



## ENG 618

### Integrated Shotgun/ Boom-Pole Microphone

- Electret Condenser
- Collapses to 18 inches—expands to 6 feet
- Highly Directional
- High Sensitivity
- Very Lightweight Carbon Fiber Pole
- Suspension Shockmount
- Built-in Headphone Amp
- Phantom or Battery Powered
- Low-Battery Indicator

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#### Description

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The Electro-Voice ENG 618 is a hypercardioid-line (shotgun) back-electret condenser microphone designed for broadcast news gathering applications where selective pickup in a multisound environment is required.

The frequency response of the ENG 618 microphone can be varied by the 200 Hz roll-off switch. In the roll-off position the ENG 618 provides a full-range, well-balanced sound character for clean and accurate voice reproduction. In the flat position, low-frequency sounds can be sourced for background special effects or to mic specific natural or environmental audio.

The microphone's hypercardioid-line polar characteristic provides maximum output from the desired source, while rejecting unwanted off-axis noise.

The ENG 618 boom pole is designed to extend allowing the integral microphone to be placed over several rows of people with little effort. The product's light weight and excellent balance allows consistent audio coverage without fatigue.

The ENG 618 is easily collapsed to 18 inches overall length for quick and efficient transport.

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#### Powering the ENG 618

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The ENG 618 is powered by an external 12 - 52 volt phantom power supply or 9-V battery. The battery is needed to operate the headphone amplifier circuit. Initial use of the battery circuit, causes the low-battery indicator to flash momentarily. The low-battery LED remains on when the voltage drops indicating a need to replace the battery.

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#### Operation

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To operate the ENG 618, use high-quality balanced cable with XLR connectors to connect the electronics housing to the mixer input. If the mixer is supplying phantom power, this will power the ENG 618 with or without the 9-V battery. Without phantom power the ENG 618 requires a 9-V battery.

An 1/8-in. mini-plug may be used to connect an 8-ohm stereo headphone to the ENG 618. Plugging into the headphone jack automatically switches on the battery power to the volume-adjustable headphone amplifier. This allows the operator to hear the "sound field" through the headphones whether on-line via the XLR connector or not. This can be very useful when doing a background environmental sound check before the actual "on-air" use.

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The headphone jack could also be used to connect to a portable tape recorder for quick minimal equipment coverage.

Each segment of the telescoping boom pole can be secured with a twist of the collet at any position along its length. By loosening, the segments can collapse quickly into each other. Folding the microphone toward the handle allows the unit to locate into the base for storage.

## Architectural and Engineering Specifications

The microphone shall be a back-electret condenser with a hypercardioid-line polar pattern. The microphone shall be used in the manner of a handheld microphone. The microphone shall have a frequency response from 50 Hz to 8 kHz with a switchable 200 Hz roll-off. The product shall have a balanced output with a 100-ohm nominal impedance. The open-circuit output voltage shall be 19 mV/pascal. The microphone capsule shall be made of brass; the electronics housing shall include a bass roll-off filter circuit, an adjustable output 9-volt battery-powered headphone amplifier and a low-battery LED indicator.

The microphone shall be permanently connected to its extension boom pole and electronics module via an internal coiled, shielded miniature audio cable. The boom pole shall be capable of being extended and made secure at any position along its length. The finish on all exposed surfaces shall be a non-reflecting black. The microphone shall be supplied with windscreen and storage pouch. The ENG 618 is specified.

## Limited Warranty

Electro-Voice products are guaranteed against malfunction due to defects in materials or workmanship for a specified period, as noted in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual, beginning with the date of original purchase. If such malfunction occurs during the specified period, the product will be repaired or replaced (at our option) without charge. The product will be returned to the customer prepaid. **Exclusions and Limitations:** The Limited Warranty does not apply to: (a) exterior finish or appearance; (b) certain specific items described in the individual product-line statement(s) below, or in the individual product data sheet or owner's manual; (c) malfunction resulting from use or operation of the product other than as specified in the product data sheet or owner's manual; (d) malfunction resulting from misuse or abuse of the product; or (e) malfunction occurring at any time after repairs have been made to the product by anyone other than Electro-Voice Service or any of its authorized service representatives. **Obtaining Warranty Service:** To obtain warranty service, a customer must deliver the product, prepaid, to Electro-Voice Service or any of its authorized service representatives together with proof of purchase of the product in the form of a bill of sale or receipted invoice. A list of authorized service representatives is available from Electro-Voice Service at 600 Cecil Street, Buchanan, MI 49107 (800/234-6831 or FAX 616/695-4743). **Incidental and Consequential Damages Excluded:** Product repair or replacement and return to the customer

are the only remedies provided to the customer. Electro-Voice shall not be liable for any incidental or consequential damages including, without limitation, injury to persons or property or loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. **Other Rights:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Electro-Voice Wired Microphones** are guaranteed against malfunction from any cause for two (2) years from the date of original purchase. In addition, the Limited Warranty for the acoustic system contained in these microphones shall apply for the life of the product, defined as a period of ten (10) years from the date that the manufacture of the specific microphone has been discontinued. Any and all active electronics incorporated in these microphones are guaranteed against malfunction due to defects in materials or workmanship for a period of three (3) years from the date of original purchase. The Limited Warranty does not extend to cables, cable connectors, or switches. Additional details are included in the Uniform Limited Warranty statement.

**For warranty repair** or service information, contact the service repair department at: 616/695-6831 or 800/685-2606.

**For technical assistance**, contact Technical Support at 800/234-6831 or 616/695-6831, M-F, 8:00 a.m. to 5:00 p.m. Eastern Standard Time.

Specifications subject to change without notice.

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Figure 1—Frequency Response

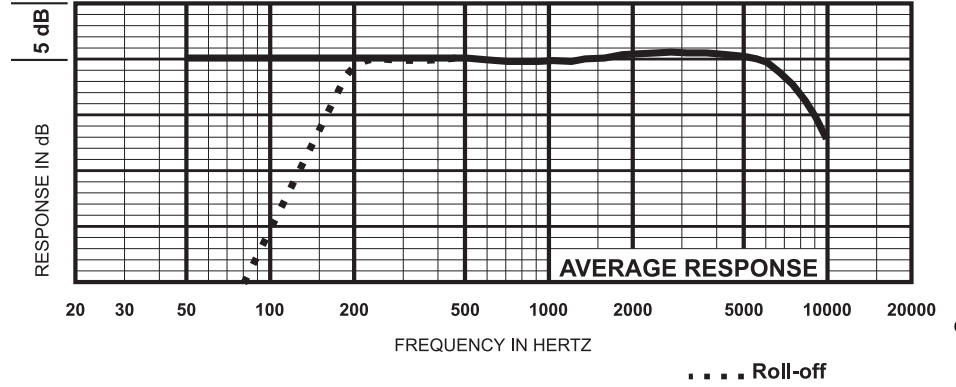
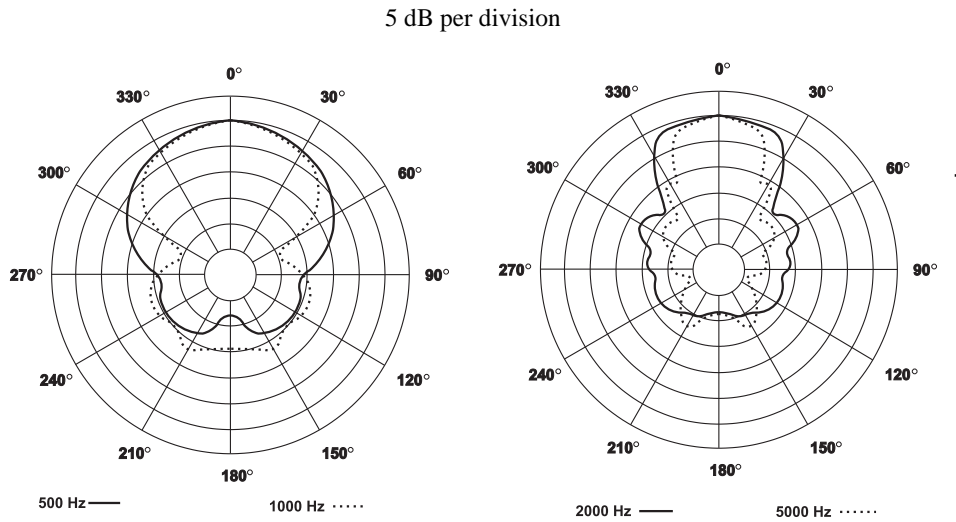


Figure 2—Polar Response



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# ENG 618 Integrated Shotgun/Boom-Pole Microphone

## Specifications

### Generating Element:

Condenser, back electret

### Frequency Response (see Figure 1):

50 - 8,000 Hz

200 Hz roll-off switch

### Polar Pattern (see Figure 2):

Hypercardioid-line

### Sensitivity, (Open Circuit Voltage, 1 kHz):

19 mV/pascal

### Power Level, 1 kHz (0 dB = 1 mW/pascal):

-55 dB

### Clipping Level (1% THD):

120 dB SPL

### Equivalent Noise:

15 dB SPL, A -weighted

### Dynamic Range:

105 dB

### Output Impedance, 1 kHz:

100 ohms

### Power Requirements:

12-to 52-V dc phantom supply or 9-V battery

### Current Consumption:

2 mA. phantom

20 mA. battery

20 hours estimated battery life.

### Polarity:

A positive pressure on the diaphragm produces a positive voltage on output pin 2 (+).

### Finish:

Nonreflecting black

### Dimensions:

#### Length:

46 cm (18 in.) collapsed

180 cm (6 ft.) extended

#### Diameter:

9 cm (3.5 in.) circle

#### Capsule Diameter:

5.3 mm (0.21 in.)

### Net Weight:

1000 grams (2.0 lb)

### Shipping Weight:

1,400 grams (3.1 lb)

### Accessories Furnished:

Windscreen

Vinyl utility pouch with belt loop

## Electro-Voice®

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