



*Sessions*  *Live* *Equitek*   
**usb** ACOUSTI-SHIELD **ASTATIC** STAGESELECT™

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# About Us

**C**AD Audio originally took shape as the Astatic Corporation, founded in 1931 by C.M. Chorpeneing and F.H. Woodworth, two ham radio operators with a passion for clean, clear audio transmissions. This passion led them to the development of the highly acclaimed D-104 mic, revolutionary in its ability to perform without static.

This “Astatic” characteristic became the company’s namesake and led to many innovative products including phonograph pickups and cartridges, while also laying foundations for the production of recording heads.

Astatic Commercial Audio Products has continued its growth since then with industry leading solutions for commercial AV applications such as airports, schools, courthouses, Houses of Worship and corporate boardrooms. The company remains key to CAD Audio’s portfolio for today’s integrators, consultants and architects with patented innovations such as Variable Pattern microphones.

CAD (Conneaut Audio Devices) Professional Microphones was initially formed as the Pro Division of the company to serve the emerging recording and live sound markets in the early ‘80s, segments not served by Astatic. Initially, CAD introduced a revolutionary servo circuit console and breakthrough processing products.

The company went on to develop leading-edge high performance studio microphones such as the acclaimed Equitek Series E100, E200, E300, VSM1 and highly coveted VX2. Capitalizing on innovative engineering and home grown capsules/diaphragms, CAD emerged as a leader in recording microphones and literally defined the project studio revolution of the late 1980s and early 1990s.

More recently, CAD Audio has emerged as a multifaceted company with a variety of sub brands that extend to market segments such as Recording, Broadcast, Live Performance & Production, Commercial and Consumer Electronics. These sub brands include the CADLive, Acousti-Shield, StageSelect, USB and Sessions series of products. CAD Audio is also actively engaged in the Wireless Microphone, Wireless In-Ear-Monitor, Studio accessory, Headphone and USB markets.

CAD Audio continues to build upon over 85 years of innovation and success in the audio industry delivering innovative and highly useful solutions for performers, engineers and a wide range of audio professionals.





## 4000 Series Digital Wireless System

CADLive is designed to outperform your expectations and deliver exceptional performance. Engineered to compliment the new generation of exceptional sound systems — The CADLive Series taps our Equitek studio heritage along with our live sound know-how in creating an impactful and easy to use line of mics.

The CADLive 4000 series Digital Wireless features True Diversity operation to minimize multipath interference. Frequency agile design partnered with ScanLink™ technology will precisely scan, select and link to the optimum channel allowing for easy flexible frequency planning.

CADLive wireless features 10, 30, or 50mW transmitter power adjustment and dynamic range >115dB. Receivers and transmitters are equipped with a high definition LCD display and full RF, AF, Battery Life, Mic Sensitivity and RF power metering.

The CADLive handheld transmitter features metal construction and the CADLive D90 Supercardioid dynamic capsule that provides a powerful, smooth and highly articulate profile. The handheld and body pack transmitters also include SoftTouch™ multi-function On-Off/Mute switches. CADLive bodypack transmitters are equipped with CADTone™ circuitry ensuring accurate reproduction of Hi-Z guitar and Lo-Z mic inputs.

Receivers are housed in an all-metal chassis and supplied with single/dual rack ears and a BNC relocation kit. Body pack systems include Equitek E19 earworn and E29 lavalier mics. Both systems are supplied with a heavy-duty carry case.

### Features

- Digital Wireless System
- True Diversity to minimize multipath interference
- Frequency agile operation for maximum frequency plan flexibility
- ScanLink™ technology for instantaneous and automatic channel configuration
- CADTone™ Body Pack input — Optimized Impedance Interface — Hi-Z for Guitar and Lo-Z for mic
- Metal construction Handheld Transmitter equipped with CADLive D90 capsule
- High Contrast LCD displays on TX and RX
- Transmitters feature 10, 30, or 50mW power adjustment to aide in multiple system applications
- 902-928MHz operation free from FCC TV spectrum legislation
- Simultaneous usage of up to 17 systems
- Dynamic Range > 115dB
- AA Batteries with up to 15 Hrs of battery life
- Systems ship with rack ears single/dual BNC relation kit and durable carry case
- Body Pack systems include miniature E19 Earworn, E29 Lav, WXGTR guitar cable
- XLR and ¼" outputs on receiver



### Specifications

Frequency Range	T Band 902 – 928MHz
Frequency Response	40Hz – 15kHz
Dynamic Range	>115dB
Transmitter power	Switchable 10, 30, 50mW
Battery Life	Up to 15 Hrs



### 3000 Series Wireless System

CADLive is designed to outperform your expectations and deliver exceptional performance. Engineered to complement the new generation of exceptional sound systems — The CADLive Series taps our Equitek studio heritage along with our live sound know-how in creating an impactful and easy to use line of mics.

The CADLive 3000 series features True Diversity operation to minimize multipath interference along with CADLock™ Automatic Tone Encoded Squelch to eliminate unauthorized transmissions in the signal path. Frequency agile design when partnered with ScanLink™ technology will precisely scan, select and link to the optimum channel allowing for an easy, flexible frequency plan.

The CADLive handheld transmitter features metal construction and the CADLive D90 Supercardioid dynamic capsule that provides a powerful, smooth and highly articulate profile. The handheld and body pack transmitters also include SoftTouch™ multi-function On-Off/Mute switches. CADLive bodypack transmitters are equipped with CADTone™ circuitry ensuring accurate reproduction of Hi-z guitar and Lo-z mic inputs.

CADLive wireless features 10, 30, or 50mW transmitter power adjustment and dynamic range >110dB. Receivers and transmitters are equipped with a high definition LCD display and full RF, AF, Battery Life, Mic Sensitivity and RF power metering.

Receivers are housed in an all-metal chassis and supplied with single/dual rack ears and a BNC relocation kit. Body pack systems include Equitek E19 earworn and E29 lavalier mics. Both systems are supplied with a heavy-duty carry case.

#### Features

- True Diversity to minimize multipath interference
- CADLock™ Automatic Tone Encoded Squelch eliminates unauthorized interference
- Frequency agile operation for maximum frequency plan flexibility
- ScanLink™ technology for instantaneous and automatic channel configuration
- CADTone™ Body Pack input — Optimized Impedance Interface — Hi-Z for Guitar and Lo-Z for mic
- Metal construction Handheld Transmitter equipped with CADLive D90 capsule
- High Contrast LCD displays on TX and RX
- Transmitters feature 10, 30, or 50mW power adjustment to aide in multiple system applications
- Simultaneous usage of up to 15 systems per frequency band
- Dynamic Range > 110dB
- AA Batteries with up to 15 Hrs of battery life
- Systems ship with rack ears single/dual BNC relation kit and durable carry case
- Body Pack systems include miniature E19 Earworn, E29 Lav, WXGTR guitar cable
- XLR and ¼" outputs on receiver



WX3000



WX3010

#### Specifications

Frequency Range	Q Band 470 – 489MHz N Band 518 – 542MHz R Band 580 – 600MHz
Frequency Response	40Hz – 15kHz
Dynamic Range	>110dB
Transmitter power	Switchable 10, 30, 50mW
Battery Life	Up to 15 Hrs

# STAGESELECT™ IEM

## Stereo Wireless In Ear Monitoring System

Enjoy the exciting performance of the StageSelect™ IEM for your next gig. CAD Audio has been creating high-value product since 1931 and prides itself on supporting and developing the live performer. Our design criterion was straightforward: develop a high-performance wireless In Ear Monitor System that will deliver superior audio performance while supplying advanced frequency agility, capable enough to cope with today's dynamic RF environment — making it both easy to use and exciting to operate.

The StageSelect™ IEM Stereo Wireless In Ear Monitor System features 16 channel frequency agile performance for outstanding connectivity. CADLock™ Automatic Tone Code Squelch eliminates unauthorized interference in RF unfriendly environments. Stereo operation lends flexibility of use — You may send discrete signals to the left or right channel. High performance MEB2 Monitor Earbuds are included to make your listening experience top flight. The MEB2 TruPitch™ Balanced Armature Earbuds provide accurate audio reproduction while the EasyFit™ silicon earmolds provide a custom fit. The metal construction rack mountable transmitter is supplied with rack ears, half wave antenna, antenna relocation kit and sturdy carrying case.

### Specifications

Frequency	Q Band 470 – 498MHz N Band 518 – 542MHz
Audio Frequency Response	40Hz – 16KHz
Audio Input	Combination XLR - 1/4"
Dynamic Range	>101dB
Audio Output Power	100mw into 32 Ohm
Transmit power	30mW
AA Batteries with	>10hrs battery life



# STAGESELECT™

## 1600 Series UHF Handheld System

- 100 Channel UHF Agility for frequency plan flexibility
- Diversity Operation to minimize multipath interference
- ScanLink™ technology for instantaneous “scan” of the RF environment and automatic “link” to the transmitter.
- CADLive D90 Capsule
- CADLock™ Automatic Tone Encoded Squelch to eliminate unauthorized interference.
- Softtouch™ Switches with multicolor LED indicators of On/Mute and Low Battery.
- AA batteries with >15hrs of battery life
- Metal Chassis receiver for a durable and formidable shielded enclosure with included rack ears.



### Specifications

Frequency Range	G Band 542MHz – 564MHz
Audio Frequency Response	40Hz – 15KHz
Dynamic Range	>105dB
Transmit power	30mW
AA Batteries with	>15hrs battery life

# STAGESELECT™

## 1610 Series UHF Bodypack System

- 100 Channel UHF Agility for frequency plan flexibility
- Diversity Operation to minimize multipath interference
- ScanLink™ technology for instantaneous “scan” of the RF environment and automatic “link” to the transmitter.
- CADLock™ Automatic Tone Encoded Squelch to eliminate unauthorized interference.
- Softtouch™ Switches with multicolor LED indicators of On/Mute and Low Battery.
- AA batteries with >15hrs of battery life
- Metal Chassis receiver for a durable and formidable shielded enclosure with included rack ears.
- Includes E19 Equitek miniature earworn mic, WXLAV lav mic & WXGTR guitar cable.





**GXLU Series**  
Wireless Microphone System

The GXLU UHF system features two channels of UHF wireless, also engineered into one chassis. The GXLU receiver is outfitted with XLR and ¼” connectors as discrete outputs and XLR as mix output of the two channels. The receiver also includes RF and AF indicator lights and volume controls. GXLU wireless is also offered with a choice of handheld or bodypack transmitters. All bodypack systems are supplied with guitar cable and condenser headworn mic at no additional charge.

**Specifications**

Frequency Band	500MHz – UHF
Frequency Response	50Hz – 18KHz
Dynamic Range	>105dB
Output Connectors	(2) XLR Balanced, 1 TRS 1/4”
Power Requirements	“AA” size alkaline or rechargeable batteries
Battery Life	>10 hours (alkaline)

**GXLU Wireless Series available as:**

- GXLUHH** – UHF Dual Handheld wireless system
- GXLUHB** – UHF Combo wireless system: one handheld, one bodypack and a receiver (includes WXHW, WXGTR)
- GXLUBB** – UHF Dual Bodypack wireless system (includes [2] WXHW, [2] WXGTR)





**GXLV WIRELESS**  
Wireless Microphone System

The GXLV VHF system features two channels of VHF wireless conveniently engineered into one chassis. It includes XLR and 1/4" discrete outputs and XLR as a mix output of the two channels. The GXLV receiver has RF and AF indicator lights and volume controls. GXLV wireless is offered with a choice of handheld or bodypack transmitters and all bodypack systems are supplied with a guitar cable and a condenser headworn mic at no additional charge.

**Specifications**

Frequency Band	VHF
Frequency Response	50Hz – 18KHz
Dynamic Range	>100dB
Output Connectors	(2) XLR Balanced, 1 TRS 1/4"
Battery Life	>10 hours (alkaline)

**GXLV Wireless Series available as:**

- GXLVHH** – VHF Dual Handheld wireless system
- GXLVHB** – VHF Combo wireless system: one handheld, one bodypack and a receiver (includes WXHW, WXGTR)
- GXLVBB** – VHF Dual Bodypack wireless system (includes [2] WXHW, [2] WXGTR)







**E29 Equitek Broadcast and Production Miniature Lavalier Microphone**

The Equitek Broadcast and Production microphones draw on a renowned talent for building high quality studio microphones coupled with hands-on Broadcast and Production experience.

The E29 Equitek Broadcast and Production miniature lavalier microphone delivers industry leading performance with high sensitivity and low self noise. The E29 miniature design allows for easy inconspicuous placement while providing maximum intelligibility with natural, accurate reproduction. Designed with broadcasters, house of worship user, presenter or theater performer in mind — the E29 overachieves for most any application.

**Specifications**

Operating Principle	Condenser
Pattern	Omni Directional
Capsule Size	2.5mm
Frequency Response	20Hz – 20KHz
Sensitivity	-46dBV (5.0mV) @1Pa
Max SPL	142dB

**E29** – TA4F Terminated for CADAudio

**E29SR** – 3.5mm Terminated for Sennheiser

**E29SL** – TA4F Terminated for Shure

**E29AT** – HRS-4 Terminated for Audio Technica



**E19 Equitek Broadcast and Production Miniature Earworn Microphone**

The E19 Equitek Broadcast and Production miniature earworn microphone delivers industry leading performance with high sensitivity and low self noise. The E19 miniature design allows for easy inconspicuous placement while providing maximum intelligibility with natural, accurate reproduction. Designed with broadcasters, house of worship user, presenter or theater performer in mind the E19 overachieves for most any application. Currently available for CAD Audio Wireless, Shure Wireless, Sennheiser Wireless and Audio-Technica Wireless.

**E19** – TA4F Terminated for CADAudio

**E19SR** – 3.5mm Terminated for Sennheiser

**E19SL** – TA4F Terminated for Shure

**E19AT** – HRS-4 Terminated for Audio Technica

**Specifications**

Operating Principle	Condenser
Pattern	Omni Directional
Capsule Size	2.5mm
Frequency Response	20Hz – 20KHz
Sensitivity	-46dBV (5.0mV) @1Pa
Max SPL	142dB



# W I R E L E S S

## DA4090 Distribution Amplifier

The DA4090 is a high quality antenna distribution solution for use in pro audio applications such as live performance — musical/theatrical — HOW and audio-video integration.

Designed with a net 0dB amplification thereby eliminating split-attenuation. Minimal amplification is applied to reduce the risk of unwanted intermodulation interference.

Integrated DC power distribution conveniently distributes 12VDC to drive up to four CAD Audio receivers.

All antenna connectors are BNC-type for easy plug and play compatibility. The DA4090 comes complete with RF patch cables for four receivers, rack ears and the appropriate power cables.



### Specifications

Frequency Range	UHF 470–960MHz
Impedance	50Ω
Gain	0dB
AC Power	100–240V, 60Hz
DC Output	DC 12–15V, 3.6A
Antenna Power	12V

## ANT100 Whip Dipole Antenna

UHF whip dipole antenna. BNC connector, 50ohm impedance, 2dBi of gain.



## ANT110 Ground-plane Dipole Antenna

UHF Ground-plane dipole antenna. BNC connector, 50 ohm impedance, 3dBi of gain. Supplied with mounting hardware to relocate antenna to exterior of an equipment rack.



## ANT120 Paddle Antenna

UHF LPDA paddle antenna. BNC connector, 50ohm impedance, 7dBi of gain.



## 302 Headworn

Hypercardioid condenser headworn microphone designed with dual-ear comfort ensuring a comfortable fit. The 302 combines high-sensitivity with high sound pressure capability to accommodate successful performances, boardroom to stage. Compatible with all CAD Audio wireless systems.



## WXHW

Wireless Headworn Hyper-Cardioid condenser microphone. Compatible with all CAD Audio wireless systems.



## WXGTR

Heavy duty instrument cable for guitar or bass wireless system. 1/4" male end to CAD TA4F connector. Compatible with all CAD Audio wireless systems.



## 301 Lavalier

Cardioid condenser lavalier microphone designed for high performance where linear response translates to superior gain before feedback. Supplied with clip and windscreen. Compatible with all CAD Audio wireless systems.



## WXLAV

Wireless Lavalier Cardioid condenser microphone. Compatible with all CAD Audio wireless systems.



#### LIVE PERFORMANCE

CADLive is designed to outperform your expectations and deliver exceptional performance. Engineered to complement the new generation of exceptional sound systems — The CADLive Series taps our Equitek studio heritage along with our live sound know-how in creating an impactful and easy to use line of mics.



**D90**  
Supercardioid Dynamic Handheld Mic

The CADLive D90 supercardioid dynamic handheld mic is outfitted with a Trueflex™ diaphragm and PowerGap™ high-gauss neodymium magnets creating a hot and articulate live performance vocal microphone. Engineered for smooth, articulate lead vocal performance in a durable and road-ready design.

**Specifications**

Pattern	Supercardioid
Principle	Dynamic moving coil motor
Frequency Response	50Hz – 16KHz
Sensitivity	-51 dBv (2.8mV) @ 1Pa
Impedance	500 ohms
Max SPL	>150dB



**D89**  
Supercardioid Dynamic Instrument Mic

The CADLive D89 supercardioid dynamic instrument mic is outfitted with a Trueflex™ diaphragm and PowerGap™ high gauss neodymium magnets creating a hot and articulate live performance instrument microphone. Excellent on acoustic and electric instruments — its versatile design makes it a perfect match for drums, guitar cabs, brass and strings.

**Specifications**

Pattern	Supercardioid
Principle	Dynamic moving coil motor
Frequency Response	50Hz – 17KHz
Sensitivity	-50 dBv (2.8mV) @ 1Pa
Impedance	520 ohms
Max SPL	>150dB



**D32**  
Supercardioid Handheld Microphone

The CADLive D32 is a supercardioid dynamic handheld microphone with a QuietTouch™ on/off switch and neodymium capsule. Superior gain before feedback and silent on/off switch make the D32 a perfect choice for vocal performance. You don't have to compromise sound quality or endure noisy on/off switches. Supplied in a 3-pack as the D32X3 with carry case and mic clips.



**Specifications**

Pattern	Supercardioid
Principle	Dynamic moving coil motor
Frequency Response	80Kz – 15KHz
Sensitivity	-51 dBv (2.8mV) @ 1Pa
Impedance	520 ohms
Max SPL	>145dB



**D38**  
Supercardioid Handheld Microphone

The CADLive D38 is a supercardioid dynamic handheld with a neodymium capsule ensuring a hot signal. Durable, all metal construction and articulate the D38 overachieves in most any live sound application from lead vocals to spoken word announcements. Supplied in a 3-pack as the D38X3 with carry case and mic clips.



**Specifications**

Pattern	Supercardioid
Principle	Dynamic moving coil motor
Frequency Response	80Hz – 18KHz
Sensitivity	-53 dBv (2.3mV) @ 1Pa
Impedance	500 ohms
Max SPL	>148dB



### D80, D82, D84

Used individually or in tandem the CADLive D80, D82, D84 may be used to create the custom sound you wish from your guitar cabinets and percussion.

The D80 is a Large Diaphragm Moving Coil Dynamic with a tight Super-Cardioid polar pattern while supplying a hot output — ensuring outstanding performance on even the loudest stages.

The D82 is a Moving Ribbon Dynamic that will give you true ribbon warmth with a bit more sparkle than you might expect. Its exceptional frequency response along and impressive max SPL, make it perfect for delivering your custom tone.

The D84 is a Large Diaphragm Condenser for true studio reproduction in an easy to place design, resulting in a rich, transparent, true to life sound.

#### Specifications

**D80:** Moving Coil Dynamic Super Cardioid  
 Frequency Response 50Hz – 18KHz  
 Sensitivity -48dBV (4.0mV) @1Pa

**D82:** Moving Ribbon Dynamic  
 Ribbon Warmth with Extended Response  
 Frequency Response 30Hz – 20KHz  
 Sensitivity -56dBV (1.6mV) @1Pa  
 Max SPL 140dB@100Hz

**D84:** Externally Polarized Large Diaphragm  
 Cardioid Condenser  
 Rich Transparent True-to-Life Reproduction  
 Frequency Response 20Hz – 18KHz  
 Sensitivity -30dBV (30mV) @1Pa  
 Phantom Power P48, 4mA



### A77

CAD Audio reminisces back to its roots of high design and cutting edge styling's of the A77. Reissuing patent #185,712 as a symbol of CAD Audios 85th anniversary celebration — The A77 reminds us that performance and style are key aspects of an artists success.

The A77 is a large diaphragm dynamic side address microphone equipped with a modern tribute to the original capsule — Updated with PowerGap™ high gauss magnet and a TrueFlex™ diaphragm. The update brings modern performance and results in a hot and articulate acoustic profile.

The A77R brings the vintage ribbon sound to the A77 style. A large format ribbon surrounded by PowerGap high gauss magnets establish A77R as a new standard in live vocal ribbon performance.

- TrueFlex™ diaphragm for articulate response
- PowerGap™ Neodymium magnet for hot signal
- Reimagined retro presentation of a classic

#### Specifications

**A77**  
 Pattern Super Cardioid  
 Frequency Response 30Hz – 15KHz  
 Sensitivity -48dBV (3.56mV) @1Pa  
 Principle Dynamic moving coil motor  
 Impedance 500ohms  
 Max SPL >150dB



### D88

The CADLive D88 Kick Mic blasts its way to the stage firmly reproducing your kick in true Rock and Roll form and function. Equipped with one of the largest capsules made — Outfitted with a TrueFlex™ diaphragm and powered by a PowerGap™ magnet — The D88 is custom tailored for today's kick drum sound.

- TrueFlex™ diaphragm for articulate response
- PowerGap™ Neodymium magnet for hot signal
- Tailored for today's kick drum sound

#### Specifications

**D88**  
 Pattern Super Cardioid  
 Frequency Response 20Hz – 17kHz  
 Sensitivity -65dBV (0.56mV) @1Pa  
 Max SPL >150dB

# RECORDING

## RECORDING

CAD Audio is proud to celebrate more than 85 years in the microphone/transducer design business. In the late 1980's CAD introduced the first studio condensers to offer superior performance at an affordable price. Over the past 25 years, the CAD name has become synonymous with innovative products, great value and exceptional sonic accuracy. Our Recording series offers a broad range of studio condensers for every application. From vocals, stringed instruments and percussion, to guitar cabinets and everything in between, CAD offers the versatility and performance demanded by today's recording professional.





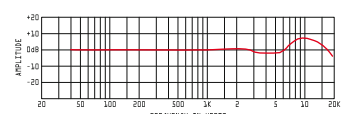
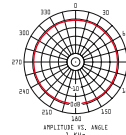
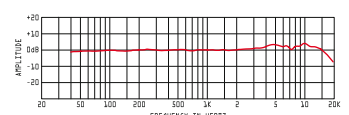
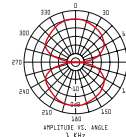
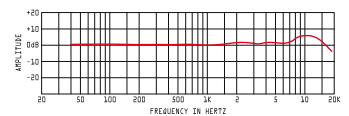
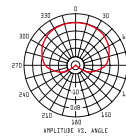
*Equitek*

**E300S**  
**Large Diaphragm Multi-Pattern**  
**Condenser Microphone**

Transparent, airy highs and smooth mids, coupled with a rich, silky low end make the E300S one of our finest studio mics. The 1.1" 24K gold sputtered externally biased dual diaphragm condenser capsule is hand damped by industry artisans for consistent frequency response. A regulated bypass voltage generator for precise output sensitivity, sophisticated laser trimmed op-amp circuitry and open capsule architecture make the E300S a revered classic studio microphone. Shock mount and carrying case included. P48 (48V) phantom power is required.

**Specifications**

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid, Omnidirectional, Figure-of-Eight
Frequency Response	20Hz – 20KHz
Sensitivity	-32dBV (20 mV) @ 1 Pa
Impedance	220 ohms
Max SPL	145dB
Self Noise	12 dBA
Hi-Pass	135Hz, 6dB/oct
Attenuator	20dB
Power Requirements	P48, 8 mA





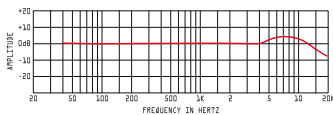
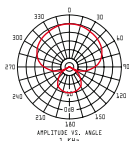
*Equitek*

**E100S**  
Supercardioid Condenser Microphone

Engineered and built in the USA to the highest quality standard, the new Equitek E100S large-diaphragm supercardioid condenser mic has the smooth vintage tone with full-bodied low end CAD is known for. The E100S features a bootstrapped, full differential Quadra-FET™ front-end to ensure high sensitivity and low distortion. A nickel-plated one-inch capsule delivers accurate phasing when miking instruments and a full, rich tone for vocals that is enhanced by the microphone’s extended low-end frequency response. CAD’s proprietary circuitry preserves all of the warmth and detail demanded by leading artists and engineers. Additional features include an 80Hz hi-pass filter and a 10 dB pad. RoHS compliant, the E100S also features exceptional RF immunity. P48 (48V) phantom power is required. Ideal for recording vocals, percussion, acoustic instruments and everything in between, the E100S is versatile enough to deliver exceptional performance on stage and in the studio. Supplied in a high quality cherry wood carrying case, the E100S also includes a stealth shock mount.

**Specifications**

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Supercardioid
Frequency Response	40Hz – 18KHz
Sensitivity	-30dBV (28 mV) @ 1 Pa
Impedance	140 ohms
Max SPL	150dB (pad engaged)
Self Noise	3.7 dBA
Hi-Pass	80Hz, 6dB/oct
Attenuator	10dB
Power Requirements	P48, 2 mA



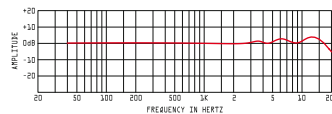
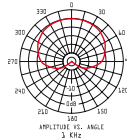
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**M179**  
Variable Pattern Condenser Microphone

The M179’s continuously variable pattern control allows the blending of patterns from omni to hypercardioid to figure-of-eight. The M179 features a dual diaphragm version of our legendary E300 capsule and an externally biased design with a 24k gold sputtered 1.1” diaphragm. Swivel mount, shock mount and carrying case included.

**Specifications**

Operating Principal	Externally-Biased Condenser
Polar Pattern	Infinitely Adjustable
Frequency Response	20Hz – 20KHz
Sensitivity	-36dBV (16 mV) @ 1 Pa
Impedance	200 ohms
Max SPL	143dB (pad engaged)
Self Noise	11dBA
Hi-Pass	100Hz, 6dB/oct
Attenuator	20dB
Power Requirements	P24, P48, 8 mA







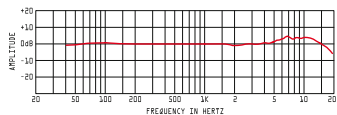
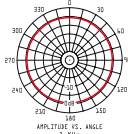
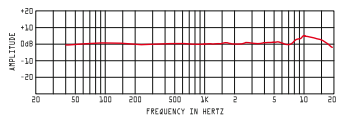
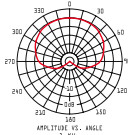
*Equitek*

**E70**  
Modular Dual-Capsule  
Condenser Microphone

Why decide when you can have both? Omnidirectional capsule for flat near field and ambience. Cardioid capsule for proximity boost and off-axis rejection. Capture your instrumentation with exacting detail. Features include field-effect detection, transformerless drive, dual-frequency hi-pass filter and two-position attenuator. Elastic shock mount, stand clamp and windscreen are included. P48 (48V) phantom power is required.

**Specifications**

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid, Omnidirectional
Frequency Response	20Hz – 20KHz
Sensitivity	-39dBV (11 mV) @ 1 Pa
Impedance	85 ohms
Max SPL	145dB (pad engaged)
Self Noise	23dBA
Hi-Pass	75Hz & 150Hz, 6dB/oct
Attenuator	10dB & 20dB
Power Requirements	P48, 2 mA



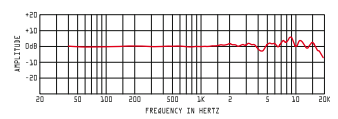
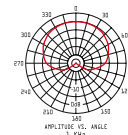
*Equitek*

**E60**  
Cardioid Condenser Microphone

Externally-biased point-source transduction with high-power transformerless drive in a bulletproof road-ready housing. Features include three-frequency hi-pass filter, 10dB attenuator and integral stand clamp. P24 (24V) or P48 (48V) phantom power is required.

**Specifications**

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	30Hz – 20KHz
Sensitivity	-40dBV (10 mV) @ 1 Pa
Impedance	300 ohms
Max SPL	140dB (pad engaged)
Self Noise	22dBA
Hi-Pass	40Hz, 85Hz & 150Hz, 6dB/oct
Attenuator	10dB
Power Requirements	P24, P48, 5 mA





Black Pearl

## G·L

### GXL3000 Multi-Pattern Condenser Microphone

The GXL3000 is a large multi-pattern (cardioid, omni, figure-of-eight) dual diaphragm design. Features include a 100Hz hi-pass filter and 10 dB pad. Shock mount and vinyl pouch included.

#### Specifications

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid, Figure-of-Eight, Omnidirectional
Frequency Response	25Hz – 20KHz
Sensitivity	-36dBV (13 mV) @ 1 Pa
Impedance	200 ohms
Max SPL	135dB (pad engaged)
Self Noise	18dBA
Hi-Pass	100Hz, 6dB/oct
Attenuator	10dB
Power Requirements	P48, 3.5 mA



Black Pearl

## G·L

### GXL2200 Cardioid Condenser Microphone

The GXL2200 is a large diaphragm condenser microphone with a cardioid pattern. Shock mount and vinyl pouch included.

#### Specifications

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	25Hz – 20KHz
Sensitivity	-35dBV (16 mV) @ 1 Pa
Impedance	75 ohms
Max SPL	130dB
Self Noise	19 dBA
Hi-Pass	100Hz, 6dB/oct
Power Requirements	P48, 3 mA



Black Pearl

## G·L

### GXL1200 Cardioid Condenser Microphone

The GXL1200 is a small diaphragm condenser microphone with a cardioid pattern. Ideal for miking acoustic instruments. Clip, windscreen and vinyl pouch included.

#### Specifications

Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	25Hz – 20KHz
Sensitivity	-35dBV (16 mV) @ 1 Pa
Impedance	100 ohms
Max SPL	135dB
Self Noise	17dBA
Power Requirements	P48, 4 mA





**GXL**  
**GXL2200SP**  
**Studio Pack**



Black Pearl

Contains one GXL2200 large diaphragm condenser, one GXL1200 cardioid condenser and one EPF5A pop filter. Shock mount and mic clip included.



**GXL**  
**GXL3000SP**  
**Studio Pack**



Black Pearl

Contains one GXL3000 large diaphragm multi-pattern condenser, one GXL1200 cardioid condenser and one EPF5A pop filter. Shock mount and mic clip included.





## ACOUSTI-SHIELD AS16 Stand Mounted Acoustic Enclosure

### Features

- The Acousti-shield AS16 is constructed from a high quality 16 gauge perforated metal shield mated to 30mm high density micro cell acoustic foam, resulting in a dry recording environment.
- The Acousti-shield AS16 reduces reflections, echo and attenuates unwanted environmental acoustic interference.
- Innovative design allows for pencil condensers as well as dynamic instrument mics to be used in both recording and live environments.
- The Acousti-shield AS16 is an essential tool for enhanced performance and a vital accessory for the professional musician.
- Microphone not included.



## ACOUSTI-SHIELD VOXPOP VP1

### Features

- Double-layer Acoustic Nylon is highly effective at extinguishing plosives.
- High quality metal construction gooseneck and stand clamp allows for precise placement
- Sonically Transparent



## ACOUSTI-SHIELD AS22 Foldable Stand Mounted Acoustic Enclosure

### Features

- The Acousti-shield AS22 is constructed from a high quality 16 gauge perforated stainless steel shield mated to 53mm high density micro cell acoustic foam, resulting in a dry recording environment.
- The Acousti-shield AS22 reduces reflections, echo and attenuates unwanted environmental acoustic interference.
- Innovative foldable design allows for portability and positioning flexibility.
- The Acousti-shield AS22 is supplied with mounting hardware that adapts to most microphones for easy, flexible placement.

## ACOUSTI-SHIELD

### AS32Flex

#### Foldable Stand Mounted Acoustic Enclosure

The Acousti-shield AS32Flex was developed as an effective accessory for the home recording professional. When effectively utilized, it can substantially reduce unwanted reflections, echo flutter and unwanted environmental acoustic interference. A trouble-free design results in an easy to use, highly flexible device, while not sacrificing stand mounted stability. The Acousti-shield AS32Flex is constructed from high quality stainless steel and high density micro cell acoustic foam. The Acousti-shield AS32Flex is supplied with mounting hardware to adapt to most



microphones for easy, flexible placement. The Acousti-shield AS32Flex is an essential tool for enhanced performance and a vital accessory for the professional musician.

#### Features

- The Acousti-shield AS32Flex is constructed from a high quality 16 gauge perforated stainless steel shield mated to 53mm high density micro cell acoustic foam, resulting in a dry recording environment.
- The Acousti-shield AS32Flex reduces reflections, echo and attenuates unwanted environmental acoustic interference.
- An innovative advanced mounting design allows for a maximum positioning stability even when mated to an economy mic stand.
- Designed with a heavy duty adjustable hinge the AS32Flex is ready for custom applications and improves portability.

## ACOUSTI-SHIELD

### AS32

#### Stand Mounted Acoustic Enclosure

The Acousti-shield 32 was developed as an effective accessory for the home recording professional. It can reduce unwanted reflections, echo flutter and unwanted environmental acoustic interference. A trouble-free design results in an easy to use, highly flexible device, while not sacrificing stand mounted stability. The AS32 is an essential tool for enhanced performance and a vital accessory for the professional musician.

#### Features

- The AS32 reduces reflections, echo and attenuates unwanted environmental acoustic interference.
- Dual stage acoustic material of 53mm high density micro cell acoustic foam and high quality absorptive wool layer provide ultimate performance.
- The AS32 is constructed from a high quality 16-gauge perforated stainless steel shield.
- Advanced mounting design allows for maximum positioning stability even when mounted to an economy mic stand.
- Accommodates a variety of microphone designs and allows for creative control and a tailored acoustic result.
- Portable design for easy studio placement and simplified remote recording.
- Improved Innovative design with 6-way adjustability, for optimal mic positioning.





**STAGE7**  
7 Piece Drum Mic Pack

Includes three D29 dynamic tom mics, one D19 dynamic snare mic, both with integrated drum clips, one D10 dynamic kick drum mic with clip, and two C9 overhead condensers with clips. Protective carrying case included.



**TOURING7**  
7 Piece Premium Drum Mic Pack

The Touring7 is an assortment of the finest percussion mics CAD offers in one premium drum microphone pack. Includes four TSM411 dynamic tom/snare mics, one D12 dynamic kick drum mic, and two GXL1200BP overhead condensers. The Touring7 comes with clips for all the mics plus four DMC-1 drum mounting clips for your toms and snare. Protective carrying case included.

**STAGE4**  
4 Piece Drum Mic Pack

Includes two D29 dynamic tom mics, one D19 dynamic snare mic, both with integrated drum clips, and one D10 dynamic kick drum mic with clip. Protective carrying case included.





**C9**  
Cardioid Condenser Microphone

Designed for drum overheads, high hat, ride cymbal and stringed instruments, the C9 cardioid condenser microphone captures the subtle nuance of acoustic instruments and the presence and attack of cymbals. (C9S pair)

**Specifications**

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	40Hz – 13KHz
Sensitivity	-41dBV (8.9 mV) @ 1 Pa
Impedance	150 ohms
Max SPL	140dB
Self Noise	27dBA
Power Requirements	P12, P24, P48, 5mA



**TSM411**  
Supercardioid Neodymium Dynamic Microphone

A versatile multi-purpose percussion/instrument microphone, the TSM411 incorporates “dual point” suspension to maximize sonic performance and ensure excellent shock isolation and ballistic stability critical to the successful reproduction of toms, snares, cymbals, congas, and guitar amps. The TSM411 has an open, accurate sound.

**Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Supercardioid
Frequency Response	100Hz + 15KHz
Sensitivity	-56dBV (1.6 mV) @ 1 Pa
Impedance	310 ohms



**KBM412**  
Cardioid Neodymium Dynamic Microphone

The KBM412 is specifically designed for low frequency sources producing extra punch when miking kick drums. Isolation mic clip included.

**Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Cardioid
Frequency Response	30Hz – 12KHz
Sensitivity	-66dBV (.5 mV) @ 1 Pa
Impedance	60 ohms

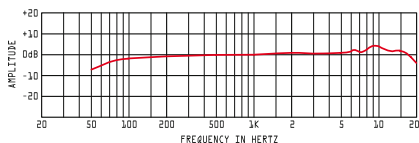
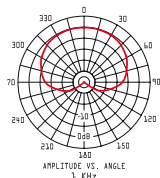


**C195**  
Cardioid Handheld Condenser Microphone

A low noise Electret condenser equipped with CAD’s I.N.R-3™ Impact Noise Reduction system — a microphone fit for any stage.

**Specifications**

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	55Hz – 20KHz
Sensitivity	-35dBV (18 mV) @ 1 Pa
Impedance	500 ohms
Max SPL	132dB (pad engaged)
Self Noise	22dBA
Power Requirements	P12, P24, P48, 5mA

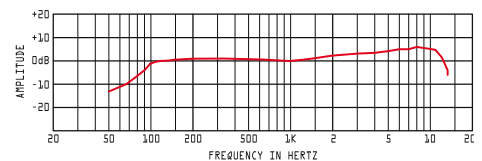
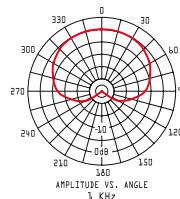


**CAD12**  
Cardioid Handheld Dynamic Microphone

- On/Off Switch

**Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Cardioid
Frequency Response	80Hz – 13KHz
Sensitivity	-56dBV (3.2 mV) @ 1 Pa
Impedance	500 ohms



# HEADPHONES



## HEADPHONES

CAD Audio continues its heritage of world class studio products with the Sessions™ series of headphones. Matched to complement your needs — Studio, Live or Playback.

Taking advantage of nearly eight decades of audio expertise, the Sessions™ headphones deliver exceptional audio reproduction with the legendary performance, durability and comfort you expect from CAD Audio.



# H E A D P H O N E S

## Sessions™

### MH510 Studio Headphones

The Sessions™ MH510 is the result of a decade long collaboration of experience and professional audio expertise. Conceptualized and designed for the accomplished performer — Studio, Live or Playback — Get ready to experience your favorite tracks the way the artist intended. The Sessions™ MH 510 produce an articulate frequency response with extended lows, smooth mids and life like highs. Sound Pressure Level capability rivaling a concert experience. Four colors to choose from: Black, White/Red, White/Gold, White/Chrome, and Black/Orange for the look and style your session deserves.

#### Specifications

Frequency Response	10Hz – 24,000KHz
SPL	103dB
Max Input	3000mW
Impedance	26 ohms
Driver Size	50mm Neodymium
Cable Length	Straight – 10 feet, Coiled – 3.5+ feet

WHITE/RED  
MH510W

BLACK/ORANGE  
MH510OR



WHITE/GOLD  
MH510GD

BLACK  
MH510

#### Artists using Sessions™ MH510 Headphones

Disashi Lumumba-Kasongo	Buck Dharma/Blue Oyster Cult	Aux88	Supa Dups/Producer Bruno Mars
Karmin	SOJA	Hay Bale Studios	Luxor/FOH: Carrott Top, Dan O'Leary
Phil Buckman/Filter	Bad Veins	Walk off the Earth	Brandon Coleman/Alicia Keys
LOU	KROK	Gov't Mule/Warren Haynes	Cabo Wabo Cantina
Bonnaroo Festival	Dan Aykroyd	LAWIM	Fred Wreck (Nasser)/Snoop Dog, Britney Spears, Hillary Duff
Murray Langston	Zac Brown Band	Eric Clapton Crossroads Festival	Jon Garber/FOH: Band Perry, Rascal Flatts, Brad Paisley
Eric Nicolau/Bridgit Mendler	3 Doors Down	Kimberly Thompson/Beyonce	
OffSpring/Petty Cash	John Oates/Hall & Oates	Nick Cooper Studio/Vocal Store LA	
Joss Stone/John "Skins" Godenzi	Trace Adkins/Jon Coleman	House of Blues	
Motown the Musical	DJ Yella/NWA	Kimberly Phillips/Playmate; Sept '09	
Sharon Aguilar/Cee Lo Green	Johnny Winter	Red Hot Chili Peppers/Paul Binder	
Steve LaCerra/FOH	Circle House Studios	Jillette Johnson	





**HA4**  
Four Channel Stereo  
Headphone Amplifier

The HA4 is a compact stereo headphone amplifier featuring four discrete channels with individual volume controls. Exceptional signal-to-noise ratio ensures optimum clarity and offers a transparent reproduction of your session. The HA4 is an essential tool for enhanced listening performance and a vital accessory for the recording musician. Includes power supply and RCA female to 1/4" TRS adaptor.

**Specifications**

Frequency Response	20Hz – 50KHz
S/N Ratio	>110dBA
Maximum Input Level	+16dBu
Output Impedance	47 ohms
Output Power	50mW



**MH210**  
Studio Headphones

The CAD Audio MH210W is a closed back, circumaural, precision built studio headphone. The MH210W is equipped with 40mm neodymium drivers offering extended frequency response while delivering powerful sound. Ultra-soft leather earpads outfitted with high-density memory foam provide hours of fatigue free listening comfort. The MH210W is an essential tool for enhanced studio performance and a vital accessory for the professional musician.

**Specifications**

Frequency Response	15Hz – 22KHz
Sensitivity	100dB @ 1mW
Driver	45mm Neodymium
Maximum Power Rating	1000 mW
Impedance	38 ohms



**MH320**  
Studio Headphones

The CAD Audio MH320 is a closed back, circumaural, precision built monitor headphone. The MH320 is equipped with 45mm neodymium drivers offering extended frequency response while delivering exception detail and clarity. Crafted from high-grade stainless steel, manganese and aluminum, the MH320 ensures years of durability. Ultra-soft leather earpads outfitted with high density memory foam provide hours of fatigue free listening comfort. The MH320 is an essential tool for enhanced studio performance and a vital accessory for the professional musician.

**Specifications**

Frequency Response	10Hz – 26KHz
Sensitivity	101dB @ 1mW
Driver	45mm Neodymium
Maximum Power Rating	2000 mW
Impedance	36 ohms



**DH100**  
Drummer Isolation Headphones

The DH100 is a high output stereo isolation headphone with extended bass frequency response. It is equipped with 50mm neodymium drivers for exceptional detail and clarity. It enables the musician to monitor music or a click track during a recording session or live performance with superior clarity while attenuating ambient noise by 19dB. The DH100 is an essential tool for enhanced performance, rehearsal and recording. One meter cord with 1/4" and 1/8" connectors included.

**Specifications**

Frequency Response	10Hz – 20KHz
Sensitivity	105dB @ 1mW
Driver	50mm Neodymium
Maximum Power Rating	500 mW
Ambient Noise Reduction	19dB



**MH110**  
Studio Headphones

The CAD Audio MH110 is a circumaural, precision built monitor headphone. The MH110 is equipped with 50mm neodymium drivers offering extended frequency response while delivering exceptional detail and clarity. Designed with an easy-fold, comfort-fit headband allowing for convenient storage and hours of fatigue-free listening, the MH110 is an essential tool for enhanced studio performance and a vital accessory for the professional musician.

**Specifications**

Frequency Response	18Hz – 18KHz
Sensitivity	112 @ 1mW
Driver	50mm Neodymium
Impedance	32 ohms



**MH100**  
Closed-Back Headphones

The CAD Audio MH100 is a closed-back, midsized, precision built headphone. The MH100 is equipped with neodymium drivers offering extended frequency response while delivering detail and clarity. Designed for comfort and isolation the MH100 will outperform expectations. The MH100 is an essential tool for enhanced studio performance and a vital accessory for the professional musician.

**Specifications**

Frequency Response	20Hz – 18KHz
Sensitivity	98dB @ 1mW
Driver	40mm Neodymium
Maximum Power Rating	500 mW
Impedance	38 ohms

# USB AUDIO

usb

## USB AUDIO

CAD Audio continues to lead the industry with compelling USB devices. The USB offering includes mics and audio devices for the professional, traveling, or everyday casual user in any environment. CAD offers a variety of innovative, affordable USB plug and play solutions designed around evolving technology.



# usb

## GXL2600USB

### USB Large Diaphragm Studio Condenser Microphone

The GXL2600USB Large Diaphragm Studio Condenser Microphone features the Aoedein™ 1" large diaphragm capsule that delivers full range studio fidelity and outstanding transient response. The Aoedein™ capsule is then paired with CAD's PureTone™ a/d converter further ensuring an accurate and efficient signal path. The GXL2600USB is supplied with a studio quality shock mount, desk stand and cable.

#### Specifications

Principle	Aoedein™ 1" Large Diaphragm USB Condenser
Polar pattern	Cardioid
Frequency Response	20Hz – 20KHz
Sensitivity	-35dB
Equivalent Noise Level	≤15dB (A Weight)
Max SPL	135dB
Connector	USB connector
Windows 8 and Mac Compatible	



# usb

## ZOE

### USB Condenser Microphone with TrakMix™ Headphone Monitoring

Zoe leaps onto the scene of your usb creative endeavors with style and expression. Aggressively reproducing audio with finesse and custom flair — Zoe debuts with the TrakMix™ chip that delivers precision headphone monitoring. Express your creative edge with Zoe.

#### Specifications

Principle	Condenser USB with TrakMix™ Headphone Output
Pattern	Unidirectional
Frequency Response Mic	50Hz – 16KHz
Sampling and bit rate	48kHz 16 bit
Headphone Frequency Response	20 – 20kHz
Headphone Output	300mW
Windows 8 and Mac Compatible	



U S B

# usb

## U37

### USB Cardioid Condenser Studio Recording Microphone

Record directly to your computer using this large condenser microphone with USB output. Smooth, extended frequency response is excellent for singing, speech and instrument recording. -10dB overload-protection switch minimizes distortion from loud sound sources. Bass reduction switch reduces room noise.

Tripod stand and USB cable included. Use the U37 for podcasting, audio for video or recording to your favorite audio editing software. PC and Mac compatible.



**CHAMPAGNE**  
U37



**ORANGE AND BLACK**  
U37SE-OR

**CANDY APPLE RED**  
U37SE-CA





## usb

### U1 USB Cardioid Dynamic Microphone

Record directly to your computer with this easy to use cardioid dynamic handheld microphone with USB output. On/off switch for quickly muting the microphone. Tripod stand and USB cable included. Use the U1 for podcasting, audio for video or recording to your favorite audio editing software. PC and Mac compatible.



## usb

### U7 USB Omnidirectional Condenser Tabletop Recording Microphone

Plug into your computer and start recording. Designed for home and office use with a frequency response tailored for speech. Excellent for laptops. Dictate meeting notes. Add audio to slide presentations. Great for video conferencing, podcasting, and Skyping. 10' USB cable included. PC and Mac compatible.



## usb

### U2 USB Stereo Headphones with Cardioid Condenser Microphone

Use the U2 for VoIP, language labs, gaming, podcasting or personal audio playback. Condenser microphone is mounted on a flexible gooseneck boom for easy positioning. Headphone transducers provide clean, accurate sound reproduction needed for today's digital audio sources. Headphones are light weight and can be easily cleaned with a light alcohol based cleaner. USB cable and foam windscreens is included. PC and Mac compatible.



## usb

### U9 USB Cardioid Condenser MiniMic

The U9 USB MiniMic is a compact microphone solution for recording on the go. It features a low-profile compact design and a 3.5mm (1/8") headphone jack for playback. The 180 degree swivel and cardioid capsule allows precise placement and maximum sound quality while Podcasting, Skyping, VoIP or recording music. The power LED indicator when the mic is on and operational.

# INSTALLED SOUND



## ASTATIC

### ASTATIC COMMERCIAL

The Astatic Commercial Series continues to offer unique products for the AV Systems Integrator, Sound Contractor, Design Consultants, and Engineers. Astatic Commercial products feature industrial grade ruggedness, durability and reliability. This series is designed for years of dependable operation in higher education, government, house of worship and corporate AV applications. Features such as Variable Pattern Control, RF Resistant Architecture, Logic Compatibility, and external contact closures are only a few of the integrator friendly features found in the Astatic Commercial series.



1600VP



1700VP

1800VP

## 1600VP / 1700VP / 1800VP Continuously Variable Pattern Condenser Microphone System with Remote Polar Control

The 1600VP is a continuously variable pattern condenser microphone system with remote polar control. The variable polar pattern with remote control allows the user to precisely adjust the shape of the pick-up pattern for best performance from a remote location. Utilizing a two-conductor shielded cable (max length 2,000 feet) between the microphone head and the pattern-control box, the user can adjust the polar pattern in real time without changing capsules, microphone positions, or inducing noise in the audio chain.

Special attention has been given to the frequency response and sensitivity of the microphone while utilizing the variable pattern control to precisely alter the shape of the pick-up pattern. The large-diameter, low-noise elements produce a frequency response of 40Hz to 20KHz with a selectable, recessed 80Hz, 12dB/octave high-pass filter that removes unwanted low-frequency energy when engaged. The filter control is conveniently located on the control box. The microphone head is made of commercial grade aluminum, the control box is made of hardened steel, both are powder coated and made in the USA. The microphone head is painted matte black for an unobtrusive yet stylish appearance.

### Specifications

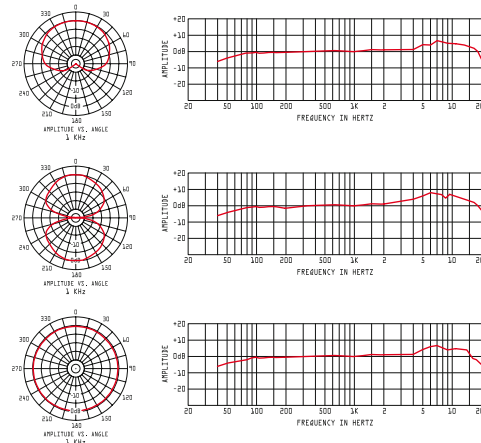
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	40Hz – 20KHz
Sensitivity	-29dBV (35 mV) @ 1 Pa
Impedance	135 ohms
Max SPL	110dB
Self Noise	22dBA
Power Requirements	P12, P24, P48, 4 mA

The remote polar-pattern control box can be mounted in a single rack unit shelf with optional accessories. Up to six control boxes can be mounted in one rack unit — Astatic RU1. The polar-pattern dial is positioned for easy adjustment “on the fly” and can be secured with a single “Flat Style” blank panel when rack mounted.

**Choose the 1600VP** when a suspended system is required. Featuring an exclusive anti-rotational mount, 30’ of cable, XLR-F wall plate and counter poise string.

**Choose the 1700VP** when a floor stand version is needed. Featuring a feather light 56” boom and exclusive Clutch Rotation System, this boom can be mounted on any standard microphone tripod or base stand.

**Choose the 1800VP** when a podium version is required. Featuring an 18” miniature gooseneck with TA3F and XLRM.







## 2600VP / 2700VP / 2800VP / 2220VP Continuously Variable Pattern Condenser Microphone System with Remote Polar Control through a Digital Signal Processor

The 2600VP / 2700VP / 2800VP / 2220VP is a continuously variable pattern condenser microphone system with remote polar control through a Digital Signal Processor. The variable polar pattern with remote control allows the user to precisely adjust the shape of the pick-up pattern for best performance from within a DSP. Utilizing a two-conductor shielded cable (max length 2,000 feet) between the microphone head and the DSP unit, the polar pattern of the microphone can be adjusted in real time without changing capsules, microphone positions, or inducing noise in the audio chain. Refer to the specific DSP instructions provided by CAD Audio for the units being used.

Special attention has been given to the frequency response and sensitivity of the microphone system while utilizing the variable pattern control to precisely alter the shape of the pick-up pattern. The VP systems are designed to resist interference from devices such as cell phones, two-way communication devices and lighting apparatus. Utilizing our RF Resistant Architecture, our VP products meet the stringent RF standards set by the European Union (see the specification section of each microphone for more information).

### Specifications

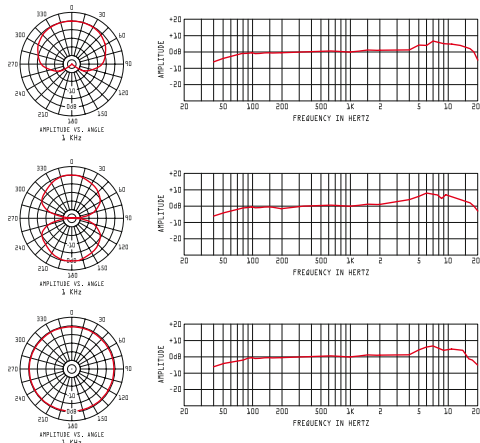
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	40Hz – 20KHz
Sensitivity	-29dBV (35 mV) @ 1 Pa
Impedance	135 ohms
Max SPL	110dB
Self Noise	22dBA
Power Requirements	P12, P24, P48, 4 mA

**Choose the 2600VP** when a suspended system is required. System includes a counter poise string, exclusive articulating steel hanger, anti-twist thread and rods, 30' of cable, and 24" XLR-F to Phoenix-type connector.

**Choose the 2700VP** when a floor stand version is needed. System includes the MB-1; a feather light 56" boom and exclusive Clutch Rotation System, this boom can be mounted on any standard microphone tripod or base stand. Also, includes 24" XLR-F to Phoenix-type connector.

**Choose the 2800VP** when a podium version is required. System includes the MB-18; an 18" miniature dual-flex gooseneck with TA3F-type and XLRM-type connectors. The system also includes 24" XLR-F to Phoenix-type connector.

**Choose the 2220VP / 2220VPW** when an installed boundary style microphone is needed. System includes 220VP boundary microphone with mounting hardware and rubber bushings. The system also includes 24" XLR-F to Phoenix-type connector. Specify "W" for white unit.



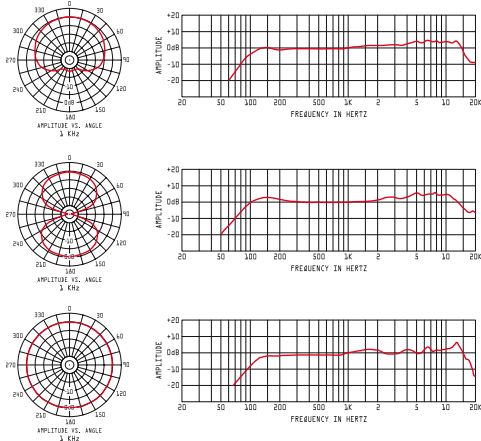


## 930VPL Continuously Variable Polar Pattern Condenser Desktop Boundary Microphone

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 930VPL has variable pick-up pattern selection it can shorten the list of products an audio system designer requires when boundary mics are specified. From omni-directional to cardioid, hypercardioid, figure-of-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. Selectable power-up on or power-up muted modes using dip switches. Features the RF Resistant Architecture, programmable CADtouch™ membrane with LED, contact closure in and out interface, and a bottom exit cable option.

### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	90Hz – 17KHz
Sensitivity	-32dBV (25 mV) @ 1 Pa
Impedance	120 ohms
Max SPL	120dB
Self Noise	29dBA
Power Requirements	P12, P24, P48, 4mA

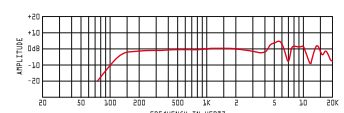
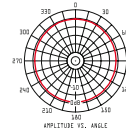
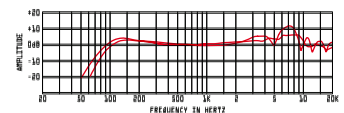
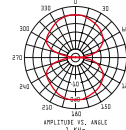
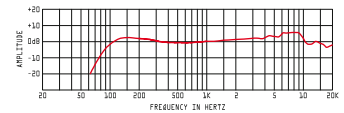
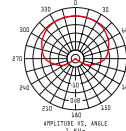


## 901VP Continuously Variable Polar Pattern Desktop Boundary Condenser Microphone

Continuously variable boundary mic for use on conference tables or stage floors. Featuring an all metal body and rugged rubber bottom make this a commercial grade boundary microphone. Improved RF immunity to greatly reduce susceptibility to radio interference from GSM based cell phones, PDA/cell phones and other similar devices. 30' cable, zippered pouch and mounting screws included — one boundary mic for any application.

### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	100Hz – 20KHz
Sensitivity	-33dBV (22.4 mV) @ 1 Pa
Impedance	150 ohms
Max SPL	120dB, 1% THD, 1KHz
Self Noise	22dBA
Power Requirements	P12, P24, P48, 4mA



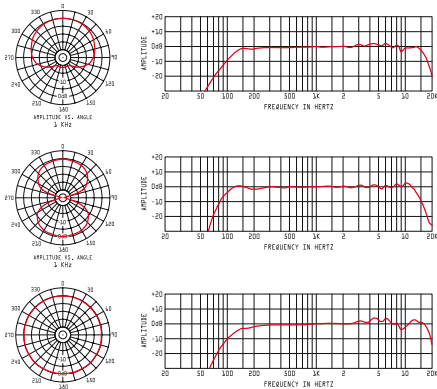


### 220VP Continuously Variable Polar Pattern Condenser Boundary Microphone

Button-style, condenser boundary microphone designed for surface installation. Resists interference from cell phones, two-way communication, and other RF devices. The integral 80Hz, 12dB/octave high-pass filter removes unwanted low-frequency energy to improve intelligibility. For remote polar control add the VPC-1 or a compatible DSP. Black or white (add "W" to the model number for white).

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	90Hz – 17KHz
Sensitivity	-32dBV (25 mV) @ 1 Pa
Impedance	125 ohms
Max SPL	120dB
Self Noise	24dBA
Power Requirements	P12, P24, P48, 4mA

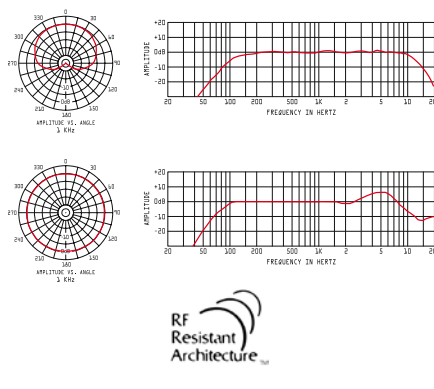


### 201R / 202RW RF Resistant Mini-Boundary Condenser Microphone

Miniature installation button style condenser boundary mics for use in teleconferencing or voice lift sound reinforcement. Other applications include surveillance, ambient recording or audio observation. Improved RF immunity to greatly reduce susceptibility to radio interference from cell phones, PDA or similar two-way communication devices. Available in omnidirectional in white (202RW) or cardioid in black (201R). Metal nut/washer hardware supplied.

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid, Omnidirectional
Frequency Response	90Hz – 17KHz
Sensitivity	-32dBV (25 mV) @ 1 Pa
Impedance	150 ohms
Max SPL	129dB
Self Noise	29dBA
Power Requirements	P12, P24, P48, 2.4mA



### 210 Omnidirectional Condenser Button Style Microphone with Adjustable Line-Level Output and Integrated Audio Limiter

Miniature-boundary microphone designed for installation in security, ambient monitoring and observation applications.

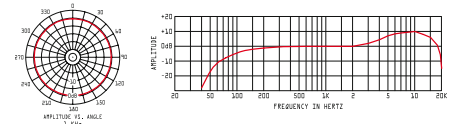
Astatic's internal audio limiter circuitry tames high sound pressure levels and improves intelligibility by protecting the audio signal from distorting sensitive recording circuitry. The integrated 180Hz, 6dB/oct high-pass filter attenuates unwanted low frequency energy.

9 to 24 VDC (70mA) is required to power the microphone (not supplied). The connector accepts DC power and outputs an unbalanced, amplified signal.

The threaded housing makes for easy installation into ceilings, walls, tables and other surfaces. Rubber isolation bushings and metal nut/washer hardware are also provided.

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Omnidirectional
Frequency Response	120Hz – 18KHz
Sensitivity	-30dBV (32mV) to +8dBV (2.5V) @ 1 Pa
Impedance	50 ohms
Max SPL	110dB
Self Noise	22dBA
Power Requirements	9 to 24 VDC, 70mA



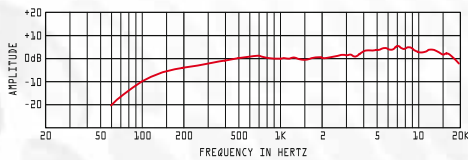
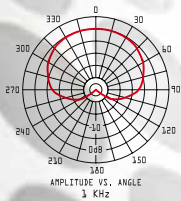


### 900 Cardioid Overhead Condenser Microphone

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. 30' of cable is permanently attached to the flex gooseneck for easy positioning and adjustments when suspended. Available in black or white (add "W" to the model number for white version).

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	150Hz – 20KHz
Sensitivity	-32dBV (25 mV) @ 1 Pa
Impedance	440 ohms
Max SPL	132dB
Self Noise	26dBA
Power Requirements	P12, P24, P48, 5mA

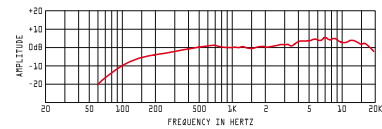
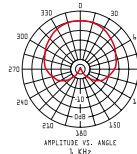


### 915B / 920B Cardioid Mini Condenser Gooseneck Microphone

Dual-flex point, quick-mount cardioid gooseneck condenser mics for speech and vocal pickup. May be used for lectern, courtrooms, conference rooms and house of worship applications. 15" (915B) and 20" (920B) lengths available.

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	150Hz – 20KHz
Sensitivity	-32dBV (25 mV) @ 1 Pa
Impedance	440 ohms
Max SPL	132dB
Self Noise	26dBA
Power Requirements	P12, P24, P48, 5mA

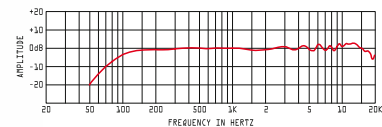
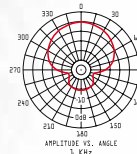


### 905R Line-Cardioid Mini Condenser Gooseneck Microphone

Quick-mount microphone is designed for speech and vocal pick-up. The line-cardioid polar pattern is engineered to attenuate unwanted sources outside of the +/- 45 degree acceptance angle while effectively utilizing the Supersensitive™ technology to "zero-in" on the desired voice. It's appropriate for boardrooms, courtrooms, house of worship. Windscreen and FM-2A XLR-F mount included.

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Line-Cardioid
Frequency Response	70Hz – 18KHz
Sensitivity	-15dBV (0.18 Vrms) @ 1 Pa
Impedance	150 ohms
Max SPL	111dB
Self Noise	18dBA
Power Requirements	P12, P24, P48, 2mA



**SuperSensitive**



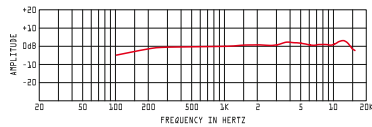
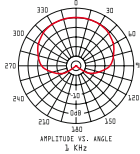


### 827A Cardioid Mini Condenser Gooseneck Microphone

Quick-mount cardioid gooseneck condenser mics for speech and vocal pickup. May be used for lectern, courtrooms, conference/meeting rooms, paging, telecommunications and intercom systems. Matte black finish and available in 17" (827A-13) and 22" (827A-17) total lengths.

#### Specifications

Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	100Hz – 16KHz
Sensitivity	-50dBV (3.2 mV) @ 1 Pa
Impedance	350 ohms
Max SPL	120dB
Self Noise	30dBA
Power Requirements	P12, P24, P48, 5mA

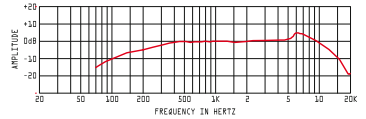
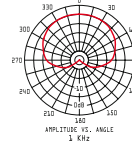


### 727-18 Cardioid Mini Dynamic Gooseneck Microphone

Special attention has been taken to ensure this microphone has high sensitivity while providing the durability and dependability associated with traditional dynamic microphones. The smooth frequency response with articulation emphasis makes this microphone suitable for speech applications on podiums, desks, audio and equipment consoles. Matte black finish with an overall length of 18".

#### Specifications

Operating Principal	Moving Coil Dynamic
Polar Pattern	Cardioid
Frequency Response	200Hz – 16KHz
Sensitivity	-56 (1.6 mV) @ 1 Pa
Impedance	600 ohms



### AMC105 Heavy-Duty Microphone with Push-to-Talk Switch

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, commercial facilities and dispatch. Dual zone available as the AMC105-2-19. 6' cable terminates with stripped and tinned ends.

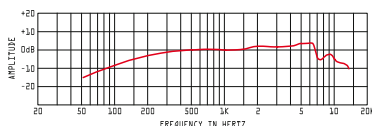
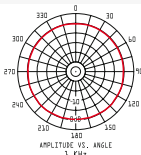
**AMC105SNO-19:** Single Zone 19" Heavy-Duty Gooseneck and Flange

**AMC105-2-19:** Dual Zone 19" Heavy-Duty Gooseneck and Flange



#### Specifications

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



### 119L / 119S Cardioid Dynamic Heavy-Duty Microphone

For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, commercial facilities and dispatch. Cardioid directional pick-up for maximum rejection of feedback or unwanted ambient noise. Switched version available with long lasting switch and external contact closure.

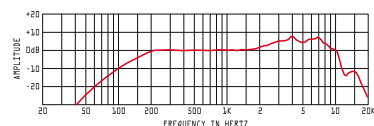
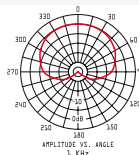
**119L-19:** No Switch 19" Heavy-Duty Gooseneck and Flange

**119S-19:** Single Switch 19" Heavy-Duty Gooseneck and Flange



#### Specifications

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





**611L / 631L**  
**Palm Held Dynamic Microphone**  
**with Push-to-Talk Switch**

The palm held microphone series is designed for 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. The palm held series have low-impedance output and is factory wired normally open. High-cycle DPDT switch mutes the microphone and produces an external contact closure. 6' heavy-duty coiled cord is stripped and tinned.

- 611L:** Omnidirectional Dynamic
- 631L:** Noise Cancelling Dynamic

**611L: Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Omnidirectional
Frequency Response	200Hz – 6500Hz
Sensitivity	-58dBV (1.6 mV) @ 1 Pa
Impedance	360 ohms

**631L: Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Noise Cancelling
Frequency Response	200Hz – 5500Hz
Sensitivity	-62dBV (.8 mV) @ 1 Pa
Impedance	180 ohms



**878HL-2**  
**Omnidirectional Desktop**  
**Dynamic with Push-to-Talk**  
**or Lift-to-Talk Microphone**

The 878HL-2 is designed for fixed or temporary paging applications. The frequency response is broad with a gentle rise in the high midrange for speech intelligibility. 6' cable provided with stripped and tinned ends.

**Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Omnidirectional
Frequency Response	80Hz – 12KHz
Hi-Z Sensitivity	-43dBV (7.2 mV) @ 1 Pa
Impedance	40K ohms
Lo-Z Impedance	400 ohms
Sensitivity	-60dBV (1 mV) @ 1 Pa

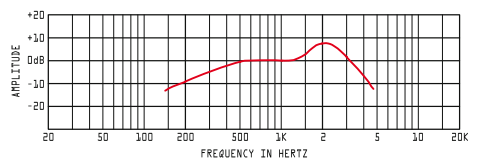
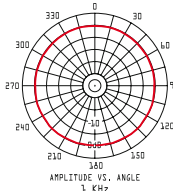


**WM-625 / WM625S / WM1000**  
**Omnidirectional Wall Mount Dynamic Microphone**

For intercom and P.A., the WM625 and WM625S are designed especially for mounting to wall outlet boxes. The WM625S has a simple push-to-operate DPDT snap-action switch. The WM1000 resists extremes in temperature and humidity found in outdoor environments. High impedance output with ¼" connector.

**Specifications**

Operating Principal	Moving Coil Dynamic
Polar Pattern	Omnidirectional
Frequency Response	300Hz – 4KHz
Sensitivity	-42dBV (7.9 mV) @ 1 Pa / -38dBV
Impedance	500 ohms / 2500 ohms



## GOOSENECK ACCESSORIES

### GSM-1

Lectern/Podium shock mount for mini-gooseneck mic. Switchcraft™ XLRF 3-pin insert with 6' stripped and tinned cable.



### 40-116 Shock Mounted Push-to-talk Base

no phantom power required.



### 40-117 Shock Mounted Push-to-talk Base

Active LED, phantom power required.

### 40-118 Shock Mounted Latching Push-to-talk Base

Selectable momentary or latching, phantom power required.

### 40-119 Shock Mounted no mute Base

3-pin XLR in and 5-pin XLR output for dry contact closure, no phantom power required.



### FM-2A

XLR-F Connector on 1 3/4" diameter mounting flange with locking ring.



### FM-1A

Flange mount and XLR adapter kit for mini gooseneck mic.



## WALL PLATES

### 40-347

Wall Plate with single female 3-pin panel XLR type connector. Single duplex style stainless steel wall plate with mounting screws.



### 40-348

Same as the 40-347 with dual female 3-pin panel XLR type connectors.



## MIC CABLES



### 40-354

30' Cable terminated with 3-pin XLRM and TA3F.



### 40-360

24' Cable terminated with 3-pin XLRF and Phoenix-type plug.

### 40-355

30' Cable terminated with 3-pin XLRM and TA4F.

## CONTROL BOXES AND RACK SHELF



### VPC-1

Remote Variable Pattern Control Box for microphones with Variable Pattern Control. VPC-1 is rack mountable with the RU-1 up to 6 units per shelf.



### RU-1

19" Rack Mount Shelf for the VPC-1 control box. Up to six VPC-1 units can be mounted in the RU-1. Mounting hardware included.

## STANDS / BOOMS



### MB-1

56" Miniature Choir Boom with TA3F and TA3M for use with the 1600VP microphone system.



### MB-18

18" Miniature Gooseneck with TA3F and XLRM for use with the 1600VP microphone system.



### TBS-2

Floor Stand 33" to 66" adjustable matte black post and 10" matte black base, 8.5 lbs.



### 40-107

Desk Stand with a 9" to 13" matte black post and 6" matte black base, 3 lbs.



### 40-105

Desk Stand with a 4" matte black stem and 6" matte black base, 2.5 lbs.

## SHOCK MOUNTS



### DMC1

Rim mounted drum mic clip.



### MZM-5

Elastic Suspension Shock Mount for M179.



### GZM-6

Elastic Suspension Shock Mount for the GXL3000 and GXL2200.



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