds
- Unique all flex gooseneck design for precise positioning
- Optional flex pipe stiffener
- Includes foam pop filter
- See accessories for versatile mounting options

### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 100Hz - 16kHz  
 Sensitivity: -50dBV (3.2mV) @ 1Pa  
 Impedance: 350 ohms  
 Self Noise: 30dBA  
 Max SPL: 120dB  
 Power Requirements: P12, P24, P48



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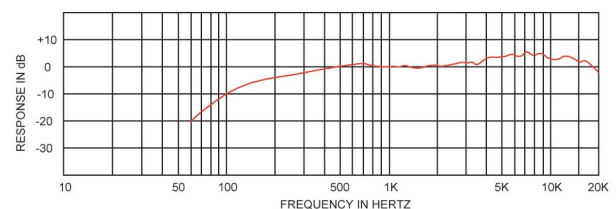
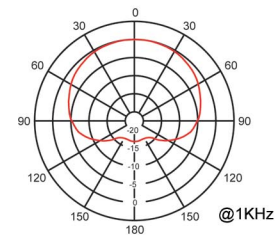
# OVERHEAD CONDENSER MICROPHONES



## 900, 900W Mini Overhead Cardioid Condenser Microphones

Miniature overhead cardioid condenser mics for speech, vocal and choral pickup. May be used for installation over choirs, in courtrooms, conferencing and in meeting rooms.

- Natural extended fidelity frequency response for versatile applications in performance and speech
- Unidirectional for rejection of feedback or unwanted ambient sounds
- 7" flexpipe at mic end for precision aiming or adjusting
- 30' twist resistant cable terminating in 3-pin XLR connector
- .022" diameter hole behind mic head allows for precision retention by monofilament line
- Includes foam pop filter



### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 150Hz - 20kHz  
 Impedance: 440 ohms  
 Self Noise: 26dBA  
 Max SPL: 132dB  
 Power Requirements: P12, P24, P48, 2mA

## 930VP, 930VPW Continuously Variable Pattern Desktop Boundary Condenser Microphone

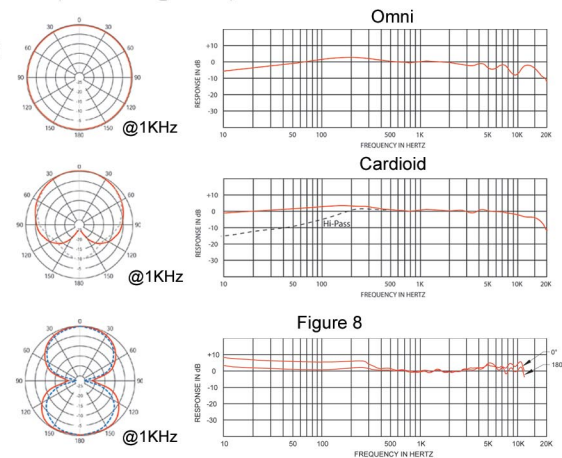


### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Continuously Variable  
 Frequency Response: 40Hz - 15kHz  
 Sensitivity: -33dBV (22.4mV) @ 1Pa  
 Impedance: 330 ohms  
 Self Noise: 29dBA  
 Max SPL: 118dB, 1% THD  
 Power Requirements: P48, 6mA

Now one boundary mic can suit almost any challenge when tasked to perform on altars, conference tables and stage floors or in media production. Because the Astatic 930VP has variable pick-up pattern selection it can shorten the list of products an audio system designer requires when boundary mics are specified. From omnidirectional to cardioid, hypercardioid, figure-eight and all tight or wide directional pick-up patterns in between, an installer or designer can precisely tailor the mic's pick-up pattern for the best performance depending on the application or environment.

- Continuously variable pick-up pattern selector potentiometer
- RF (radio frequency) resistant design
- Programmable feather-touch membrane with status LED
- Selectable push-to-talk or push-to-mute
- Selectable power up ON or power up MUTED
- Selectable bass roll-off filter (12dB/oct @ 80Hz)
- Special energy absorbing shockmount compound on bottom
- Security control cover
- Key hole mounting slots for permanent installation



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## 901R, 901RW Hemi-Cardioid Desktop Boundary Condenser Microphone

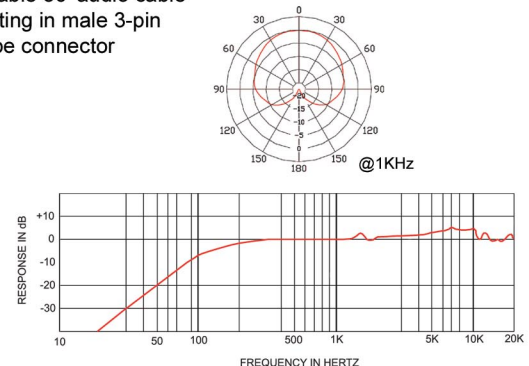


### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 100Hz - 20kHz  
 Sensitivity: -33dBV (22mV) @ 1Pa  
 Impedance: 150 ohms  
 Self Noise: 25dBA  
 Max SPL: 127dB, 1% THD  
 Power Requirements: P12, P24, P48, 2.4mA

Portable or mounted boundary mic for use on conference tables or stage floors. Improved RF immunity to greatly reduce susceptibility to radio interference from GSM based cell phones, PDA/cell phones, cell phones with walkie-talkie capability and other similar devices

- RF resistant design
- Unidirectional for rejection of feedback or unwanted ambient sounds
- Rugged, double layered, perforated steel screen
- Non slip rubber pad for shock isolation
- Key hole mounting slots for permanent installation
- Detachable 30' audio cable terminating in male 3-pin XLR type connector



## 201R, 201RW RF Resistant Cardioid Condenser Mini-Boundary Microphones

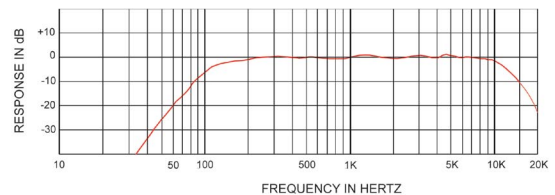
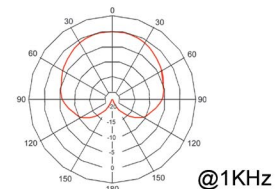
Miniature installation cardioid "button" style condenser boundary mics for use in teleconferencing or voice lift sound reinforcement. Also may be used in surveillance, ambient recording or audio observation applications. Improved RF immunity to greatly reduce susceptibility to radio interference from GSM based cell phones, PDA/cell phones, cell phones with walkie-talkie capability and other similar devices.

- RF resistant design
- Low profile mounting in panels, table tops, walls or ceilings
- 12dB/oct bass roll-off @ 100kHz for elimination of unwanted thumping or rumbling low frequencies
- Hemi cardioid directional pick-up pattern
- Dual surface and bottom shock isolation bushings
- Low noise transformerless electronic design
- 13/16" (20mm) threaded diameter with mounting hardware



### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 100Hz - 15kHz  
 Sensitivity: -36dBV (16mV) @ 1Pa  
 Impedance: 150 ohms  
 Self Noise: 29dBA  
 Max SPL: 129dB, 1% THD  
 Power Requirements: P12, P24, P48, 2.4mA



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## 202R, 202RW RF Resistant Omni Mini-Boundary Microphones

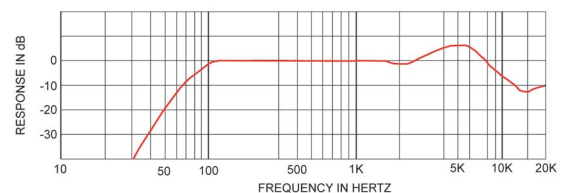
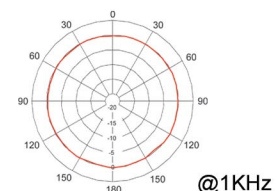
Miniature installation omnidirectional "button" style condenser boundary mics for use in teleconferencing or voice lift sound reinforcement. Also may be used in surveillance, ambient recording or audio observation applications. Improved RF immunity to greatly reduce susceptibility to radio interference from GSM based cell phones, PDA/cell phones, cell phones with walkie-talkie capability and other similar devices.

- RF resistant design
- Low profile mounting in panels, table tops, walls or ceilings
- 12dB/oct bass roll-off @ 100kHz for elimination of unwanted thumping or rumbling low frequencies
- Hemi omnidirectional pick-up pattern
- Dual surface and bottom shock isolation bushings
- Low noise transformerless electronic design
- 13/16" (20mm) threaded diameter with mounting hardware



### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Omnidirectional  
 Frequency Response: 80Hz - 10kHz  
 Sensitivity: -30dBV (32mV) @ 1Pa  
 Impedance: 150 ohms  
 Self Noise: 26dBA  
 Max SPL: 125dB, 1% THD  
 Power Requirements: P12, P24, P48, 2.4mA





## CTM-77, CTM-77LS (w/o switch) Handheld Cardioid Condenser Microphones

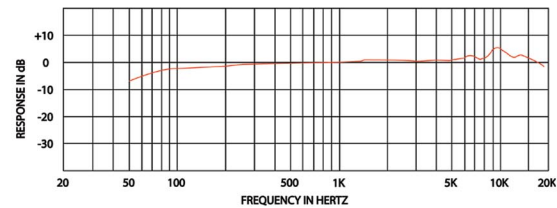
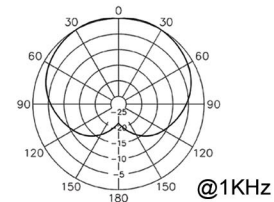
The CTM-77 is a durable, professional handheld condenser mic for dynamic vocalists that "work" their proximity to and from the microphone. It's smooth extended bandwidth, high output and cardioid pickup pattern make it ideal for use with in-ear monitoring systems and may be considered for speakers or vocalists that are not "focused" and may drift from the microphone.

### Packages Also Available:

**CTM-77MC** - CTM-77 with 25' professional XLR type audio cable

**CTM-77LSMC** - CTM-77LS with 25' professional XLR type cable

- Extended frequency response for professional performance
- Cardioid-directional for rejection of feedback or unwanted ambient sounds
- Low noise, transformerless electronic design
- Multi-stage Flex-Form™ hardened steel grille and pop filter
- Impact Noise Rejection System (I.N.R.™)
- Non-reflective, durable soft touch finish
- Electronically noiseless switch (CTM-77)
- Includes zipper pouch & stand adapter



### Specifications

Operating Principle: Electret Condenser  
 Polar Pattern: Cardioid  
 Frequency Response: 50Hz - 18kHz  
 Sensitivity: -35dBV (18mV) @ 1Pa  
 Impedance: 500 ohms  
 Self Noise: 22dBA  
 Max SPL: 132dB, 1% THD  
 Power Requirements: P12, P24, P48, 5mA

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## CTM-55B, CTM-55BLS (w/o switch) Handheld Supercardioid Dynamic Microphones

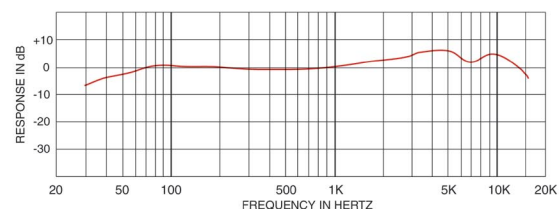
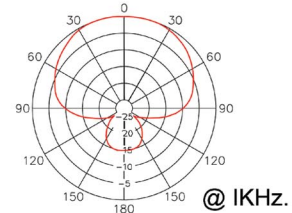
The CTM-55B is a durable, professional, handheld dynamic mic for use in high volume performance or presentation environments. Providing a tighter pattern than cardioid the CTM-55B is best suited for speakers or vocalists that remain in close proximity to the microphone. High feedback rejection for use with loud stage monitor speaker systems.

### Packages Also Available:

**CTM-55BMC** - CTM-55B with 25' professional XLR type audio cable

**CTM-55BLSMC** - CTM-55BLS with 25' professional XLR type cable

- Extended frequency response for professional performance
- Supercardioid-directional for rejection of feedback or unwanted ambient sounds
- High output design with neodymium magnet element
- Multi-stage Flex-Form™ hardened steel grille and pop filter
- Impact Noise Rejection System (I.N.R.™)
- Non-reflective, durable soft touch finish
- Electronically noiseless switch (CTM-55B)
- Includes zipper pouch & stand adapter



### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Supercardioid  
 Frequency Response: 50Hz - 16kHz  
 Sensitivity: -54dBV (2mV) @ 1Pa  
 Impedance: 200 ohms



## CTM-44, CTM-44LS (w/o switch) Handheld Cardioid Dynamic Microphone

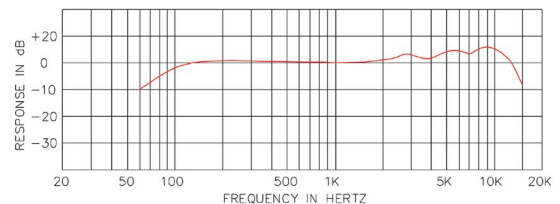
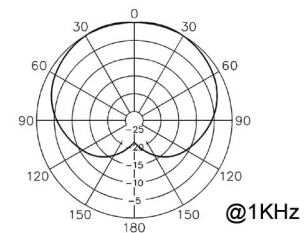
The CTM-44 is a durable, professional, handheld, cardioid, dynamic microphone for performance and presentation applications. In performance spaces the CTM-44 may be used with either in-ear monitor systems or stage speaker monitor systems. The CTM-44 features standard performance characteristics and features to satisfy today's most demanding professionals.

### Packages Also Available:

**CTM-44MC** - CTM-44 with 25' professional XLR type audio cable

**CTM-44LSMC** - CTM-44LS with 25' professional XLR type cable

- Natural frequency response for versatile applications; vocal performance and speech
- Cardioid-directional for rejection of feedback or unwanted ambient sounds
- High output design with neodymium magnet element
- Multi-stage Flex-Form™ hardened steel grille and pop filter
- Impact Noise Rejection System (I.N.R.™)
- Non-reflective, durable soft touch finish
- Electronically noiseless switch (CTM 44)
- Operates on 9-52 volts phantom power
- Includes zipper gig bag & stand adapter



### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Cardioid  
 Frequency Response: 80Hz - 15kHz  
 Sensitivity: -50dBV (3.2mV) @ 1Pa  
 Impedance: 600 ohms

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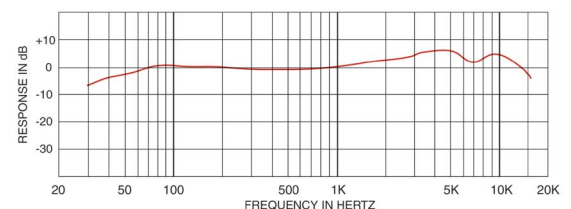
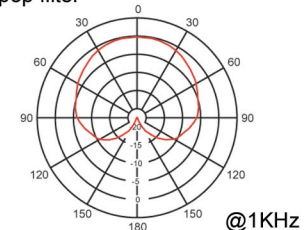
## CTM-33 Handheld Cardioid Dynamic Microphone

The CTM-33 is a handheld, cardioid, dynamic microphone for performance and presentation applications. The CTM-33 features standard performance characteristics and features to satisfy today's most demanding professionals but priced for the budget conscious installer or end user.

### Package Also Available:

**CTM-33MC** - CTM-33 with 25' professional XLR type audio cable

- Natural frequency response for versatile applications; vocal performance and speech
- Cardioid-directional for rejection of feedback or unwanted ambient sounds
- High output design with neodymium magnet element
- Multi-stage Flex-Form™ hardened steel grille and pop filter
- Non-reflective, durable soft touch finish
- Electronically noiseless switch
- Includes zipper pouch & stand adapter



### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Cardioid  
 Frequency Response: 80Hz - 12kHz  
 Sensitivity: -53dBV (2.3mV) @ 1Pa  
 Impedance: 500 ohms



## CTM-1500VP Continuously Variable Pattern 1.1" Large Diaphragm Condenser Microphone

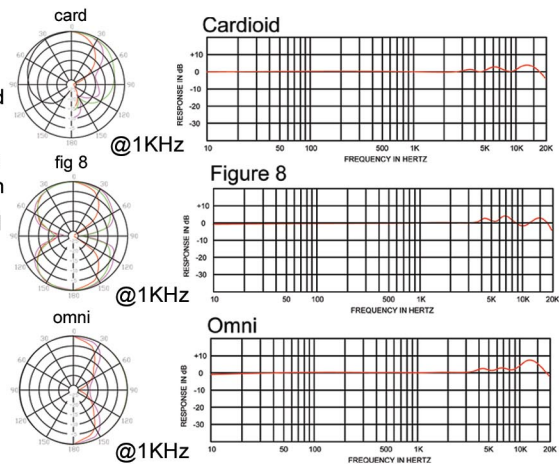


The Astatic CTM-1500VP is a continuously variable pattern side address large diaphragm condenser microphone designed for professional sound reinforcement, recording and broadcast applications. The CTM-1500VP combines a vintage 1.1", gold sputtered, externally biased capsule design with advanced electronics. Continuously variable pattern control allows the operator to "dial in" precise coverage according to desired miking techniques as well "dial down" feedback potential according to mic placement and reflected sound waves. Vintage capsule voicing features a slight rising audio response at 6kHz and 12kHz (cardioid) making the CTM-1500VP the choice for vocal, choral and acoustic instruments in fidelity sound reinforcement as well as recording and broadcast applications.

- Continuously variable pattern selector
- Hi pass filter (6dB/oct @ 100Hz)
- 20dB pad
- Premium 1.1" diaphragm
- Transformerless output for High SPL and extended low frequencies
- Use of Op Amps instead of FETs assure optimum performance and very high gain
- Includes stand adapter, shockmount and zipper pouch

### Specifications

Operating Principle: Externally Biased Condenser  
 Polar Pattern: Continuously Variable  
 Frequency Response: 20Hz - 20kHz  
 Sensitivity: -36dBV (16mV) @ 1Pa  
 Impedance: 200 ohms  
 Self Noise: 11dBA  
 Max SPL: 143dB (20dB pad engaged)  
 Power Requirements: P48, 8mA



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## CTM-1000A Modular Small Diaphragm Condenser Microphone System

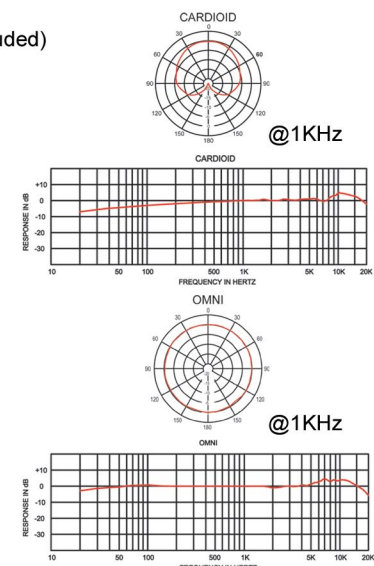


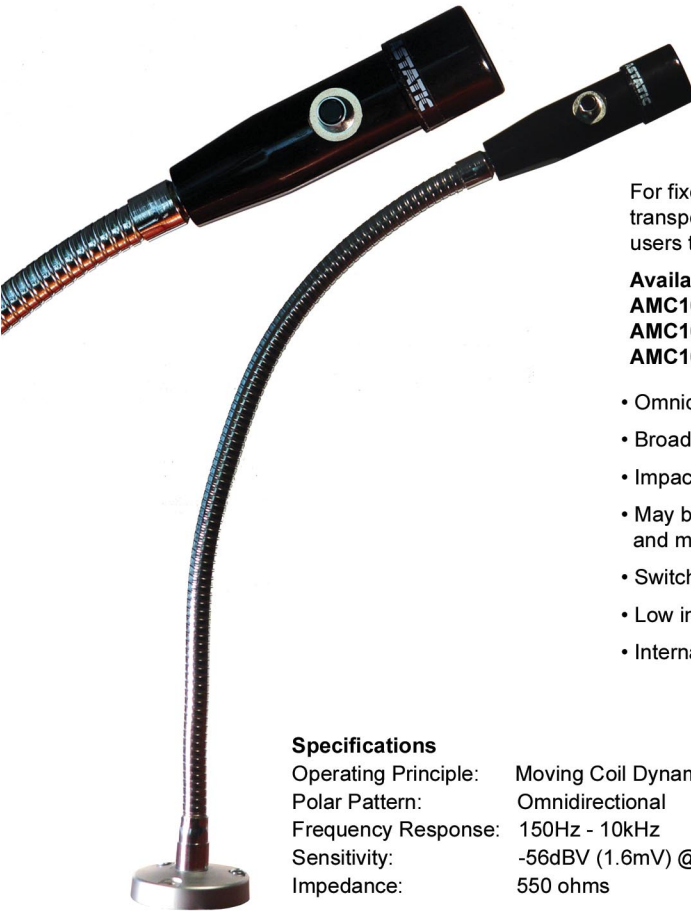
Packaged in a rugged, machined brass housing, the CTM-1000A, a condenser mic, provides transparent, accurate acoustic capture. The low mass 1/2" gold sputtered diaphragm makes the CTM-1000A the preferred choice for high frequency sources rich in transients such as choirs, symphony, cymbals, hi-hats, strings, acoustic guitars, woodwinds and pianos. The transformerless design reduces low frequency distortion at high sound pressure levels. The three position filter and three position pad provide the versatility required in demanding live sound and studio applications. The interchangeable capsules provide both cardioid and omnidirectional pickup patterns for even greater flexibility. The CTM-1000A's accuracy, high SPL capability and size make it a valuable tool in the professional audio environment.

- Modular capsule design (omnidirectional & cardioid included)
- Smooth extended frequency response
- Low noise transformerless output
- 3-position hi-pass filter  
(0, 6dB/oct @ 75Hz & 6dB/oct @ 150Hz)
- 3-position pad (0, -10dB & -20dB)
- Includes stand adapter, shockmount, internal framed windscreens and zipper pouch

### Specifications

Operating Principle: Permanently Biased Condenser  
 Polar Pattern: Cardioid and Omnidirectional  
 Frequency Response: 30Hz - 20kHz  
 Sensitivity: -40dBV (10mV) @ 1Pa  
 Impedance: 85 ohms  
 Self Noise: 23dBA  
 Max SPL: 160dB (20dB pad engaged)  
 Power Requirements: P48, 2mA





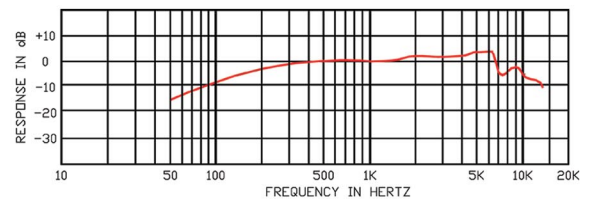
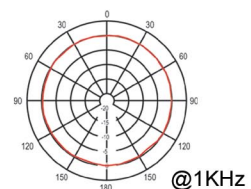
## AMC105SNO Heavy-Duty Omnidirectional Paging Microphone (one DPDT switch)

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, busing and transportation, commercial facilities and dispatch. Omnidirectional for "forgiving" pick-up of users that may not be "focused on" or "committed to" the mic.

### Available Models:

- AMC105SNO-13** - mic head on 13" gooseneck and 2 3/4" flange
- AMC105SNO-19** - mic head on 19" gooseneck and 2 3/4" flange
- AMC105-0074** - mic head on 19" gooseneck and 1 3/4" flange

- Omnidirectional
- Broad, rising frequency response tailored for speech intelligibility and communication
- Impact resistant Cyclocac housing
- May be assembled with choice of heavy-duty goosenecks and mounting flanges in black and chrome (see accessories)
- Switch wired normally open
- Low impedance
- Internal shockmount



### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 150Hz - 10kHz  
 Sensitivity: -56dBV (1.6mV) @ 1Pa  
 Impedance: 550 ohms

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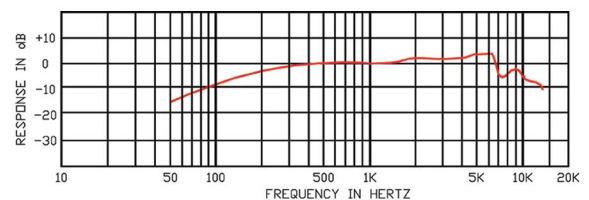
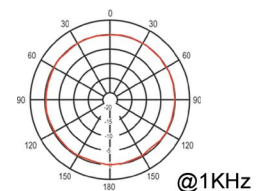
## AMC105SNO-2 Heavy-Duty Omnidirectional Paging Microphone (two DPDT switch)

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, busing and transportation, commercial facilities and dispatch. Omnidirectional for "forgiving" pick-up of users that may not be "focused on" or "committed to" the mic. Two DPDT sealed micro switches with color coded buttons for easy identification, permits paging in two areas, and an all-call feature is obtained by depressing both buttons simultaneously.

### Available Models:

- AMC105-2-19** - mic head on 19" gooseneck and 2 3/4" flange

- Omnidirectional
- Two switches for various paging and zone paging options
- Broad, rising frequency response tailored for speech intelligibility and communication
- Impact resistant Cyclocac housing
- May be assembled with choice of heavy-duty goosenecks and mounting flanges in black and chrome (see accessories)
- Switch wired normally open
- Low impedance
- Internal shockmount



### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 150Hz - 10kHz  
 Sensitivity: -56dBV (1.6mV) @ 1Pa  
 Impedance: 550 ohms



## 119L Heavy-Duty Cardioid Directional Paging Microphone

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, busing and transportation, commercial facilities and dispatch. Cardioid directional pick-up for maximum rejection of feedback or unwanted ambient noise. Should require up-close, focused attention by user.

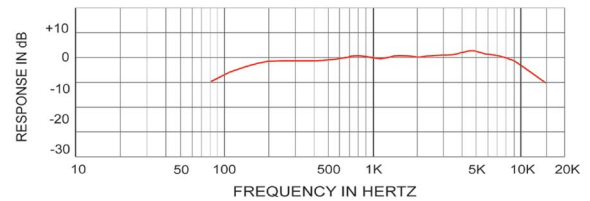
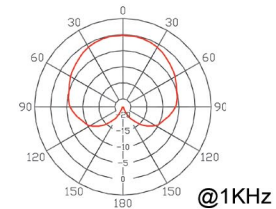
### Available Models:

- 119L-19 - Chrome 119L mic head on 19" gooseneck and 2 3/4" flange
- 119LB - Black 119L mic head

- Cardioid Directional
- Broad, rising frequency response tailored for speech intelligibility and communication
- Solid brass machined head, polished in chrome or black
- May be assembled with choice of heavy-duty goosenecks and mounting flanges in black and chrome (see accessories)
- Low impedance
- Internal shockmount

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Cardioid  
 Frequency Response: 120Hz - 12kHz  
 Sensitivity: -57dBV (1.6mV) @ 1Pa  
 Impedance: 600 ohms



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## 119S Heavy-Duty Cardioid Directional Paging Microphone (with switch)

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, busing and transportation, commercial facilities and dispatch. Cardioid directional pick-up for maximum rejection of feedback or unwanted ambient noise. Should require up-close, focused attention by user.

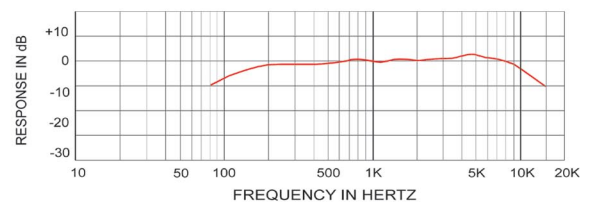
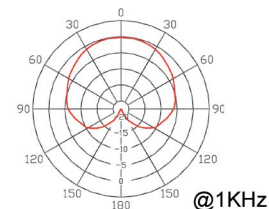
### Available Models:

- 119S-19 - Chrome 119S mic head on 19" gooseneck and 2 3/4" flange

- Cardioid Directional
- Broad, rising frequency response tailored for speech intelligibility and communication
- Solid brass machined head, polished in chrome
- May be assembled with choice of heavy-duty goosenecks and mounting flanges in black and chrome (see accessories)
- Switch wired normally open
- Low impedance
- Internal shockmount

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Cardioid  
 Frequency Response: 120Hz - 12kHz  
 Sensitivity: -57dBV (1.6mV) @ 1Pa  
 Impedance: 600 ohms





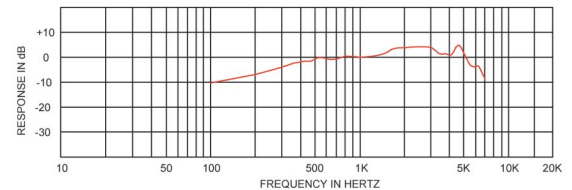
## 611L Dynamic Omnidirectional Palm Held Microphone

The 611L is designed for handheld applications in quality sound installations. The frequency response, especially tailored for voice communications, provides a crisp, clear, highly intelligible sound. The ergonomic teardrop housing is tough and the transducer resists atmospheric extremes. It has a low impedance output and is factory wired normally open. High-cycle DPDT switch and may be rewired if a line shorting function is desired.

- For near proximity talking/paging applications in security, mobile communications, emergency, bus call stations
- Omnidirectional for "forgiving" pick-up of users that may not be focused or "committed" to the mic
- Rugged polyester mic element resists effects of extreme temperature, moisture, most acids, alkaline & solvents
- Low impedance for long cable runs and hum resistance
- Molded high impact resistant Cylolac body
- 75,000 cycle switch
- Permanently attached heavy duty, 4-conductor, 2-shielded, coiled cord with stripped & tinned ends
- Included panel mount hanger-clip

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 200Hz - 6500Hz  
 Impedance: 360 ohms



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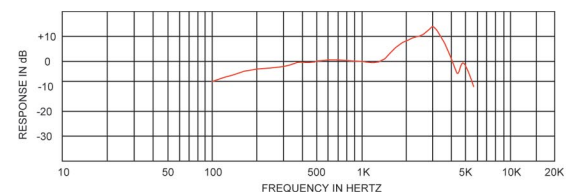
## 631L Dynamic Noise Canceling Palm Held Microphone

The 631L is designed for close talking, handheld applications in quality sound installations where background noise is a problem. It has a tailored frequency response providing clear transmission and maximum intelligibility of speech with 360 degrees minimization of background noise. The ergonomic teardrop housing is tough and the transducer resists atmospheric extremes. It has a low impedance output and is factory wired normally open. High-cycle DPDT switch and may be rewired if a line shorting function is desired.

- 360° elimination of background noise and resists feedback
- Soft curved lip guard to encourage proper spacing for best up-close use
- Rugged polyester mic element resists effects of extreme temperature, moisture, most acids, alkaline & solvents
- Low impedance for long cable runs and hum resistance
- 75,000 cycle switch
- Molded high impact resistant Cylolac body
- Permanently attached heavy duty, 4-conductor, 2-shielded, coiled cord with stripped & tinned ends
- Included panel mount hanger-clip

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Noise Canceling  
 Frequency Response: 200Hz - 5500Hz  
 Sensitivity: -62dBV (0.8mV) @ 1Pa  
 Impedance: 180 ohms



## 651

### Small Format Omnidirectional Palm Held Dynamic Paging Microphone

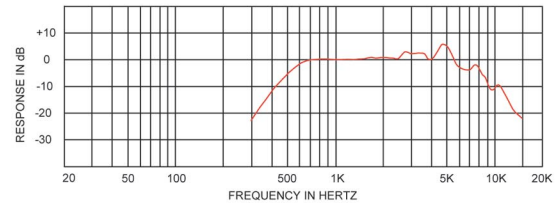


The Astatic model 651 is a small format squeeze-to-talk, dynamic microphone for general, security and life safety audio systems. It has tailored frequency response providing clear transmission and maximum intelligibility of speech. The housing is tough and the transducer resists atmospheric extremes. It has a low impedance output and is factory wired normally open. High-cycle DPDT switch and may be rewired if a line shorting function is desired.

- Small size for inclusion into life safety systems or other paging stations where small size is indicated
- Omnidirectional for "forgiving" pick-up of users that may not be "committed" to the mic
- Low impedance for long cable runs and hum resistance
- Rugged polyester mic element resists effects of extreme temperature, moisture, most acids, alkaline & solvents
- Durable large gauge wire grille
- Molded high impact resistant Cycolac body
- Permanently attached heavy-duty, 4-conductor, 2-shielded, coiled cord with stripped & tinned ends
- Included panel mount hanger-clip

#### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 500Hz - 8KHz  
 Sensitivity: -49dBV (3.6mV) @ 1Pa  
 Impedance: 250 ohms



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## 878HL-2

### Omnidirectional Dynamic Tabletop Paging Microphone

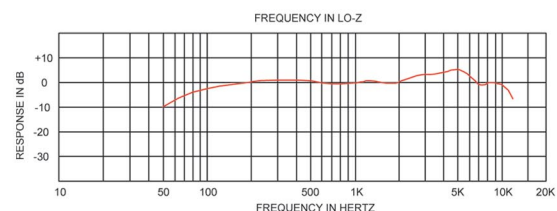


The 878HL-2 is designed for fixed or temporary paging applications such as industrial & commercial facilities, education, sports call announcing and dispatch. The frequency response is broad with a gentle rise in the high midrange for speech intelligibility. The polar pick-up pattern of the mic is forgiving as untrained users may often use the mic. The 878HL-2 utilizes a long life DPDT leaf switch with three types of switch activation; a momentary push bar, a locking on/off switch and lift-to-talk operation. The switch can be easily rewired in the field if a line shorting switch function is desired. The 878HL-2 is manufactured to take abuse and retain its performance and appearance over a long life.

- Omnidirectional pick-up for "forgiving" pick-up of users that may not be "focused on" or "committed to" the mic
- Wide smooth frequency response tailored for speech intelligibility and communication
- Momentary or latching push-to-talk switch bar
- Selectable PTT (push-to-talk) or LTT (lift-to-talk)
- 7', four conductor, stripped and tinned two shielded cable wired normally open for relay control
- Hi/Lo impedance sector
- Four non-skid, non-marring molded "feet"
- Modern styling & heavy-duty lightweight construction

#### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 80Hz - 12KHz  
 LO-Z-Sensitivity: -60dBV (1.0mV) @ 1Pa  
 HI-Z-Sensitivity: -43dBV (7.2mV) @ 1 Pa  
 LO-Z Impedance: 400 ohms  
 HI-Z Impedance: 40K ohms





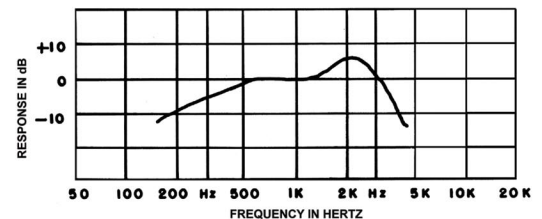
## WM625 & WM625S (with switch) Indoor Omnidirectional Wall Mount Microphones

For intercom and P.A. applications in security access, warehouses, factories, ambient noise sensing, schools and fast food outlets. The WM625 and WM625S are designed especially for mounting to wall outlet boxes. The frequency response is shaped to provide crisp, clear, highly intelligible voice communications. Both models have a self-contained, rugged, low impedance dynamic cartridge assembly. The WM625S has a simple push-to-operate DPDT snap-action switch suitable for almost all switching requirements.

- Frequency response tailored for crisp, clear speech intelligibility and communication
- Push-to-talk DPDT switch (WM625S)
- Low impedance for long cable runs and hum resistance
- Brushed stainless steel duplex plate
- Mounting screws included

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 300Hz - 4KHz  
 Sensitivity: -42dBV (7.9mV) @ 1Pa  
 Impedance: 500 ohms



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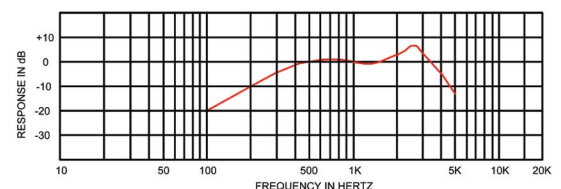
## WM1000 Outdoor Omnidirectional Dynamic Wall Mount Microphone

Designed for applications such as menu boards, drive-up teller and drive-thru windows, security access or any application that requires a rugged weather-resistant wall mounted microphone. The frequency response is specially tailored to increase intelligibility and reduce background noise. The microphone features a die cast zinc body, steel mounting plate and a Mylar moisture barrier. The WM1000 resists extremes in temperature and humidity found in outdoor environments.

- All weather performance
- Frequency response tailored for crisp, clear speech intelligibility and communication
- Sealed zinc cast microphone enclosure
- Non-reflective black anodized steel mounting plate

### Specifications

Operating Principle: Moving Coil Dynamic  
 Polar Pattern: Omnidirectional  
 Frequency Response: 300Hz - 4KHz  
 Sensitivity: -38dBV (7.9mV) @ 1Pa  
 Impedance: 2500 ohms





### 40-116

#### Hi Mass, Heavy-Duty Portable Desk Stand

- Large tactile push switch (electronically noiseless)
- Selectable push-to-talk or push-to-mute (-55dB)
- Direct input connection via top panel-mount 3-pin female XLR type connector
- Special energy absorbing shockmount compound on bottom
- Includes 7' four conductor, two shielded cable terminating in 3-pin male XLR type connector
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector



### 40-117

#### Hi Mass, Heavy-Duty Portable Desk Stand with LED

- Large tactile push switch (electronically noiseless)
- LED Status indicator on switch
- Selectable push-to-talk or push-to-mute (-55dB)
- Direct input connection via top panel-mount 3-pin female XLR type connector
- Special energy absorbing shockmount compound on bottom
- Includes 7' four conductor, two shielded cable terminating in 3-pin male XLR type connector
- Requires phantom power
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector



### 40-118

#### Hi Mass, Heavy-Duty Portable Desk Stand with LED

- Large, soft-touch programmable membrane switch with LED
- LED status indicator on electronically noiseless switch
- Selectable push-to-talk or push-to-mute (-55dB)
- Selectable power up ON or power up MUTED
- Direct input connection via top panel-mount 3-pin female XLR type connector
- Special energy absorbing shockmount compound on bottom
- Includes 7' four conductor, two shielded cable terminating in 3-pin male XLR type connector
- Requires phantom power
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector



### 40-119

#### Hi Mass, Heavy-Duty Portable Desk Stand with Momentary Closure Control

- Large tactile push switch (electronically noiseless)
- Direct input connection via top panel-mount 3-pin female XLR type connector
- Includes 20' four conductor, two shielded cable terminating in 5-pin male XLR-M type connector (Pin 1 = shield, Pin 2 = red (hot), Pin 3 = black (neutral), Pin 4 = green (contact) & Pin 5 = white (contact))
- Special energy absorbing shockmount compound on bottom
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector



## GSM-1 Heavy-Duty Installation Shockmount

- Narrow "footprint" for tight installations
- Hi mass for maximum shock absorption
- Custom formulated Impact Noise Rejection (I.N.R.™) system elastomer bushings
- Will not allow the microphone to "sag" or "droop", even when using longer gooseneck microphones
- Direct input connection via top-mount Switchcraft™ 3-pin XLR-F type connector
- Internal stop pin protects rubber parts from over extension when inserting or removing microphones
- Includes 6' balanced cable terminating in stripped and tinned ends
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector



## FM-1A Installation XLR-F Connector Mounting Flange

- Installation flange with 3-pin female XLR stem mount
- Height 3 3/4" x 2 3/4" diameter
- Bottom of flange or side of stem cable exit
- Includes 6' balanced audio cable terminating in stripped and tinned ends
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector
- Includes mounting screws



## FM-2A Installation XLR-F Connector Mounting Flange

- 3-pin XLR-F connector integrated into mounting flange
- 1 3/4" diameter
- Bottom of flange or side of stem cable exit
- Includes security locking ring to prevent accidental disconnect
- Fits any mini condenser gooseneck mic or other similar mics and attachments with standard XLR-M type connector
- Includes mounting screws



## 40-347 Wall Plate With Single Female 3-Pin Panel XLR Type Connectors

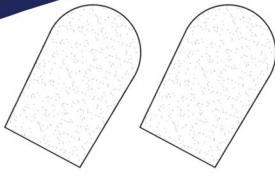
- Brushed stainless steel standard duplex wall plate
- Mounting screws included



## 40-348 Wall Plate With Two Female 3-Pin Panel XLR Type Connectors

- Brushed stainless steel standard duplex wall plate
- Mounting screws included





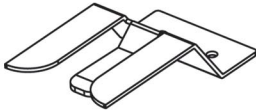
### 40-306

Windscreens replacements for 827A-13 and 827A-17 (2/pk)



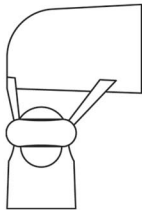
### PF-1A

Large dual windscreen system for high wind environments  
(Fits 910B, 915B & 920B)



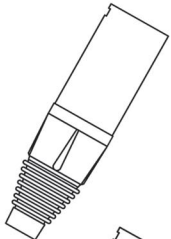
### 40-315

Mounting bracket (all palm-held paging microphones)



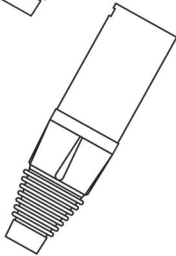
### 40-343

Snap-in, adjustable stand clamp for all CTM microphones



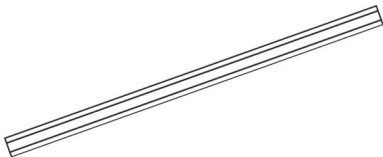
### 40-337

Professional 3-pin connector XLR-F black (Neutrik™)



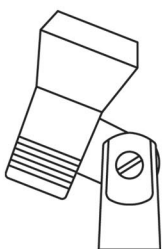
### 40-338

Professional 3-pin connector XLR-M black (Neutrik™)



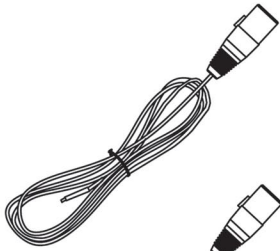
### 40-340

Flex pipe stiffening collar for 827A gooseneck microphones



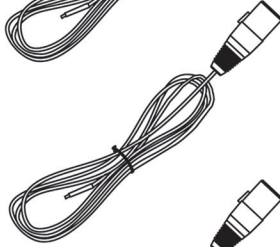
### 40-341

Universal spring loaded "butterfly" microphone holder



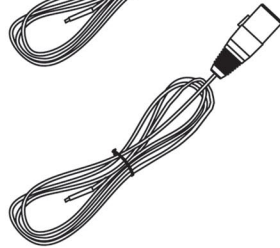
**40-351**

100 ft. heavy-duty cable terminated with professional 3-pin connectors  
XLR-M x XLR-F



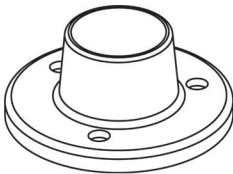
**40-350**

50 ft. heavy-duty cable terminated with professional 3-pin connectors  
XLR-M x XLR-F



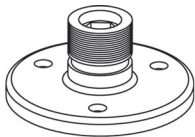
**40-352**

25 ft. heavy-duty cable terminated with professional 3-pin connectors  
XLR-M x XLR-F



**40-211**

Chrome 1 3/4" standard duty flange 5/8" - 27 female thread

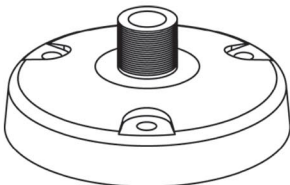


**40-212B**

Black 1 3/4" standard duty flange 5/8" - 27 male thread

**40-212**

Chrome 1 3/4" standard duty flange 5/8" - 27 male thread

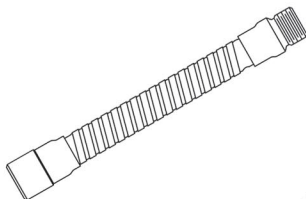


**40-223B**

Black 2 3/4" standard duty flange 5/8" - 27 male thread

**40-223**

Chrome 2 3/4" standard duty flange 5/8" - 27 male thread

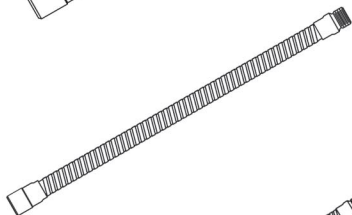


**40-317B**

Black 6" long, heavy-duty gooseneck

**40-317**

Chrome 6" long, heavy-duty gooseneck

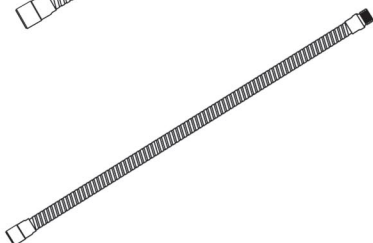


**40-318B**

Black 13" long, heavy-duty gooseneck

**40-318**

Chrome 13" long, heavy-duty gooseneck



**40-319B**

Black 18" long, heavy-duty gooseneck

**40-319**

Chrome 18" long, heavy-duty gooseneck