

# Evno Microphone Systems

## Instructions

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## Evno Microphone Systems Instruction Manual

*Thank you for choosing Evno Microphones! Evno Microphones are a hand-made, high-quality microphone designed for each specific instrument to capture the natural sound of your acoustic instrument. Please read this instruction manual carefully to ensure optimal performance and enjoyment of your microphone.*

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### 1. Introduction:

Welcome to the world of premium audio capture for your acoustic instrument. The Evno Microphone is crafted to faithfully reproduce the nuances and details of your playing, delivering a true representation of your instrument's sound. Each model is built for each specific instrument. We manufacture each microphone and clamp for specific purpose rather than general needs. Often, due to many years studying and performing with many different instrumentalists, we have found that even players that are playing the same instrument require different options. Evno offers these options addressing not only the playing and mounting styles but wireless needs as well.

### 2. Microphone System Contents Table:

| Microphone + Preamp:                                                                                                                                                                                                                                          | Microphone + Wireless Air:                                                                                                                                                                                                                                                              | Microphone + Wireless W1:                                                                                                                                                                                                                                                                              | Microphone + Wireless W2:                                                                                                                                                                                                                                                                                   | Microphone Only (For Wireless)                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Microphone (Varies by instrument)</li><li>• PS95 Power supply.</li><li>• Ta3-Ta4 Cable.</li><li>• Mic carrying pouch</li><li>• Clamp (Varies by instrument)</li><li>• Foam Windscreen</li><li>• User Manual</li></ul> | <ul style="list-style-type: none"><li>• Microphone (Varies by instrument)</li><li>• Clamp (Varies by instrument)</li><li>• Foam Windscreen</li><li>• Air Receiver</li><li>• Transmitter</li><li>• Receiver power supply.</li><li>• Metal carrying case.</li><li>• User Manual</li></ul> | <ul style="list-style-type: none"><li>• Microphone (Varies by instrument)</li><li>• Clamp (Varies by instrument)</li><li>• Foam Windscreen</li><li>• W1 Receiver</li><li>• Transmitter</li><li>• Receiver power supply.</li><li>• Rack kit.</li><li>• (2) BNC Antennas</li><li>• User Manual</li></ul> | <ul style="list-style-type: none"><li>• Microphone (Varies by instrument)</li><li>• Clamp (Varies by instrument)</li><li>• Foam Windscreen</li><li>• W2 Dual Receiver</li><li>• Transmitter</li><li>• Receiver power supply.</li><li>• Rack kit.</li><li>• (2) BNC Antennas</li><li>• User Manual</li></ul> | <ul style="list-style-type: none"><li>• Microphone (Varies by instrument)</li><li>• Cable. (Varies by choice.)</li><li>• Mic carrying pouch</li><li>• Clamp (Varies by instrument)</li><li>• Foam Windscreen</li><li>• User Manual</li></ul> |

### 3. Microphone Overview:

- **Microphone Body:** The main body houses the Ta3 Mini XLR connector, accepts the clamp, and allows for mounting of the A1 Transmitter.
- **Microphone Clip or Mount:** Attach the microphone securely to your instrument.
- **Foam Windscreen:** Use as needed to reduce outside wind noise. Not required for operation.
- **PS95 Preamp:** Powers the microphone at it's appropriate power requirements. The PS95 is powered by phantom power or (1) AA Battery.
- **Wireless Setups:** The microphone's circular body post allows the A1 transmitter to attach to it. To attach, slide the corner of the A1 transmitter's clip on to the top portion on the body of the microphone. Antenna position should be pointing to the floor when attached. Rock the transmitter clip on from top to bottom to attach, snapping it on squarely may snap the clip. \*\*See wireless instruction for more wireless information.

### 4. Connecting the Microphone:

1. Identify the appropriate cable for your desired setup. Identify the 3pin (Black) verse 4pin (Silver) ends of the cable. Connect ONLY the 3 pin Mini XLR to the body of the microphone. Accidentally plugging the 4 pin side into the microphone will damage the pins in the body of the microphone and connector on cable.
  1. **3pin Ta3 - 4pin Ta4** Cable for use with Evno Microphones hardwired to PS95 Power supply preamp or Shure Wireless. 3 pin side of cable always connects to microphone.
  2. **3pin Ta3 - 3pin Ta3** Cable for use with Evno Microphones to AKG and McCormick wireless
  3. **3pin Ta3 - 3.5mm (1.8in)** Cable for use with Evno Microphones to Sennheiser wireless.
4. If using the PS95 power supply, connect the 4pin side of the cable to top of power supply. \*\*See #5 for more information.

### 5. PS 95 Power supply / preamp

The PS95 Power supply is designed to provide specific powering voltage to an Evno Microphone. \*Using the microphone without the PS95 or a wireless transmitter can damage the capsule. The PS95 is powered by either phantom power from the mixing console or (1) AA battery. \*\*DO NOT use a specialty cable to connect microphone directly to a phantom power source without the PS95 or a wireless transmitter between the mic and console.

1. Connect the 4pin Ta4 Mini XLR connector from the microphone cable to the 4pin connector on the top of the PS95 being sure to line up the notch for the release button.
2. Connect a XLR cable (not included) from XLR output on PS95 to the mixing console.

3. Turn either phantom power on to power the PS95 from the mixing console or insert (1) AA battery into the battery compartment. **NOTE\***: When powering with (1) AA battery the PS95 can be completely turned off via the off button on the side of power supply. When powering with phantom power, the PS95 off button will be inactive and remain on unless phantom power is turned off at console.
4. Frequency roll off switch.
  1. To begin, place the frequency roll off switch on the side of the PS95 to the flat line position indicating a flat frequency response. This will also power the power supply on if using a battery. If using phantom power the power supply will already be on.
  2. Adjust the switch to low shelf position to roll off unwanted low rumble frequencies if needed. Instrument microphone should not be sent through sub-bass. If the system is producing sound from the microphone out of the Sub-bass speakers, this roll off can be used to reduce that. You can also use a low-shelf button on the console if provided or in the last case scenario, roll some low end off on the EQ itself.

## 6. Placing and mounting the Microphone:

Experiment with microphone placement to find the best position for your instrument. Use the gooseneck to adjust various access angles. Capturing the sound of your instrument at various distances can play a role in determining what is best for your playing situation. Allowing the sound to escape more or less before it is captured can also be considered for different effects and playing styles. Common placements include:

- **SX Saxophone:** Use the provided SXCL clamp to attach clamp to tapered center post on body of microphone. The spring loaded jaw of the microphone has a notch that is positioned and intended to fit onto the bottom of the bell / rim of the saxophone or flanged bell'd instruments. Align the notch of the clamp into the under side of the bell. Tighten till snug. Adjust gooseneck over bell of microphone as desired.
- **SPX1 Soprano Saxophone:** The single microphone setup for Soprano utilizes the same SXCL clamp as the alto / tenor / Bari models however you must reverse the direction of the clamp so the rim provision in the clamp is placed on the soprano bell in the direction of the keys rather than the open portion of the bell. The reinforcement tightening screw will also face the keys of the instrument. Tighten the clamp to prevent any shifting, insert the extension rod into the clamp and position head of microphone towards the middle of the instrument.
- **SPX2 Double Soprano Saxophone:**
- **TBX Trombone / TPX1 Trumpet:** Attach the provided Evno Swivel clamp to tapered center post on body of microphone by removing the nut and washer. Slide clamp posts around center post, replace the washer, and tighten with threaded nut. The swivel clamp provides the option to further move the microphone away from the bell of the horn as desired. For additional clamp options see website.

- **TPX2 Trumpet:** \*\*For bell mounting see TPX1. For off the bell mounting, attach the SPX2 Clamp to the lead pipe of the trumpet, attach the extension rod to the hole in the SPX2 Clamp, tighten till snug. Attach the top portion of the extension rod to the tapered center post on the body of the microphone by removing the nut and washer. Slide clamp posts around center post, replace the washer, and tighten with threaded nut. In the event that a conversion to bell mounting is needed; unscrew the extension rod's adapter, with included Swivel clamp parts, assemble the Swivel clamp with small Phillips head screw driver. Attach included Swivel clamp back onto narrowed body of microphone.
- **CLX Clarinet / Oboe:**  
Attach clamp to clarinet onto and around where the bell of the instrument attaches to the barrel. On an oboe, it will attach to the bell below the keys.
- **BSX1 Bassoon:**  
Loosen thumb screw on the top of clamp and insert the gooseneck of microphone into the slotted provision and re-tighten thumb screw positioning the gooseneck along padded stabilizer. The plastic body of the microphone should be positioned at bottom of clamp. Wrap the velcro strap around the instrument AND the gooseneck just above the body of the microphone in order to tighten a firm grip. Position head of microphone as desired over the top of bell joint.
- **BSX2 Bassoon:**  
Follow BSX1 for top mounted microphone. Due to the versatility of the Evno design, the lower microphone could be placed in several spots. Placing the strap / microphone either on the top or bottom of the boot joint offers various options. Again, place the microphone gooseneck into the clamp as in BSX1, re-tighten the thumb screw and attach the strap to bottom protector cap with the microphone facing in the upward direction, OR at the top of the boot joint by feeding the strap under the key rods keeping the velcro flat on the joint connector from the boot joint to the bass joint. Microphone position could be upward or downward from that position as desired. Options may vary depending on the instrument build from each manufacture.
- **Acoustic Guitar:** Near the soundhole or at the 12th fret.
- **Violin:** Near the bridge or tailpiece.
- **PNX1 - Piano:** Attach microphone to the clamp by inserting either the narrowed body of the microphone or the gooseneck into the PN-CL clamp and tighten with the thumb screw. The position of the microphone is ideally between the 2nd and third sound hole on a grand piano. Using this position as a guide to fine tune your preferred position will help you to achieve the best location for the particular piano that you are working with. The gooseneck will also assist in various angles as desired. The PN-CL clamp is a magnetic clamp which will place easily inside and on the case iron plate.

For upright piano applications, the suggested location would be on the inside of the lower wood board that is facing your knees while playing. The microphone

should be faced towards the inner sound board. Attachment of the PN-CL clamp will vary depending on the instrument.

\*\*Additional clamps are available for a microphone stand mounting option. See Evno ST-CL clamp.

- **PNX2 - Piano Stereo:** Attach microphones to the clamps by inserting either the narrowed body of the microphone or the gooseneck into the PN-CL clamp and tighten with the thumb screw.

## 7. Adjusting Microphone Settings:

- Use the gain control on your audio interface or mixer to set the desired recording level. Evno microphones suggest setting up your gain structure in the order:
  - Turn down volume on channel and gain control.
  - Set Channel EQ to flat.
  - Set master volume control to U or unity. Often labeled as 0.
  - Plug XLR cable (not included) from PS95 Preamp / power supply to a microphone input on mixing board. If using wireless, connect XLR (W1 & W2) or 1/4in cable from back of Air receiver into mic level inputs and not line level inputs.
  - Turn your channel volume now to 0 or unity and if using wireless, set to about 3/4.
  - Slowly raise your gain level until the point of feedback, and drop back below feedback level.
  - Experiment with low-roll off switch on microphone input channel as desired.

## 8. Care and Maintenance:

- Avoid exposing the microphone to extreme temperatures or humidity.
- Store the microphone in its protective case when not in use.
- When not necessary, avoid removing the A1 clip from the microphone and leave on in protective case or microphone pouch. Doing so, will put less stress on A1 transmitter clamp.