

Expression thru Innovation

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About Us

AD Audio originally took shape as the Astatic Corporation in 1931, founded by C.M. Chorpening and F.H. Woodworth, two ham radio operators who needed a static-free microphone for their transmitters. They worked with local engineers to develop the company's first crystal radio microphone, the model D-104.

Having overcome the problem of static—hence the company name "Astatic"—and improved the quality of radio transmitter microphones in general, Chorpening and Woodworth went on to incorporate in 1933 and develop a line of innovative crystal mics, phonograph pickups and recording heads. Astatic also made significant contributions to the allied effort in World War II with an underwater sound detection hydrophone and static-discharger for Army and Navy aircraft. Now known as Astatic Commercial Audio Products, the company has evolved into a successful manufacturer of commercial microphones for a wide variety of industrial applications. Astatic microphones can be found in restaurants, airports, churches, schools, and corporate boardrooms worldwide. Their ongoing success is based on Variable Pattern Technology available in hanging, gooseneck and boundary microphones. The pick-up patterns can be controlled on the microphone, by using the remote pattern control box or through some of the industries' most popular digital signal processors.

CAD (Conneaut Audio Devices) Professional Microphones was initially formed in 1988 as the Pro Audio division of the company to design and manufacture microphones for the recording and live sound markets, segments not served by Astatic. Initially, CAD introduced a revolutionary servo circuit console and breakthrough processing products, then went on to develop a series of innovative and costeffective high performance studio microphones. These included the highly acclaimed E100, E200 and E300 Equitek[™] Series mics that literally defined the project studio revolution of the late 1980s and early 1990s.

More recent developments include CAD's first line of D Series Guitar Microphones, the D80 Dynamic, D82 Ribbon, and D84 Condenser. New additions to the StagePass[™] Wireless series with the 1600 handheld and 1610 body pack, UHF, 100 Channel Wireless systems, CAD's wireless offering continues to grow.

Maybe the most exciting new addition to the Equitek[™] Professional series is the E19 theatre style ear worn microphone. Included in every StagePass[™] 1610 system, the E19 gives you the sound and reliability not available currently on the market.

We have been busy on the Astatic[™] Commercial side as well. With the introduction of the WX100 Commercial Grade Wireless system, CAD Audio now offers a commercialgrade wireless with multiple form factors and one of the industry's most reliable radios to meet your requirements in any installation.

For the home recording enthusiast CAD is introducing two new stand mounted acoustic enclosures. The AS16 Stand Mounted Cabinet enclosure and the AS22 foldable stand mounted acoustic enclosure. With the current AS32 Acoustic enclosure we now have several styles and sizes to fit all your home studio needs.

ACCESSORIES

ACOUSTIC ENCLOSURE

A516

ACOUSTI-SHIELD 16 Stand Mounted Acoustic Enclosure

The Acousti-shield AS16 was developed as an effective accessory for the home recording and live sound professional. When effectively utilized, it can substantially reduce unwanted reflections, echo flutter and unwanted environmental acoustic interference. The Acousti-shield AS16 is constructed from high quality perforated metal shield and high density micro cell acoustic foam. The Acousti-shield AS16 is supplied with mounting hardware that allows for flexible use of most popular instrument microphones. The Acousti-shield AS16 is an essential tool for enhanced performance and a vital accessory for the professional musician.

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
- Microphone not included.





ACOUSTI-SHIELD 22

Foldable Stand Mounted Acoustic Enclosure

The Acousti-shield AS22 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. The Acousti-shield AS22 is constructed from high quality stainless steel and high density micro cell acoustic foam. The Acousti-shield AS22 is supplied with mounting hardware that adapts to most microphones for easy, flexible placement. The Acousti-shield AS22 is an essential tool for enhanced performance and a vital accessory for the professional musician.

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.



ACCESSORIES

ACOUSTIC ENCLOSURE



ACOUSTI-SHIELD 32

Stand Mounted Acoustic Enclosure

The Acousti-shield 32 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 AS32 is constructed from high quality stainless steel and high density micro cell acoustic foam. The AS32 is supplied with mounting hardware to adapt to most microphones for easy, flexible placement. The AS32 is an essential tool for enhanced performance and a vital accessory for the professional musician.



Features

- The Acousti-shield 32 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 AS32 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.
- Innovative microphone positioning flexibility accommodates a variety of microphone designs and allows for creative control and a tailored acoustic result.
- The portable design allows for easy studio placement and simplifies remote recording.



CAD LIVE

D SERIES CABINET MICROPHONES



CAD Live is designed to outperform your expectations and deliver exceptional performance. Engineered to compliment the new generation of exceptional sound systems—The CAD Live series of products taps into our Equitek studio heritage along with our live sound knowhow, in creating an impactful and easy to use line of mics.

The CAD Live: D80, D82, D84 represent durable, easy to place designs each possessing unique sound profiles. Used individually or in tandem the CAD Live 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 that delivers a reminiscent, yet updated sound profile you would look for in a dynamic microphone. The D80 has 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 in a ribbon microphone. Its exceptional frequency response along with an impressive max SPL, make it perfect for delivering your custom tone.

The D84 is a Large Diaphragm Condenser that gives you true studio reproduction in an easy to place design, resulting in a rich, transparent, true to life sound. The D84 has internal shock mounting adding to its ease of placement—No need for a big, hard to position shock mount.





Specifications

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D80: Moving Coil	ynamic Super Cardioid	
Frequency Response	50Hz – 18KHz	
Sensitivity	-48dBV (4.0mV) @1Pa	
D82: Moving Ribbon Dynamic Figure-of-Eight		
Ribbon Warmth with Exte	ded 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-	e Reproduction	
Frequency Response	20Hz-18kHz	
Sensitivity	-30dBV (30mV) @1Pa	
Phantom Power	P48, 4mA	

STAGEPASS

STAGEPASSTM

UHF Handheld Wireless 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.







Specifications

RX1600 Receiver Frequency Range Audio Frequency Response Dynamic Range TX1600 Handheld Transmitter Dynamic Cardioid Capsule Frequency Response Transmit power AA Batteries with

542.1MHz - 564.4MHz 40Hz - 15KHz >105dB

> 40Hz – 15KHz 10mW >15hrs battery life

STAGEPASSTM

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.

WX1610 Box

 Includes E19 Equitek miniature earworn mic, WXLAV lav mic & WXGTR guitar cable.



VX1610

Specifications	
RX1600 Receiver	
Frequency Range	542.1MHz – 564.4MHz
Audio Frequency Response	40Hz – 15KHz
Dynamic Range	>105dB
TX1610 Bodypack Transmitter	
Frequency Response	40Hz – 15KHz
Transmit power	10mW
AA Batteries with	>15hrs battery life
Accommodates	TA4F type connector
Optimized for instrument	via pin 3
Optimized for microphone	via pin 4



WIRELESS

STAGEPASS

STAGEPASS[™]

1200 Series

Wireless VHF Handheld System

Frequency agile diversity reception for outstanding connectivity. Scan-Link[™] instantly and automatically sets receiver and transmitter frequency. Rugged and reliable design stands up on the road.

Features

- VHF Channelization for increased operating range
- Diversity Operation to minimize multipath interference
- 16 Channel Agility for frequency plan flexibility
- ScanLink[™] technology for instantaneous and automatic channel configuration
 - First, the receiver conducts an environmental frequency evaluation then selects a channel
 - Second, the receiver links to the transmitter and sets the transmit frequency automatically
- Double AA batteries with >10 hrs of battery life
- Transmitters have soft touch on and mute switches with multi-color LED indicators
- Metal chassis for a durable and formidable shielded enclosure
- 1/4" and XLR outputs for maximum flexibility

Specifications RX1200 Receiver VHF 175 - 85MHz Frequency Range 40Hz – 15KHz Frequency Response Dynamic Range 100dB TX1200 Handheld **Operating Principal** Dynamic Cardioid Capsule Frequency Response 40Hz - 15KHz Transmit Power 10mW **Power Requirements** "AA" size alkaline or rechargeable batteries Battery Life >10 hours (alkaline)



STAGEPASS[™]

1210 Series

Wireless VHF Bodypack System

Frequency agile diversity reception for outstanding connectivity. Scan-Link[™] instantly and automatically sets receiver and transmitter frequency. Rugged and reliable design stands up on the road.

Features

- VHF Channelization for increased operating range
- Diversity Operation to minimize multipath interference
- 16 Channel Agility for frequency plan flexibility
- ScanLink[™] technology for instantaneous and automatic channel configuration
 - First, the receiver conducts an environmental frequency evaluation then selects a channel
 - Second, the receiver links to the transmitter and sets the transmit frequency automatically
- Double AA batteries with >10 hrs of battery life
- Transmitters have soft touch on and mute switches with multi-color LED indicators
- Metal chassis for a durable and formidable shielded enclosure
- 1/4" and XLR outputs for maximum flexibility

Specifications	
RX1200 Receiver	
Frequency Range	VHF 175 – 85MHz
Frequency Response	40Hz – 15KHz
Dynamic Range	100dB
TX1210 Bodypack Transmitter	
Frequency Response	40Hz – 15KHz
Transmit power	10mW
AA Batteries with	>15hrs battery life
Accommodates	TA4F type connector
Optimized for instrument	via pin 3
Optimized for microphone	via pin 4

Includes RX1200 receiver, TX1210 body pack transmitter, WXLAV lavalier microphone, WXHW head worn microphone, and WXGTR guitar cable.



GXL



GXLV WIRELESS

Wireless Microphone System

The GXLV VHF receiver features two channels of VHF wireless conveniently engineered into one chassis. It includes XLR and ¼" 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	
RXGXLV Receiver	
Frequency Band	VHF
Frequency Response	50Hz – 18KHz
Dynamic Range	>100dB
Sensitivity	-105dB
Output Connectors	(2) XLR Balanced, 1 TRS 1/4"
TXGXLBV Body Pack Transmitter	
Transmit Power	10mW
Power Requirements	9V battery
Battery Life	>10 hours (alkaline)
Connector	Accepts TA4F-type
TXGXLHV Handheld Transmitter	
Operating Principal	Dynamic Unidirectional Capsule
Sensitivity	-26dBV (50mv) @ 1Pa
Transmit Power	10mW
Power Requirements	9V battery
Battery Life	>10 hours (alkaline)





GXLVHH

GXLV Wireless Series also available as:

- **GXLVHH** VHF Dual Handheld wireless system
- **GXLVHB** VHF Combo wireless system (includes WXHW, WXLAV)
- **GXLVBB** VHF Dual Bodypack wireless system (includes [2] WXHW, [2] WXGTR)







GXL





GXLU WIRELESS Wireless Microphone System

The GXLU UHF receiver 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	
RXGXLU Receiver	
Frequency Band	UHF
Frequency Response	50Hz – 18KHz
Dynamic Range	>105dB
Sensitivity	-105dB (12dB SINAD)
Output Connectors	(2) XLR Balanced, 1 TRS 1/4"
TXGXLUB Body Pack Trai	nsmitter
Transmit Power	10mW
Power Requirements	"AA" size alkaline or rechargeable batteries
Battery Life	>10 hours (alkaline)
Connector	Accepts TA4F-type
TXGXLUH Handheld Tran	smitter
Operating Principal	Dynamic Unidirectional Capsule
Sensitivity	-33dBV (22mv) @ 1Pa
Transmit Power	10mW
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 (includes WXHW, WXLAV)



GXLUBB ss system

UHF Dual Bodypack wireless system (includes [2] WXHW, [2] WXLAV)



COMMERCIAL GRADE WIRELESS



WX100 Installation Grade Wireless **Microphone System**

The new WX100 UHF Wireless Series from CAD Audio provides the A/V installer with straight-forward and intuitive form factors, ultra-reliable high performance wireless connectivity and superior audio bandwidth. The WX100 was designed using the latest wireless technologies and industry-leading diversity performance to ensure the highest standards in connectivity in the most congested RF environments. In addition to superior connectivity, the WX100 features a familiar and intuitive control scheme that allows easy, problem-free operation by casual non-professional users. The WX100 transmitters' uncomplicated form factors make it easy to identify various features, operate on/off switches, change and recharge batteries. These designs along with an array of useful accessories make the WX100 a perfect solution for A/V suites, flexible meeting spaces or any situation that requires easy-to-use, highly reliable wireless.

Specifications	
Maximum Output Level	
Balanced Output	-10bBV
Unbalanced Output	+10dBV
Output Impedance	
Balanced Output	200 ohms
Unbalanced Output	100 ohms
RF Bandwidth	38.4MHz
Switchable Frequencies	16
RF Sensitivity	-95dBm >75dB S/N
Image Rejection	>85dB
Squelch	Noise Squelch and Tone Squelch
Multipath Mitigation	True Spatial Diversity



Desk Stand

The WX160 is a desk stand transmitter designed for use in pro audio A/V applications. The WX160 accommodates various length goosenecks and is optimized for use with the CAD 915B and CAD 920B. Designed with intuitive and flexible programmability the WX160 fulfills requirements for easy operation and custom applications. The WX160 has two user defined mute options. Power up "on" or Power up "off" with easy-to-use latching or momentary switches. The WX160 is designed to accommodate alkaline or rechargeable batteries.

Specifications	
Operating Principle (915B/920B)	Condenser
Polar Pattern (915B/920B)	Cardioid
Frequency Response	150Hz — 15KHz
Maximum SPL	118dB
RF Transmitter Output	50 mW maximum
Modulation	FM, +/- 40KHz peak
Power Requirements	2 "AA" size alkaline or rechargeable batteries
Battery Life	>10 hours (alkaline)



WX155 Body Pack

The WX155 is a body-pack transmitter designed for use in pro audio A/V applications. The WX155 features an uncomplicated on/off switch with Smart Audio Technology ensuring silent on/off operation. The WX155 is designed to accommodate alkaline or rechargeable batteries.

Specifications	
Frequency Response	25Hz – 15KHz
Maximum input level	Microphone input: -6dBV
	Instrument input: +6dBV
RF Transmitter Output	50 mW maximum
Modulation	FM, +/- 40KHz peak
Power Requirements	2 "AA" size alkaline or rechargeable batteries
Battery Life	>10 hours (alkaline)
Connector	Accepts TA4F-type

COMMERCIAL GRADE WIRELESS

WX150 Handheld

The WX150 is a cardioid dynamic handheld microphone designed for use in pro audio A/V applications. The WX150 features an uncomplicated on/off switch with Smart Audio Technology ensuring silent on/off operation. The WX150 is designed to accommodate alkaline or rechargeable batteries.

Specifications

Moving coil dynamic
Cardioid
80Hz – 15KHz
146dB (sensitivity level "1")
115dBA
50 mW maximum
FM, +/- 40KHz peak
2 "AA" size alkaline or rechargeable batteries
>10 hours (alkaline)





DA100 Distribution Amplifier

The DA100 is an antenna distribution amplifier for the CAD Audio WX100 wireless receiver. The DA100 is designed for use in pro audio applications such as audio-video integration and musical/theatrical performance. The DA100 features a net 0dB amplification eliminating split-attenuation when used in conjunction with the WX100 receiver. Minimal amplification is applied to reduce the risk of unwanted intermodulation interference. The onboard power distribution system conveniently distributes 12V power for up to four of the WX100 receivers. The power switch on the DA100 also controls the



RF CONNECTIONS



DC POWER DISTRIBUTION

WX100 receiver power when connected to the power distribution hub. All antenna connectors are BNC-type for easy plug and play compatibility. Antennas are not supplied with the DA100. Whip antennas supplied with the WX100 may be used and can be front mounted utilizing the ANT105 mounting kit. Additional high-performance antenna options are available from CAD Audio. The DA100 comes complete with RF patch cables for four receivers, rack ears and the appropriate power cables for patching and connecting an AC power source.

Specifications	
Frequency Range	UHF 600 – 900MHz
Impedance	50Ω
Gain	0dB +/- 3dB
AC Power	100–240V, 60Hz
DC Output	DC 12–15V, 3.6A

ACCESSORIES



302 Headworn

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



WXGTR

WXHW

Heavy duty instrument cable for guitar or bass wire-

less system. ¼" male end to CAD TA4F connector.

Compatible with all CAD Audio wireless systems.

Wireless Headworn Hyper-Cardioid condenser microphone with CAD TA4F connector. Compatible with all CAD Audio wireless systems.

Equitek

E19 Equitek Broadcast and Production

Miniature earworn wireless mircophone

ANT100Whip 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, 520Mhz-860Mhz, 500hm impedance, 7dBi of gain.



BPC1 Drop-in Battery Charger

Designed for easy charging of AA NiMH batteries without being removed from the WX155 transmitter. The BPC1 features overcharge protection and charge status lights. The units can be linked together utilizing the chassis keys on each side of the unit. The power can be daisy chained utilizing the DC In / DC Out plugs on the back of each unit. Maximum of four units can be tied together with one power supply. The charger draws power from a standard A/C power outlet, power adapter provided.



HCC1 Plug-in Charger

Designed for easy charging of AA NiMH batteries without being removed from the WX150 and WX155 transmitters. The HHC1 features overcharge protection and indicator lights for when the transmitter is fully charged. The charger draws power from a standard A/C power outlet, power adapter provided.



ANT105

Front mount antenna relocation kit. BNC to BNC designed for use with DA100.



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 with CAD TA4F connector. Compatible with all CAD Audio wireless systems.

RECORDING

CAD Audio is proud to celebrate over 80 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. -10dB 0dB

PAD

HI-PASS

E100S

EQUITEK

RECORDING





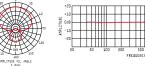


E100S Supercardioid Condenser Microphone

Engineered and built in the USA to the highest quality standard, the new Equitek E100S large-diaphragm supercardioid condenser mic has the lowest noise floor in its class (3.7dBA) and 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. A twin 5087 output driver provides low drive impedance. 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







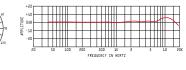


E300S Multi-Pattern Condenser Microphone

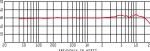
Transparent, airy upper and mids, coupled with a rich, silky smooth low end and an enormous upfront presence make the E300S our finest vocal mic. The E300S offers unparalleled performance from critical studio tracking scenarios to live sound reinforcement. The 1.1" 24K gold sputtered externally biased triple pattern (cardioid, omni, figure-of-eight) dual diaphragm condenser capsule is hand dampened for consistent frequency response. A regulated bypass voltage generator for precise output sensitivity, sophisticated laser trimmed op-amp circuitry for increased management of fast transients and open capsule architecture design make the E300S a classic vocal studio microphone. Features include an on/off switch with auto power shut-off feature, hi-pass filter 6dB pad/octave @ 135Hz and a 20dB pad. Rechargeable 9V nickel hydride batteries provide huge current reserve and allow for remote operation for up to six hours. 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

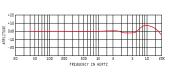












EQUITEK

EQUITEK

RECORDING





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 twoposition attenuator. Elastic shock mount, stand clamp and windscreen are included. P48 (48V) phantom power is required.

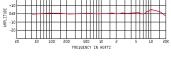
Specifications

Operating Principal	
Polar Pattern	
Frequency Response	
Sensitivity	
Impedance	
Max SPL	
Self Noise	
Hi-Pass	
Attenuator	
Power Requirements	

Externally-Biased Condenser Cardioid, Omnidirectional 20Hz – 20KHz -39dBV (11 mV) @ 1 Pa 85 ohms 145dB (pad engaged) 23dBA 75Hz & 150Hz, 6dB/oct 10dB & 20dB P48, 2 mA

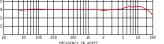














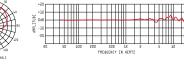
E60 Cardioid Condenser Microphone

Externally-biased point-source transduction with high-power transformerless drive in a bulletproof road-ready housing. Take it on tour for high-impact instrumentation. 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

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







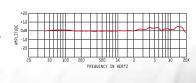
TRION 8000 Multi-Pattern Condenser Tube Microphone

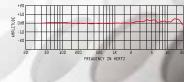
The Trion 8000 is a multi-pattern, externally biased, large dual diaphragm studio tube condenser microphone. Incorporating a sophisticated, precision-machined, hand-assembled capsule, the low mass 1.12" gold vapor deposited, hand dampened diaphragms offer the warm, rich and open classic tube sound ideal for studio vocal recordings in the digital realm. Exceptional sensitivity, low distortion and an extended frequency response make the 8000 an outstanding performer. Discrete Class A electronics provide transparent, accurate sound reproduction and warm tube performance. A 3-position polar pattern switch provides selection of omnidirectional, cardioid or figure-of-eight for versatility and flexibility demanded by recording professionals. The rugged metal housing and construction provide the durability required to withstand the harsh day-to-day demands of both live and studio environments. Featuring a heritage design, the Trion 8000 offers an aesthetically pleasing industrial profile. Shockmount, heavy-duty aluminum carrying case, 25ft 6-pin connector cable, and power supply included. 115/230 VAC power required.

Specifications	
Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid, Figure-of-Eight, Omnidirectional
Frequency Response	20Hz – 20KHz
Sensitivity	-37dBV (14 mV) @ 1 Pa
Impedance	250 ohms
Max SPL	143dB
Self Noise	21dBA
Power Requirements	PS120 Power Supply Included

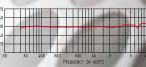








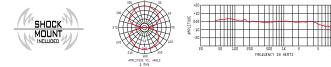




TRION 7000 Dual-Element Ribbon Microphone

The Trion 7000 is a dynamic, dual-element, ribbon microphone. The sophisticated, precision-machined, hand-assembled aluminum ribbon capsule offers a warm, rich classic sound. The 7000 is an excellent choice for recording vocals, brass, woodwinds, cello and acoustic bass as well as guitar and bass amps. It can be used in both live and studio applications wherever a warm, full-bodied tone is desired. The polar pattern is naturally a figure-of-eight. The pronounced proximity effect associated with the Trion 7000 produces a "fattening effect" at close distances. All these features make the 7000 an excellent choice for a wide variety of live and recording applications. Shock mount, heavy-duty aluminum carrying case included.

Specifications	
Operating Principal	Moving Ribbon Dynamic
Polar Pattern	Figure-of-Eight
Frequency Response	25Hz — 9KHz
Sensitivity	-53dBV (2.2 mV) @ 1 Pa
Impedance	940 ohms







M SERIES

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. Simply "dial in" your desired pattern for the greatest flexibility in live and recording situations. A unique combination of vintage design and modern electronics, 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. The M179's advanced head amp design and efficient power circuitry ensure superior reproduction in critical miking situations with an open, natural sound, fast transient response, low distortion, low noise, and a high output level. Features include a variable pattern control, 100 Hz hi-pass filter and 200B pad. Swivel mount, shock mount and carrying case included.

Specifications	
Operating Principal	Externally-Biased Condenser
Polar Pattern	Continuously Variable
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



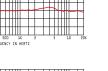


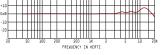












GXL

BLACK PEARL

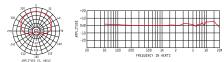


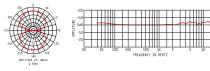
GXL3000BP Black Pearl Chrome Finish Multi-Pattern Condenser Microphone

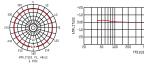
Features a 1" gold-vapor deposited capsule and multiply patterns, Cardioid, figure-of-eight and omni directional.

Specifications

Operating Prine	cipal	Externally-Biased Condenser
Polar Pattern	Cardioi	d, Figure-of-Eight, Omnidirectional
Frequency Res	ponse	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 Require	ments	P48, 3.5 mA





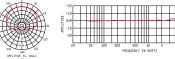




GXL2200BP Black Pearl Chrome Finish Cardioid Condenser Microphone

Offering exceptional value, the GXL2200BP is a large diaphragm condenser microphone finished in lustrous black pearl chrome. The GXL2200BP's capsule features a sophisticated 1" gold-vapor deposited diaphragm. Exceptional sensitivity and low distortion make it an outstanding performer in a variety of live and recording applications. Shock mount, vinyl pouch and polishing cloth 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

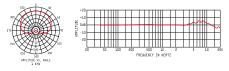




GXL1200BP Black Pearl Chrome Finish Cardioid Condenser Microphone

Finished in lustrous black pearl chrome, the compact and durable GXL1200BP condenser is known for its open, transparent sound. Its transformerless design reduces distortion and optimizes low-end response. A uniform cardioid pattern controls feedback. The GXL1200BP's small size, accuracy, and high SPL capability, make it ideal for miking overheads, high hats, cymbals, and stringed instruments. Mic clip, vinyl pouch and polishing cloth 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



BLACK PEARL

GXL



GXL2200BPSP

Studio Pack Black Pearl Chrome Finish

Includes one GXL2200BP large diaphragm cardioid condenser microphone, one GXL1200BP cardioid condenser microphone, one MH110 studio headphones, and one EPF15A pop filter. Shock mount and mic clip included.





GXL3000BPSP

Studio Pack Black Pearl Chrome Finish

Includes one GXL3000BP large diaphragm cardioid condenser microphone, one GXL1200BP cardioid condenser microphone, one MH110 studio headphones, and one EPF15A pop filter. Shock mount and mic clip included.







GXL

RECORDING



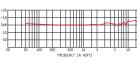
GXL3000 Multi-Pattern Condenser Microphone

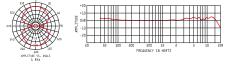
The GXL3000's capsule features a large multipattern (cardioid, omni, figure-of-eight) dual diaphragm design. Features include a 100 Hz hipass filter and 10 dB pad. Shock mount and vinyl pouch included.

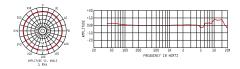
Specifications

Operating Principal	Externally-Biased Condenser
Polar Pattern Cardio	id, Figure-of-Eight, Omnidirectional
Frequency Response	35Hz — 20KHz
Sensitivity	-38dBV (13 mV) @ 1 Pa
Impedance	200 ohms
Max SPL	135dB (pad engaged)
Self Noise	20dBA
Hi-Pass	100Hz, 6dB/oct
Attenuator	10dB
Power Requirements	P48, 3.5 mA







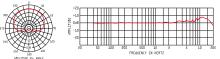




GXL2200 Cardioid Condenser Microphone

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	30Hz – 20KHz
Sensitivity	-36dBV (16 mV) @ 1 Pa
Impedance	75 ohms
Max SPL	130dB
Self Noise	20dBA
Hi-Pass	100Hz, 6dB/oct
Power Requirements	P48, 3 mA



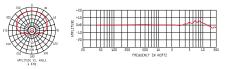


GXL1200 Cardioid Condenser Microphone

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

Specifications

opeenreations	
Operating Principal	Externally-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	30Hz – 20KHz
Sensitivity	-36dBV (16 mV) @ 1 Pa
Impedance	100 ohms
Max SPL	135dB
Self Noise	17dBA
Power Requirements	P48, 4 mA



RECORDING

GXL



GXL2200SP Studio Pack

Contains one GXL2200 large diaphragm condenser, one GXL1200 cardioid condenser and one EPF15A pop filter. Shock mount and mic clip included.



GXL2200SSP Stereo Studio Pack

Contains one GXL2200 large diaphragm condenser, two GXL1200 cardioid condensers and one EPF15A pop filter. Shock mount and mic clips included.



GXL3000SP Studio Pack

Contains one GXL3000 large diaphragm multi-pattern condenser, one GXL1200 cardioid condenser and one EPF15A pop filter. Shock mount and mic clip included.



GXL3000SSP Stereo Studio Pack

Contains one GXL 3000 large diaphragm multi-pattern condenser, two GXL1200 cardioid condensers and one EPF15A pop filter. Shock mount and mic clips included.



LIVE PERFORMANCE

The Live Performance Series has a microphone solution for every stage, arena and theatre. From industry leading percussion and instrument mics to premium vocal mics, our live series will give you the sound you want at a price you can afford.

PERCUSSION

LIVE PERFORMANCE



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.

PERCUSSION

LIVE PERFORMANCE





Includes two D29 dynamic tom mics, one D19 dynamic

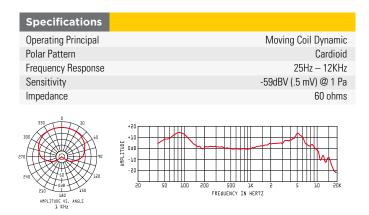
snare mic, both with integrated drum clips, and one D10 dynamic kick drum mic with clip. Protective carrying case included.

SI

D12

Cardioid Neodymium Dynamic Microphone

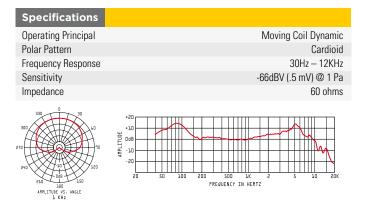
The D12 is a cardioid neodymium dynamic microphone specifically designed for bass drum and other low frequency sources. The D12's wide dynamic range and fast transient response produces an open, detailed sound with extra punch when miking kick drums, large percussive instruments and bass guitar amplifiers. All metal housing with integrated mic clip. Available in Stage Series Drum Packs or separately.





KBM412 Cardioid Neodymium Dynamic Microphone

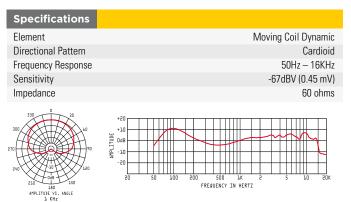
The KBM412 is specifically designed for low frequency sources producing extra punch when miking kick drums. Isolation mic clip included.



D10

Cardioid Dynamic Microphone

Dialed in at the factory for the thump and crack of your kick drum. All metal housing with integrated mic clip. Available in Stage Series Drum Packs.





PERCUSSION

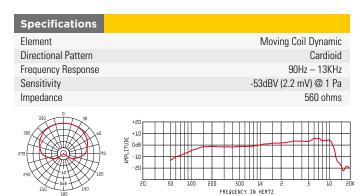
LIVE PERFORMANCE

PERCUSSION

LIVE PERFORMANCE

D29 Cardioid Dynamic Microphone

Designed for toms. Integrated drum mount clip for easy setup and adjustment. Sold only in Stage Series Drum Packs.

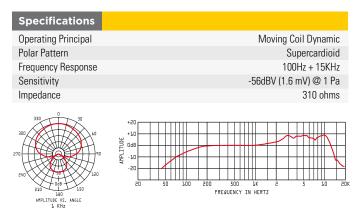




TSM411

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.





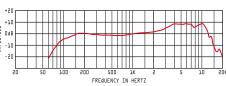
D19

Supercardioid Dynamic Microphone

Designed for snare drums. Integrated drum mount clip for easy setup and adjustment. Sold only in Stage Series Drum Packs.

Specifications	
Element	Moving Coil Dynamic
Directional Pattern	Supercardioid
Frequency Response	90Hz – 14KHz
Sensitivity	-56dBV (1.6 mV) @ 1 Pa
Impedance	300 ohms
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PERCUSSION

LIVE PERFORMANCE



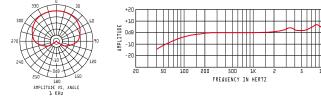


ICM417

Cardioid Condenser Microphone

Ideal for miking cymbals, overheads and stringed instruments, the ICM417 electret condenser produces a natural, transparent sound with exceptional accuracy and detail. The cardioid pattern and tranformerless design produces a balanced frequency response across the spectrum with minimal distortion.

Specifications	
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Cardioid
Frequency Response	80Hz — 20KHz
Sensitivity	-28dBV (40 mV) @ 1 Pa
Impedance	480 ohms
Max SPL	120dB
Self Noise	26dBA
Power Requirements	P12, P24, P48, 5mA

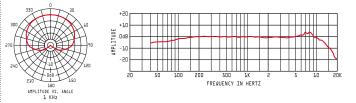


C9

Cardioid Condenser Microphone

Designed for drum overheads, high hat, ride cymbal and stringed instruments, the C9 cardiod condenser microphone captures the subtle nuance of acoustic instruments and the presence and attack of cymbals. Available in Stage Series Drum Packs or separately (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



HANDHELD

LIVE PERFORMANCE

C195

Cardioid Handheld Condenser Microphone

The C195 is a low noise Electret condenser equipped with a Flex-Form hardened steel grille and CAD's I.N.R-3[™] Impact Noise Reduction system is 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, 5 mA



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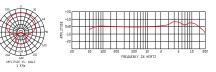
CAD DIBS

D189

Supercardioid Handheld Neodymium Dynamic Microphone

This rugged dynamic microphone delivers exceptional sound quality for a variety of live sound applications. With a Flex-Form[™] hardened steel grille and CAD's(I.N.R.-2[™]) Impact Noise Reduction system this microphone provides a durable, great sounding microphone for several different applications.

Specifications	
Operating Principal	Moving Coil Dynamic
Polar Pattern	Supercardioid
Frequency Response	40Hz — 18KHz
Sensitivity	-54dBV (2 mV) @ 1 Pa
Impedance	200 ohms

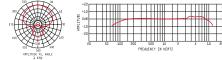




CAD25A Supercardioid Handheld Dynamic Microphone

- Flex-Form hardened steel grille
- On/Off Switch
- 15' XLR to XLR cable included

Operating Principal	Moving Coil Dynamic
Polar Pattern	Supercardioid
Frequency Response	80Hz – 13KHz
Sensitivity	-53dBV (2.3 mV) @ 1 Pa
Impedance	500 ohms





Operating Principal

Frequency Response

Polar Pattern

Sensitivity

Impedance

Microphone Flex-Form hardened steel grille

Dynamic

CAD22A

Supercardioid Handheld

- On/Off Switch
- 15' XLR to XLR cable included

Moving Coil Dynamic

-54dBV (2 mV) @ 1 Pa

Supercardioid

60Hz - 15KHz

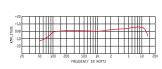
500 ohms

CAD12 Cardioid Handheld Dynamic Microphone

• On/Off Switch

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





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[™] of headphones deliver exceptional audio reproduction with the legendary performance, durability and comfort you expect from CAD Audio.

ARTISTS USING SESSIONS[™] MH510 HEADPHONES

Disashi Lumumba-Kasongo with Gym Class Heros Jon Garber/FOH: Band Perry, Rascal Flatts, Brad Paisley Fred Wreck (Nasser)/Snoop Dog, Britney Spears, Hillary Duff Eric Nicolau/Bridgit Mendler Joss Stone/John "Skins" Godenzi Sharon Aguilar/Cee Lo Green Buck Dharma/Blue Oyster Cult **Bad Veins** Dan Aykroyd 3 Doors Down Trace Adkins/Jon Coleman Johnny Winter Aux88 Gov't Mule/Warren Haynes Eric Clapton Crossroads Festival Nick Cooper Studio/Vocal Store LA Kimberly Phillips/Playmate, Sept '09 Luxor/FOH: Carrott Top, Dan O'Leary

Karmin Phil Buckman/Filter LOU Cabo Wabo Cantina Bonnaroo Festival Jillette Johnson OffSpring/Petty Cash Motown the Musical House of Blues SOJA Walk off the Earth Zac Brown Band John Oates/Hall & Oates DJ Yella/NWA Circle House Studios Hay Bale Studios LAWIM Kimberly Thompson/Beyonce Brandon Coleman/Alicia Keys Supa Dups/Producer Bruno Mars

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MH510 Headphones



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. Six colors to choose from: Black, White/Red, White/ Gold, White/Chrome, Black Chrome and Black/Orange for the look and style your session deserves.

Specifications

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



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HEADPHONES



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 19 dB. 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



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



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

HP110

Studio Headphone Bundle

Contains four MH110 Studio Headphones and one HA4 Four Channel Stereo Headphone Amplifier.



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 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. -10 dB 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.



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.



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 windscreen is included. PC and Mac compatible.



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 legal records. 10' USB cable included. PC and Mac compatible.



USB Cardiod 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 cardiod 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.

U1



ASTATIC COMMERCIAL

The Astatic Commercial Series continues to offer unique products for the sound contractor. Astatic Commercial products feature commercial grade sturdiness and durability. This series is designed for years of dependable operation in industrial, government, house of worship and business applications. Features such as Variable Pattern Control, RF Resistant Architecture, Logic Compatibility, and external contact closures are only a few of the contractor friendly features found in the Astatic Commercial series.



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).

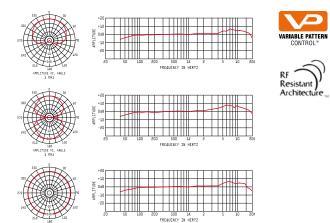
Specifications	
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	40Hz – 20KHz
Sensitivity	-29dBV (35 mV) @ 1 Pa
Impedance	135 ohms
Max SPL	110dB
Self Noise	22dBA
Hi-Pass	Selectable 80Hz, 12dB/oct
Power Requirements	P12, P24, P48, 4 mA

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.





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, 12 dB/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.

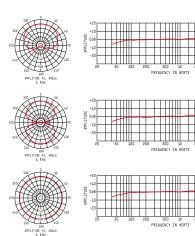
Specifications	
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	40Hz – 20KHz
Sensitivity	-29dBV (35 mV) @ 1 Pa
Impedance	135 ohms
Max SPL	110dB
Self Noise	22dBA
Hi-Pass	Selectable 80Hz, 12dB/oct
Power Requirements	P12, P24, P48, 4 mA

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.







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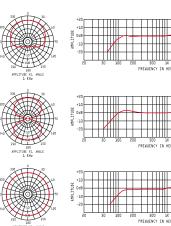


930VPL

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 feather touch 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



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LOGIC



901VP

Continuously Variable Polar Pattern Desktop Boundary Condenser Microphone

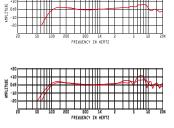
Portable or mounted boundary mic for use on conference tables or stage floors. Featuring an all metal body and rugged rubber bottom make this a commercial grade boundary microphone. Improved RF immunity to greatly reduce susceptibility to radio interference from GSM based cell phones, PDA/cell phones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

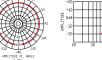
Specifications	
Operating Principal	Permanently-Biased Condenser
Polar Pattern	Continuously Variable
Frequency Response	100Hz – 20KHz
Sensitivity	-33dBV (22.4 mV) @ 1 Pa
Impedance	150 ohms
Max SPL	120dB, 1% THD, 1KHz
Self Noise	22dBA
Power Requirements	P12, P24, P48, 4mA

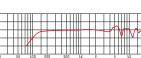












BOUNDARY

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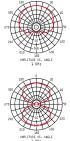


220VP

Continuously Variable Polar Pattern Condenser Boundary Microphone

Miniature installation, continuously variable polar pattern, button-style, condenser boundary microphone designed for surface installation. Special attention has been given to design the 220VP to resist 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. The all metal, threaded body and shock-absorbing bushings make for easy installation in surfaces up to 3" thick. For remote polar control add the VPC-1 or a compatible DSP. Available in 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











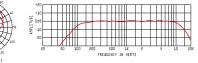
201R / 202RW

RF Resistant Mini-Boundary Condenser Microphone

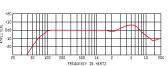
Miniature installation button style condenser boundary mics for use in teleconferencing or voice lift sound reinforcement. Other applications include surveillance, ambient recording or audio observation. Improved RF immunity to greatly reduce susceptibility to radio interference from cell phones, PDA 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









ASTATIC COMMERCIAL

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".

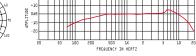
Specifications
Operating Principal
Polar Pattern
Frequency Response

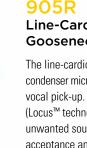
Moving Coil Dynamic Cardioid 200Hz – 16KHz -56 (1.6 mV) @ 1 Pa 600 ohms



Sensitivity Impedance

0	
330 30	+20
300	+10
HAR SHEATH	AMPLITU36 098
	i - 10
051	-20
	i
210 190 120	
AMPLITUDE VS. ANGLE	
1 KHz	





905R Line-Cardioid Mini Condenser Gooseneck Microphone

The line-cardioid, quick-mount, miniature gooseneck condenser microphone is designed for speech and vocal pick-up. The line-cardioid polar pattern (Locus[™] technology) 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 speaker. The 905R is appropriate for applications such as boardrooms, courtrooms, house of worship and anywhere a gooseneck microphone with optimal distance pick-up is needed. Matte black finish with an overall length of 11". Windscreen and FM-2A XLR-F mount included.

Specifications

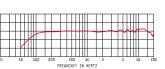
PTAT

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









GOOSENECK

ASTATIC COMMERCIAL

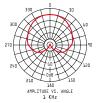
915B / 920B

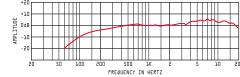
Cardioid Mini Condenser Gooseneck Microphone

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



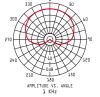


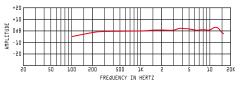
827A

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





OVERHEAD CONDENSER

ASTATIC COMMERCIAL



210

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

The Astatic 210 is a miniature-boundary microphone designed for installation in security, ambient monitoring and observation applications. The output level is variable from -30dBV (32mV) to +8dBV (2.5V) @ 1 Pa which is designed to interface with security cameras, digital video recorders and other observation and recording devices.

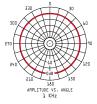
Astatic's internal audio limiter circuitry tames high sound pressure levels and improves intelligibility by protecting the audio signal from distorting sensitive recording circuitry in cameras and digital recorders. The integrated volume control is located on the side of the microphone and is protected from tampering when the microphone is installed. The integrated 180Hz, 6 dB/oct high-pass filter attenuates unwanted low frequency energy.

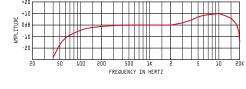
9 to 24 VDC (70mA) is required to power the microphone (not supplied). The connection is made through a removable phoenix style connector on the opposite end of the microphone. The connector accepts DC power and outputs an unbalanced, amplified signal.

The Astatic 210 housing is all-metal, designed for commercial applications. 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





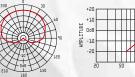


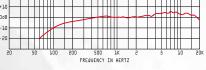
900

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





DYNAMIC PAGING

ASTATIC COMMERCIAL

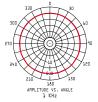


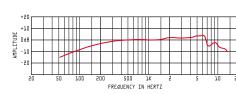
AMC105 Omnidirectional Dynamic Heavy-Duty Microphone with Push-to-Talk Switch

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. Long lasting push-to-talk switch with external contact closure. Dual zone available as the AMC105-2-19 featuring 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. 19" heavy-duty chrome plated gooseneck and 2¾" flange included. 6' cable terminates with stripped and tinned ends.

AMC105SNO-19: Single Zone 19" Heavy-Duty Gooseneck and Flange AMC105-0074: Single Zone 19" Heavy-Duty Gooseneck and Flange Separated AMC105-2-19: Dual Zone 19" Heavy-Duty Gooseneck and Flange

SpecificationsOperating PrincipalMoving Coil DynamicPolar PatternOmnidirectionalFrequency Response150Hz – 10KHzSensitivity-56dBV (1.6 mV) @ 1 PaImpedance550 ohms







119L / 119S Cardioid Dynamic Heavy-Duty Microphone

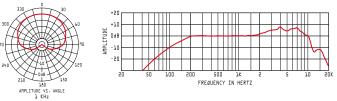
For fixed paging applications such as fast-food restaurants, supermarkets, gas stations, busing and transportation, commercial facilities and dispatch. Cardioid directional pick-up for maximum rejection of feedback or unwanted ambient noise. Should require up-close, focused attention by user. Switched version available with long lasting switch and external contact closure. 19" heavy-duty chrome plated gooseneck and 2¾" flange included. 6' cable terminates with stripped and tinned ends.

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

119LB-19: No Switch Matte Black 19" Heavy-Duty Gooseneck and Flange Separated

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



DYNAMIC PAGING

ASTATIC COMMERCIAL



611L / 631L / 651

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 **651:** Omnidirectional 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

651: Specifications

Operating Principal	Moving Coil Dynamic
Polar Pattern	Omnidirectional
Frequency Response	500Hz – 8KHz
Sensitivity	-49dBV (3.6 mV) @ 1 Pa
Impedance	600 ohms



Specifications

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



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.

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
	00+ 00- 00- 00- 00-

FREQUENCY IN HERTZ

CCESSORIES

GOOSENECK ACCESSORIES 40-116 Shock Mounted

GSM-1

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

FM-2A

XLR-F Connector on 1¾" diameter mounting flange with locking ring.



Flange mount and XLR adapter kit for mini gooseneck mic.



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

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

CONTROL BOXES AND RACK SHELF

WINDSCREENS

EPF-15A

Pop Filter with 6" diameter screen on 15" gooseneck.



WALL PLATE

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.

AUDIO CABLES



40-354 30' Cable terminated with 3-pin XLRM and TA3F.

40-355 30' Cable terminated with 3-pin XLRM and TA4F.



40-360 24" Cable terminated with 3-pin XLRF and Phoenix-type plug.

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.



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

MB-1 56 "Miniature Choir Boom with TA3F and TA3M for use with the 1600VP microphone system.



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

DSM1 Lug mounted drum mic shock mount clamp.

DMC1 Rim mounted drum mic clip.





MZM-5

Elastic Suspension Shock Mount for M177, M179, and M9.

GZM-6

Elastic Suspension Shock Mount for the GXL3000, GXL2400 and GXL2200.



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