

# PINMIC™

## INSTRUCTION MANUAL



**RØDE**<sup>®</sup>  
MICROPHONES



[www.rodemic.com](http://www.rodemic.com)



# INTRODUCTION

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Thank you for investing in the **RØDE** PinMic™.

Whether you're presenting for television or live on-stage, in a 20,000 seat auditorium or in a house of worship, **RØDE** has your needs covered with the intuitive and subtle PinMic™.

Featuring innovative, industry-leading design, the **RØDE** PinMic™ is the first of its kind. The pin-on placement of the microphone provides an ultra discreet appearance, while also simplifying cable management.

The included mini-furry for high wind protection ensures quality recordings in adverse environments, while the anti-trauma water resistant case provides rugged and secure protection for the microphone, cable and accessories.

Knowing that versatility is paramount in any product, we at **RØDE** have developed the MiCon™ connector system which provides seamless integration between the PinMic™ and a wide range of wireless systems.

Please take the time to visit [www.rodemic.com](http://www.rodemic.com) and register your microphone for warranty.



Peter Freedman

**RØDE** Microphones  
Sydney, Australia

# FEATURES

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## INTUITIVE AND SUBTLE

- Ultra discreet appearance
- Lightweight and easy to position
- Pins through clothing up to approximately 1.5mm (0.006") thick (standard model) or approximately 1.5 ~ 3.5mm (0.006 ~ 0.14") thick (heavy duty model)
- Removable mesh head

## HIGH QUALITY PERFORMANCE

- Low noise miniature microphone capsule
- Low handling noise

## UNIVERSAL COMPATIBILITY

- RØDE MiCon™ connector system provides seamless integration with a wide range of wireless systems while maintaining discreet and unobtrusive appearance



# PINMIC™ & ACCESSORIES

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1. RØDE PinMic™
2. Supplementary mesh head (silver) suitable for spray paint customisation to fully match clothing
3. Anti-trauma water resistant storage case
4. Mini-furry for high wind protection
5. Shielded Kevlar® reinforced cable with moulded backplate
6. Lapel-style cable management clip
7. Adjustment tools
8. Sanitary cleansing wipes

Compact, interchangeable MiCon™ adaptors available to suit industry standard wireless systems\*



\*MiCon™ adaptors sold separately - see [rodemic.com/pinmic](http://rodemic.com/pinmic) for a full list of compatibility

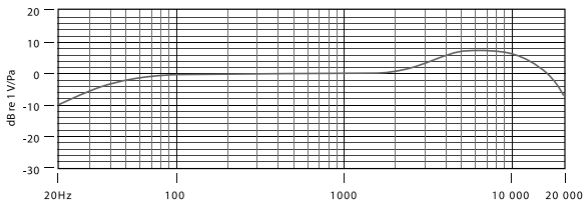
# SPECIFICATIONS

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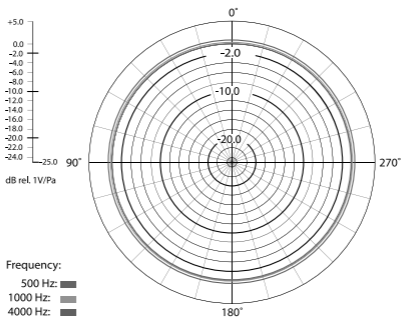
<b>Acoustic Principle:</b>	Permanently polarised condenser
<b>Directional Pattern:</b>	Omni-directional (see graph)
<b>Frequency Range:</b>	60 Hz ~ 18 kHz (see graph)
<b>Output Impedence:</b>	3k $\Omega$ Typical
<b>Signal To Noise Ratio:</b>	69 dBA
<b>Equivalent Noise:</b>	25 dBA SPL (per IEC651)
<b>Clipping SPL:</b>	110 dB
<b>Maximum Output:</b>	189 mV*
<b>Sensitivity:</b>	-33.5 dB re 1 V/Pa (21 mV @ 94 dB SPL) $\pm$ 3 dB @ 1 kHz
<b>Dynamic Range:</b>	85 dB Typical*
<b>Power Requirements:</b>	Min 2 V ~ Max 5 V through RØDE wireless adaptors P48 through RØDE XLR adaptor
<b>Output Connection:</b>	RØDE MiCon™ connector

# SPECIFICATIONS

## FREQUENCY RANGE



## POLAR RESPONSE

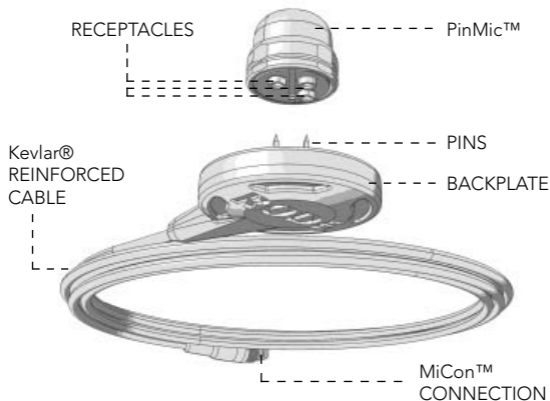


\* Calculated from maximum SPL peak before clipping.  
All measurements are calculated when powered at 5 V or P48 (RØDE XLR adaptor)

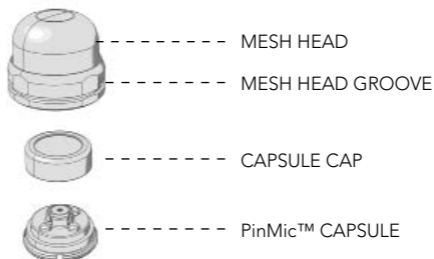
# PINMIC™ STRUCTURE

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## PINMIC™ ASSEMBLY



## PINMIC™ CAPSULE





# MIC PLACEMENT

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For the best performance, the PinMic™ should be positioned as close as possible to the sound source, without being subject to clothing rustle, gusts of air or dust.



Position the microphone close to the sound source

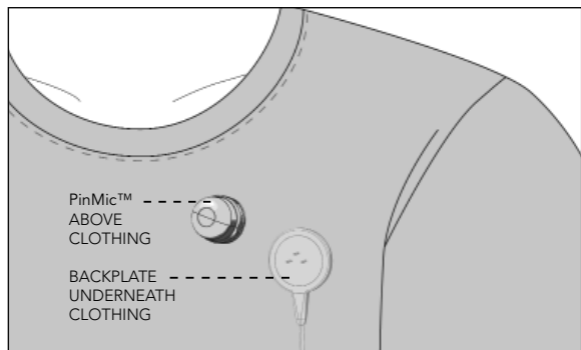
At times it may be best to test different placements to provide the optimal combination of sound quality and discretion.

# FITTING YOUR PINMIC™

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To fit your PinMic™ and connect to your wireless system, first pin the backplate of the microphone to your clothing, close to the sound source.

You may do this by weaving the backplate and cable up from underneath the user's clothing, or placing it just behind the lapel on a jacket. Ensure the backplate is hidden underneath the fabric, then press through until the pins are exposed on the other side.

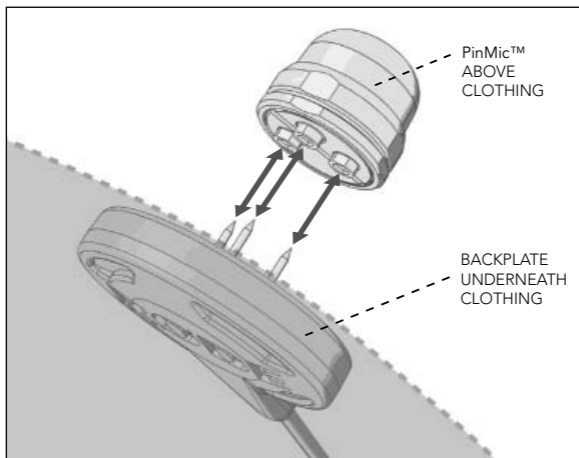


Bring the backplate up underneath the user's clothing, then press the pins through to the other side of the fabric

(The standard PinMic™'s backplate pins are able to comfortably pin through clothing up to approximately 1.5mm thick (0.006 ~ 0.14"). The heavy duty model is recommended for fabric from around 1.5mm up to 3.5mm (0.006 ~ 0.14") thick.)

# FITTING YOUR PINMIC™

Once the pins are exposed, simply match the receptacles on the PinMic™ to the pins on the backplate and press on. After the 'click', the PinMic™ will be securely fastened. There is no need to push the microphone down further.

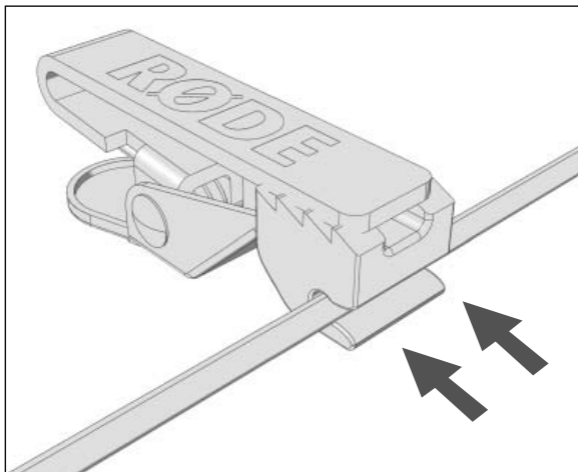


Match the backplate pins to the PinMic™ receptacles

# FITTING YOUR PINMIC™

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To prevent tangling, you may utilise the provided cable management clip. Clip the cable into the groove on the lapel clip, then loop through as many times as necessary and attach to clothing.

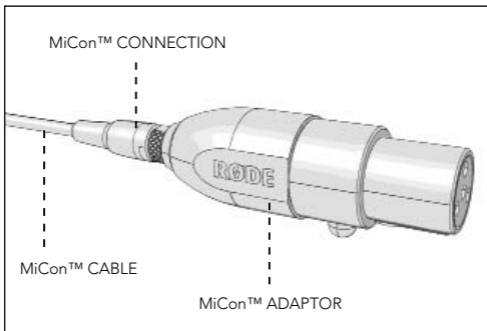


Clip the cable into the groove on your lapel clip

# FITTING YOUR PINMIC™

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To connect your PinMic™ to your wireless system, securely fasten the corresponding adaptor to the end of your MiCon™ cable.



RØDE MiCon™ cable and adaptor

The PinMic™'s connections have been designed using the RØDE MiCon™ connector system, which provides seamless integration with a wide range of wireless systems, while maintaining the mic's discreet appearance. (MiCon™ adaptors sold separately – see [rodemic.com/pinmic](http://rodemic.com/pinmic) for a full list of compatibility.)

Plug the adaptor into your wireless system and you're ready to go.

# INCLUDED ACCESSORIES

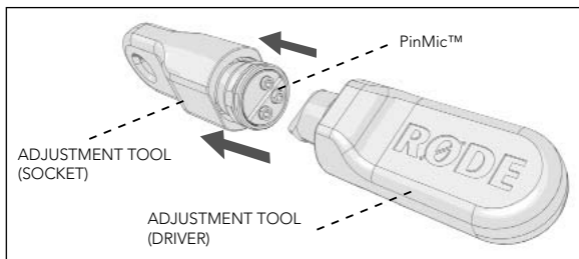
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## SUPPLEMENTARY MESH HEAD

For instances in which the PinMic™ user is wearing a light-coloured garment, RØDE have provided a supplementary silver mesh head. This will maintain the PinMic™'s subtle appearance on the clothing.

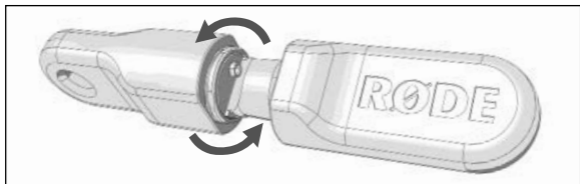
To switch from your pre-fitted black mesh head to the silver, first disassemble your PinMic™ with your RØDE adjustment tool. (This is best done over a desk or work surface to ensure no parts are misplaced). Pull apart the two sections of the adjustment tool to reveal the driver and socket sections.

Place your PinMic™ in the socket hole, mesh down, so that the bottom of the microphone is visible. Match the flat edges of the mesh head to the flat edges of the socket hole to insert correctly. Then use the groove across the bottom of the mic to unscrew the mic capsule from the mesh head.



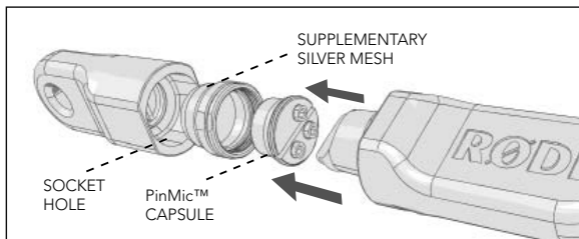
Place microphone in the adjustment tool socket, mesh down

# INCLUDED ACCESSORIES



Use the groove across the bottom of the mic to unscrew

Once the microphone capsule is loose, remove it from the mesh. Remove the black mesh head from the socket, using the groove on the mesh ring as grip. Next, insert the silver mesh head into the socket. Place the microphone capsule into the silver mesh and tighten on securely with the driver.



Place the silver mesh in the socket, then the mic capsule, then tighten

**Note:** Please do not attempt to screw the mesh head onto the PinMic™ by tightening while the microphone is attached to the backplate. This may cause damage to the backplate pins. Always remove your microphone from clothing and backplate before changing mesh heads.

# INCLUDED ACCESSORIES

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## CUSTOMISING THE SILVER MESH HEAD

The supplementary silver mesh head can be custom painted to match the colour of the user's clothing, providing an even higher level of microphone camouflage.

To colour your mesh, first use a pair of tweezers to remove the inner foam (pop filter) from just under the mesh head. (This foam reduces wind noise and moisture reaching the microphone capsule, and must not be exposed to paint.)

Once the foam is removed, use a spray paint in the colour of your choice to paint the mesh. Spray from a distance, applying a thin, even coat over the surface.

Allow the mesh to dry completely before its next usage. Once dry, return the inner foam to its place inside the mesh. Follow the instructions on pages 14-15 to switch the mesh heads on the PinMic™.

Always keep your unused mesh head in the provided storage case for complete protection.

**Note:** When colouring, please be cautious not to block any of the holes in the mesh head. This may reduce the acoustic transparency of the PinMic™, resulting in compromised audio quality.

To check that the mesh head is clear, hold it up against a light and ensure the light filters through the holes.



# INCLUDED ACCESSORIES

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## MINI-FURRY

For increased wind protection, a mini-furry windshield is provided with the PinMic™. The windshield is ideal for situations such as outdoor performances, where wind noise may distort the audio quality of the mic.

To fit, simply press on the mini-furry straight over the PinMic™ until it is secured by the groove on the mesh head.



PinMic™ with mini-furry

# STORAGE & CARE

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When not in use, always keep your PinMic™ in the storage case provided. Close and snap the storage case for complete protection.

Inside the case, you will find a sachet of moisture absorbent crystals. Please retain these crystals and store with the PinMic™ to keep the microphone in ideal condition.

Eventually this pack of crystals will need to be dried. This is indicated by the crystals turning pink in colour. They can easily be re-used by placing them in an oven at 100-150 degrees Celsius for approximately ten minutes. The crystals will operate effectively again once they have turned blue.

In some cases, such as when there are multiple users of the PinMic™, you may wish to sanitise the backplate and cable.

To do this, use the provided Sanitary Cleansing Wipes to wipe down the PinMic™ surface. You may wish to detach the microphone from the backplate and cable for easier access.

Please be mindful when cleaning the PinMic™ not to let any dust or moisture into the microphone capsule.

# SUPPORT

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If you experience any problem, or have questions regarding your microphone, first contact the dealer who sold it to you. We have an extensive dealer network to assist you.

If you have difficulty getting the advice or assistance you require from the dealer, do not hesitate to contact us directly via the details below.



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## TECHNICAL SUPPORT

For information and technical support please visit  
[www.rodemic.com/support](http://www.rodemic.com/support)

