

# RE420-RC3 Wireless head with RE420 capsule

- Thread-on microphone head for Electro-Voice and other brand's wireless handheld transmitters
- Premium condenser element delivers a highly-detailed, rich, and full bodied sound
- Cardioid polar pattern provides excellent acoustic isolation with a comfortable working range
- Multi-stage pop filter minimizes breath blasts and plosives
- Selectable high-pass filter reduces undesirable low frequency content when engaged



The RE420-RC3 is a premium-grade, high-performance, condenser cardioid thread-on vocal microphone head for wireless handheld transmitters. Designed to reveal the exceptional detail and vivid clarity synonymous with condenser elements, it skillfully delivers the lyrical finesse required for expressive vocal performances.

This microphone head electrically and mechanically adapts to Electro-Voice (and many other brands) wireless handheld transmitters that use the common 3-contact rings, 1.25" diameter by 28-thread pitch coupling convention. The floating captured ID collar will spin freely until screwing the head on tightly. It will remain locked in place when fully tightened. This allows the desired orientation of the branding to the transmitter.

The sonic signature is rich, detailed and full-bodied, with a warm and clear low end, natural and present midrange, and an open, crisp and detailed high end. The cardioid pattern provides excellent acoustic isolation. Maximum feedback rejection occurs when a stage monitor is positioned 180° off-axis to the element. This pattern also allows for a comfortable working range around the microphone making expressive microphone techniques easy.

The multi-stage pop filter consists of two layers of dense foam separated by air, which attenuates wind velocity caused by breath and windblasts. The high-pass filter has two positions (see drawing). The flat position delivers the full frequency band pass of the capsule. The high-pass position attenuates frequencies below 150 Hz. The internal shock mount isolates the microphone element from vibration and guards against handling noise.

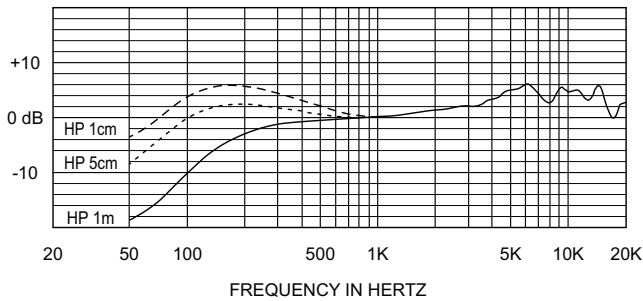
## Technical specifications

Element type:	Self-biased condenser
Frequency response:	50 Hz-20 kHz (see chart)
Polar pattern:	Cardioid
Sensitivity, open circuit voltage @ 1 kHz:	5.6 mV/Pascal (-45 dBV/Pa)
Clipping (max SPL):	137 dB SPL (1% THD)
Self noise:	22 dB SPL "A" weighed (0 dB=20 µPa)
Dynamic range:	115 dB
Signal-to-Noise ratio:	72 dB

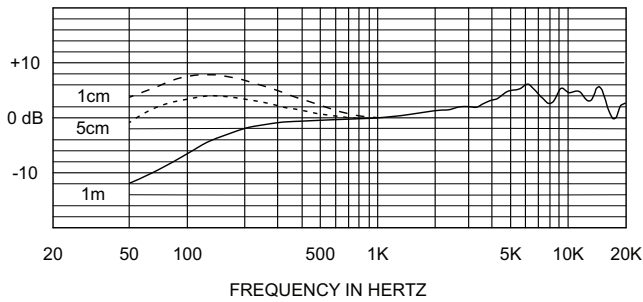
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Output impedance:	1000 ohms
Power requirements:	4-8 VDC phantom power
Polarity:	Positive pressure on diaphragm produces positive voltage at center contact relative to ground contact.
Electrical contact:	3-Ring/3-Pin
Threaded coupling:	1.25" diameter 28 UN-2A thread pitch
Finish:	Black polyurethane paint
Materials:	Aluminum, steel, steel wire grille screen
Dimensions, length: diameter:	3.36 in. (85.3 mm) 1.95 in. (49.6 mm)
Net weight:	4.6 oz (130 g)
Shipping weight:	6.5 oz (184 g)

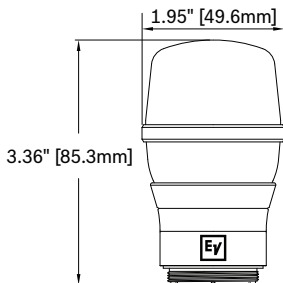
**Frequency response:**  
High-Pass



Flat



**Dimensions:**



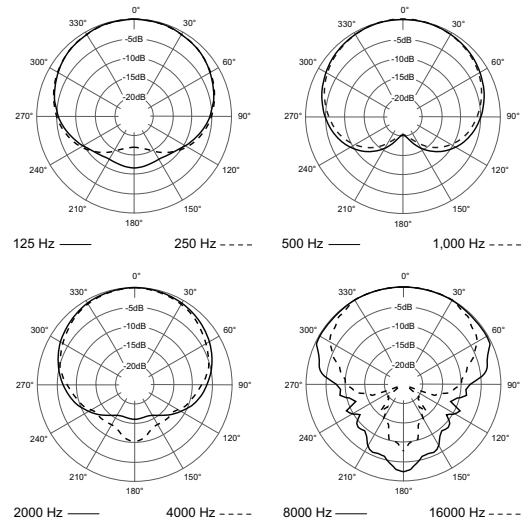
**Notice!**

It is important to prevent under-driving or over-driving the handheld transmitter input stage. Pay special attention when matching the transmitter input sensitivity to this microphone head.

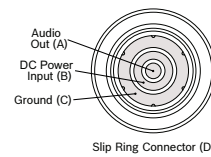


Adjust the transmitter sensitivity to a level where the audio path meter on its companion receiver shows 75%-95% full on high-emphasis vocal peaks for optimal signal strength and quality.

**Polar response:**

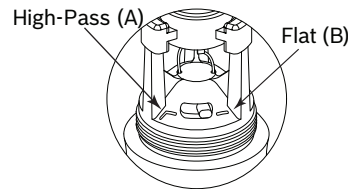


**Bottom view:**



- A Audio out
- B DC power input
- C Ground
- D Slip ring connector

**High-Pass filter:**



- A High-Pass
- B Flat

Replacement parts	Description
RE420GRILLE	Replacement grille, black

## Parts included

Quantity	Component
1	Thread-on microphone head
1	Engineering datasheet
1	Warranty and product documentation information card

## Ordering information

### RE420-RC3 Wireless head with RE420 capsule

Condenser cardioid screw-on vocal microphone head, black

Order number **RE420-RC3**

### Accessories

#### 379-1 379-1 WINDSCREEN, BLACK, PACKAGED

Foam windscreen/pop filter, black

Order number **379-1**

### Represented by:

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