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# MV7

## Podcast Microphone

The Shure Hybrid USB/XLR cardioid microphone, MV7, user guide.  
Version: 1.1 (2020-K)

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# MV7

## Podcast Microphone

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### General Description

The Shure MV7 is a professional-quality USB dynamic microphone, ideal for close mic applications that require vocal intelligibility with a balanced tone. The attractive and durable all-metal design features an adjustable yoke that can be mounted onto a variety of microphone stands for flexible placement options. A touch panel user interface provides control of microphone gain, headphone level, monitor mix blend and muting.

### Features

#### Convenient Plug-and-Play Operation

Compatible with Windows and Mac computers. Also compatible with iOS and Android devices with applicable cables. (Cables not provided.)

**Note:** See <https://www.shure.com/MOTIVcompatibility> for information on recommended Android devices.

#### Voice Isolation Technology

Highly directional cardioid pattern isolates your voice and removes unwanted background noise

#### Durable, Versatile Design

- Hybrid USB/cardioid microphone can be used for digital or analog recording
- Adjust settings with the intuitive touch panel interface
- Rugged, all-metal construction and excellent cartridge protection for outstanding reliability

#### Flexible Sound Control with the ShurePlus MOTIV™ Desktop Application

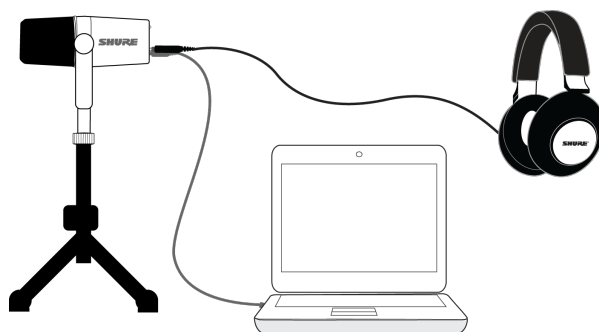
The MOTIV Desktop Application offers control over microphone settings and includes the following additional features:

- **Auto Level Mode** Automatically adjusts microphone settings to take the guesswork out of gain and compression settings
- **Custom user presets**
- **Switchable EQ filters** High-pass filter and voice boost emphasis (presence boost) options in Manual mode

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### Connect Your MV7

1. Plug the included Micro-B USB cable into your MV7.
2. Connect the other end of the Micro-B USB cable to your laptop.
3. Plug your headphones into the monitor output.



## Quick Setup

1. **Use the correct cable to plug the microphone into your computer.**

The LEDs on the MV7 will pulse when the connection is made.

2. **Download the app at <https://www.shure.com/MOTIVdesktop>.**

Your computer may request permission to use the external device the first time the app is opened.

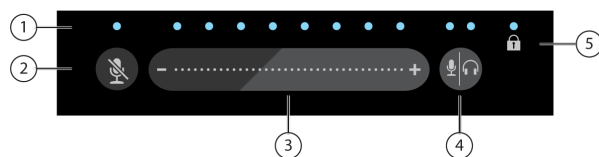
3. **Select your microphone from the drop down menu.**

Access customized controls for your MOTIV microphone.

4. **Check audio levels and adjust microphone settings.**

Manually adjust microphone gain or select Auto Level Mode for worry free audio setup. See the "Advanced Mic Settings" topic for information on advanced features.

## Touch Panel Interface



Touch Panel

- ① **LED bar** Displays microphone and headphone level. The LED color indicates which level is being displayed or adjusted.

- **Green:** Microphone level
- **Orange:** Headphone level
- **Green/Orange:** Monitor Mix blend level

- ② **Mute Button** Press to mute and unmute the microphone.

- ③ **Volume Control Slider** Adjust microphone or headphone level by swiping your finger several times up and down the control surface.

④ **Monitor Toggle** Press the mode/headphone button to toggle between microphone (green) and headphone (orange) volume controls. Long press to activate monitor mix controls (both green and orange). Another long press to return to separate microphone and headphone volume controls.

⑤ **Lock Indicator** Displays whether the settings lock is on or off. Settings lock prevents changes to microphone settings from accidental touches. When Lock mode is on, the microphone settings screen is grayed out on the desktop application.

## Controls

**Adjust monitor mix:** Press and hold Monitor Toggle for 2 seconds to access monitor mix controls. Swipe left to hear more mic audio (green) or swipe right to hear more playback audio (orange). Press and hold Monitor Toggle to return to separate microphone and headphone volume controls.

**Settings lock:** Press and hold both Mute and Monitor Toggle for 2 seconds to lock and unlock settings.

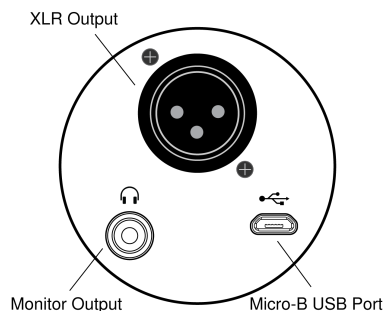
**Exit Auto Level Mode:** Press and hold Mute for 2 seconds

**Note:** Auto Level Mode can only be enabled through the MOTIV Desktop Application.

## The MV7 Microphone

The MV7 features a dynamic capsule with a cardioid pattern, which uses Voice Isolation Technology to pick up sound directly in front of the microphone.

## MV7 Outputs



- **Passive XLR output:** Connect to XLR mixers and interfaces.

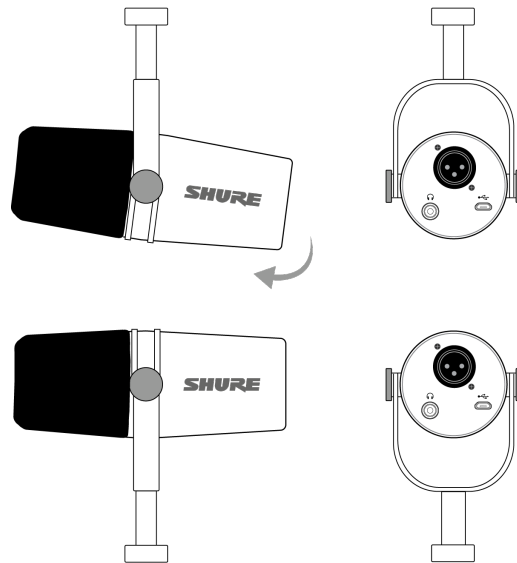
*Note: XLR audio is not affected by software settings.*

- **3.5mm monitor output:** Connect to headphones and earphones
- **Micro-B USB:** Use the included USB-A and USB-C cable to connect to your computer

## Mounting Instructions

The MV7 microphone comes equipped with a 5/8"-27 threaded mount, the thread size most commonly found on microphone stands. This mount can be used with a microphone stand or hung from a boom. Some stands may require an adapter, which is not provided.

**Note:** Be very careful not to unloosen the screws all the way.



*To easily flip the microphone orientation, loosen the screws and rotate 180 degrees.*

## Windscreen

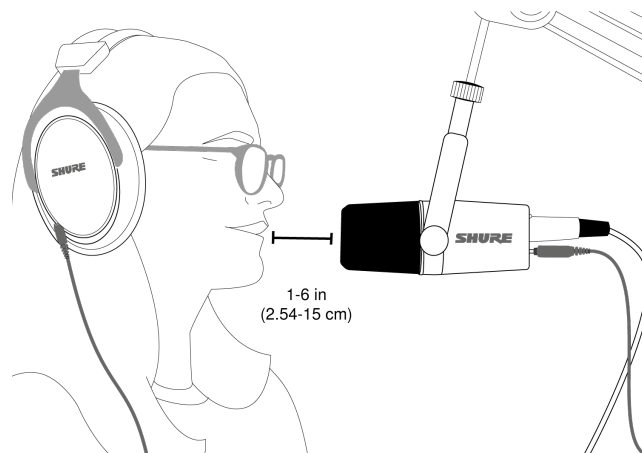
The windscreen offers maximum protection from plosives and creates a warmer, more intimate sound for speech applications, like podcasting and gaming.

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## Auto Level Mode

Use the following suggestions as a great starting point for your most common MV7 needs. Keep in mind that there are many effective ways to mic a voice. The closer you can get to the microphone, the better, but Auto Level Mode really helps to get you sounding your best. Experiment to find which mic placement works best for you.

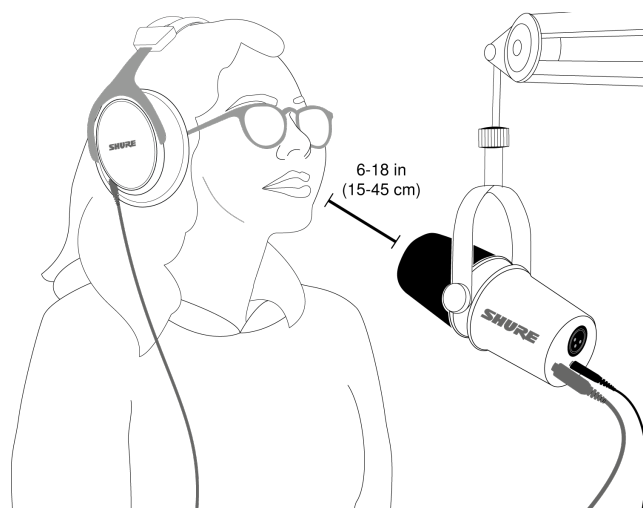
## Near



For podcast and voice recording applications. Position the MV7 in front of and as close to your face as possible. Speak directly into the mic, 1-6 inches (2.54 - 15 cm) away for a more intimate voice sound with maximum rejection of off-axis sounds. Speak-

ing closer to the microphone results in more bass response, similar to voices on a radio broadcast. Make additional gain adjustments if necessary.

## Far



Ideal when the sound source is further from the microphone, like in gaming when the person needs to be closer to the screen or gaming console. Aim the microphone directly at the sound source. Place the microphone 6 to 18 inches (15 to 45 cm) away from the sound source. Make additional gain adjustments if necessary.

**Tip:** Because the MV7 is highly directional, ensure that the microphone is directly pointed towards the source. If possible, experiment with mic placement to find where it sounds best. Make additional gain adjustments as necessary.

## Additional Tips

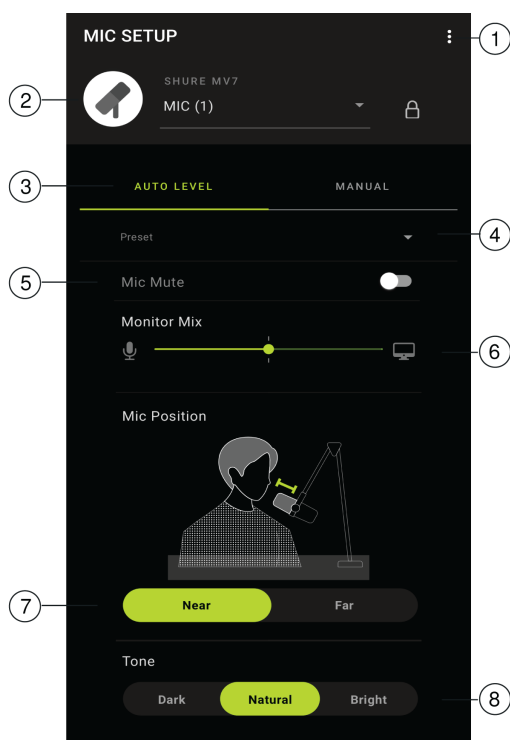
Shure offers educational articles and publications on recording techniques for a variety of instruments and applications. Visit [Shure Educational Articles](#) for more information.

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## The Shure MOTIV Desktop App

Use the Shure MOTIV desktop app to quickly adjust microphone settings. The device stores the most recently used settings for quick setup.

## Mic Setup: Auto Level



① **Settings** Click the three dots to access MOTIV software information, manage presets, application preferences and check for firmware updates.

② **Mic Selection/Settings Lock** Use the drop-down menu to access settings for your microphone. Click the lock to lock and unlock selected settings.

③ **Auto Level Mode / Manual Mode** AUTO LEVEL MODE allows the app to select best choices for your audio needs. Or select MANUAL MODE for full control over the microphone settings.

④ **Custom Presets** Use the drop-down to create your own custom presets.

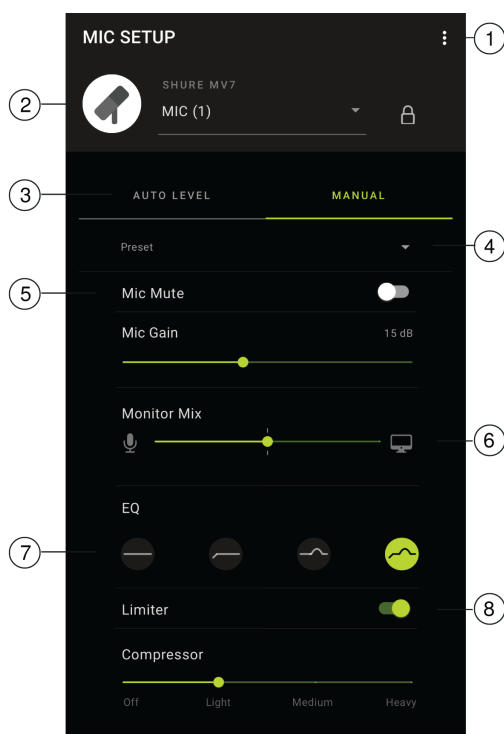
⑤ **Mic Mute** Use the toggle to mute and unmute your microphone.

⑥ **Monitor Mix slider** Move the slider to adjust the levels of mic and playback sound sources. See "Monitor Mix Blend" for more information on monitoring.

⑦ **Mic Position** Select the distance, Near or Far, from the sound source to the microphone.

⑧ **Tone** Fine tune your audio by selecting Dark, Natural or Bright tone. Tone controls a variety of settings to quickly dial in your sound.

## Mic Setup: Manual



① **Settings** Click the three dots to access MOTIV software information, manage presets, application preferences and check for firmware updates.

② **Mic Selection/Settings Lock** Use the drop-down menu to access settings for your microphone. Click the lock to lock and unlock selected settings.

③ **Auto Level Mode / Manual Mode** AUTO LEVEL MODE allows the app to select best choices for your audio needs. Or select MANUAL MODE for full control over the microphone settings.

④ **Custom Presets** Use the drop-down to create your own custom presets.

⑤ **Mic Mute / Mic Gain** Use the toggle to mute and unmute your microphone. Use the slider to control microphone gain.

**Note:** Some programs can control microphone gain while in Manual mode. We recommend locking your mic settings once you have it set the way you'd like.

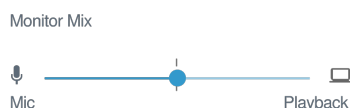
⑥ **Monitor Mix slider** Move the slider to adjust the levels of mic and playback sound sources. See "Monitor Mix Blend" for more information on monitoring.

⑦ **EQ** Use the equalizer to add a high-pass filter, presence or both. Tap Flat to return to an unchanged equalization state.

⑧ **Limiter and Compressor settings** Fine tune your audio with limiter and compressor controls. See "Advanced Mic Settings" for more information.

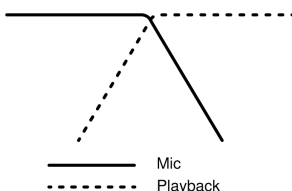
**Note:** Be aware that manual settings will be reset if you switch to Auto Level mode and switch back to manual mode.

## Monitor Mix Blend







Use the monitor mix slider to adjust how much of each source you can hear. For best results, start monitoring at the midpoint and adjust.

- Move the slider towards the microphone icon (Mic) to hear more of the audio going into the mic. Like when you're singing over a recorded guitar track and want to clearly hear your voice.
- Move the slider towards the device icon (Playback) to hear more of the track playing back. When you're recording a harmony to your original vocal track and want to clearly hear the original performance.



## EQ Modes

Use the equalizer to boost or cut bands of frequencies to improve sound clarity. Tap Flat to return to an unchanged equalisation state.

Mode	Characteristics
 <b>Flat</b>	A completely unprocessed signal (no equalization settings used).
 <b>High-pass</b>	High-pass filter to reduce proximity effect.
 <b>Presence boost</b>	Equalization that emphasizes clarity and fullness.
 <b>High-pass presence boost</b>	Combination high-pass filter and presence boost to improve definition and focus on clarity

## Advanced Mic Settings

Fine-tune your sound with limiter, compression, and equalizer settings.

### Limiter

Toggle the limiter on or off to prevent distortion from volume peaks in your recording.

## Compressor

Choose no compression, or select light, medium or heavy compression to control volume when your sound source is dynamic. Quiet signals are boosted and loud signals are lowered, resulting in a denser, louder sound.

## MV7 Tips

### Control your Levels

To ensure consistent volume levels, keep the microphone as close to your face as possible.

### Use Lock Mode to Lock In Your Sound

When you've tested your audio and have found the settings that sound great, press and hold both Mute and Monitor Toggle for 2 seconds to lock and prevent accidental adjustment and ensure that your audio remains consistent.

### Monitor Your Sound

To hear your audio, plug headphones into the headphone output on your MOTIV device.

## Troubleshooting

Issue	Solution
<b>Microphone is plugged in, but not detected.</b>	Unplug and reconnect the cable so that the app recognizes the microphone. You'll know that the connection is made when you see the desktop application display the correct microphone settings.
<b>You hear no audio even though the desktop application is displaying the correct microphone.</b>	Check the Monitor Mix blend. Move the Monitor Mix slider to the center to hear the audio going into the mic and the audio being played back at the same time.
<b>Audio is distorted (Auto Level Mode)</b>	Select Auto Level Mode to allow the software to control audio settings. Near for up-close applications (1-6 in. / 2.54-15 cm) and Far for a distance of 6-18 inches. (15-45 cm)
<b>Audio is distorted (Manual Mode)</b>	Audio distortion usually comes from overloading the microphone which causes clipping. Lower your mic gain for the best sound recording.
<b>Headphone LED flashes. Audio sounds higher or lower pitch than normal.</b>	Your microphone and computer have a sample rate mismatch. To adjust your computer sample rate settings, go to the <a href="#">Shure FAQ topic for information on correcting sample rate mismatch</a> .  <b>Note:</b> Windows update 10 v2004 (April 2020) solves this problem.
<b>Microphone has become detached from the yoke.</b>	See the MV7 Yoke Assembly topic for step by step instructions for re-assembling your yoke and assorted washers. Correct washer assembly is crucial to ensure that your microphone is securely in place.
<b>Miscellaneous issues</b>	It may be useful to reset the app to restore functionality. Perform a hard reset by unplugging and re-plugging the microphone.

Issue	Solution
<b>General troubleshooting</b>	Quit and re-start the app. Reboot the computer. Check for firmware update. Tap the three dots in the top right corner and select About MOTIV > Check for Update

**Note:** Contact Shure Service and Repair if you continue to experience any issues.

## Firmware Update

Take advantage of additional features and design enhancements by updating the firmware on your MOTIV Desktop Application when prompted. A notification will appear when a firmware update is available. You have the option to download the update immediately or at a later time.

**Tip:** For best results, before updating the application, make sure that the microphone is connected to your computer. Do not disconnect until the update is complete.

To access firmware update at a later time, tap the three dots > About > Check for Update. Tap the caret icon and if the available firmware package is newer than the current version, tap Send to device. Contact Shure Service and Repair if you experience any issues.

## Keep equipment connected during updates

Keep the MOTIV device connected to your mobile device when updating to ensure that there are no update issues.

## System Requirements

### System Requirements and Compatibility: Mac

- MacOS 10.13 to 10.15
- 64 bit
- Minimum 2 GB of RAM
- Minimum 500 MB of hard disk space

### System Requirements and Compatibility: Windows

- Windows 10
- 64 bit
- Minimum 2 GB of RAM
- Minimum 500 MB of hard disk space

### System Requirements and Compatibility: iOS

- **iOS:** iOS 12 and higher
- **iPhone:** iPhone 6 and higher
- **iPod Touch:** 6th gen

**Note:** iPad Pro (USB-C) is not supported.

## System Requirements and Compatibility: Android

Will work with any Android device that has:

- Android Oreo 8.0 and higher
- USB Host Power Requirement of  $\geq 100$  mA
- USB Audio Class 1.1 support and higher

Android is a trademark of Google Inc.

**Note:** See <https://www.shure.com/MOTIVcompatibility> for information on supportive Android devices.

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## Specifications

### MFi Certified

Yes

### DSP Modes (Presets)

Near/Far, Dark/Natural/Bright

### Transducer Type

Dynamic (moving coil)

### Polar Pattern

Unidirectional (Cardioid)

### Output Impedance

314  $\Omega$

### Frequency Response

20 Hz to 20,000 Hz

### Adjustable Gain Range

0 to +36 dB

### Sensitivity

*(@ 1 kHz, open circuit voltage)*

-55 dBV/Pa <sup>[1]</sup> (1.78 mV), -47 dBFS/Pa <sup>[1]</sup> <sup>[2]</sup>

### Maximum SPL, Digital Output

132 dB SPL <sup>[2]</sup>

### Headphone Output

3.5 mm (1/8")

### Polarity

Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

**Mute Switch Attenuation**

Yes

**Limiter**

Yes

**Compressor**

Yes

**Power Requirements**

Powered through USB or Lightning connector

**Housing**

All metal construction

**Mounting Type**

5/8-27 thread mount

**Net Weight**

0.55 kg (1.21 lbs)

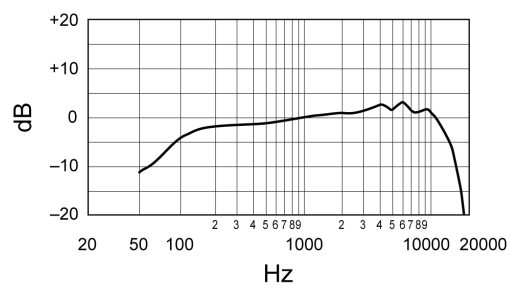
<sup>[1]</sup>1 Pa=94

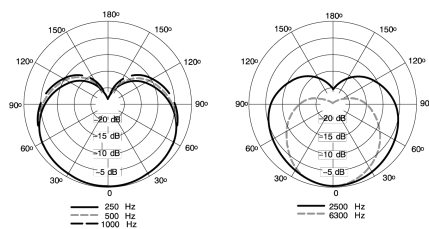
dB SPL

<sup>[2]</sup>

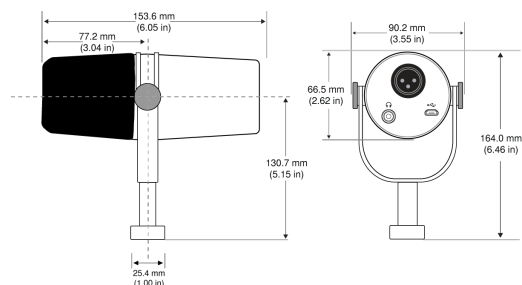
At Minimum Gain, Flat Mode

Bit Depth	Sampling Rate
24	48 kHz
24	44.1 kHz
16	48 kHz
16	44.1 kHz

**Typical Frequency Response**



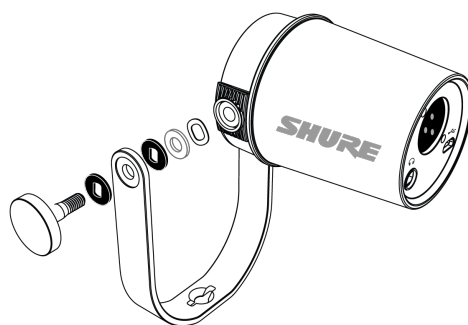
Typical Polar Pattern



Overall Dimensions

## MV7 Yoke Assembly

The MV7 yoke allows a podcaster to be flexible with mic placement. Loosen the yoke knobs and you can adjust the microphone in a variety of angles. If the microphone becomes detached from the yoke, these are the steps to put it together in the correct order to ensure that your microphone is secure. Each side uses one thin gray spring washer, one shiny silver brass washer, two black plastic washers and the yoke and threaded yoke knob.



1. Start with the threaded knob flat side down on your tabletop.

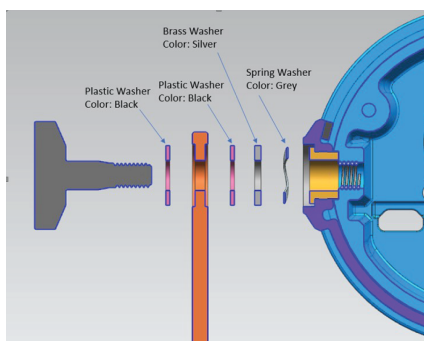


2. Stack the washers on the threaded knob.
  - Place a black plastic washer on the knob.
  - Place one side of the yoke on next.
  - Then put the second black plastic washer on.
  - Place the flat silver washer and then the thin spring washer on the threaded knob.

- Using your finger to hold the screw assembly in place, slide the MV7 onto the threaded screw and turn the knob to keep washers in place.

**Note:** Be sure to keep this side on but loose so that you have room to easily move the yoke and assemble the washers on the opposite side.

- On the opposite yoke arm, place the washers into the side of the MV7 in reverse order. Thin spring washer > Flat silver washer > Black plastic washer > Yoke arm
- The yoke arm needs to be placed directly onto the stack of washers. To ensure that the washers are aligned, put a pen through the yoke and washers to make sure that everything is properly centered. Leave pen in place.
- Place the second black plastic washer onto the remaining threaded knob.
- Remove the pen. Insert the threaded knob and black plastic washer into the stacked washers and tighten both sides to ensure that your microphone is stable.



## Accessories

### Furnished Accessories

10 foot Micro-B to USB-A cable	95A45110
10 foot Micro-B to USB-C cable	95B38076

### Replacement Parts

Black Windscreen	AMV7-K-WS
Silver Windscreen	AMV7-S-WS

### Optional Accessories

1 m Lightning cable	AMV-LTG
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# Certifications

## Information to the user

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**Industry Canada ICES-003 Compliance Label:** CAN ICES-3 (B)/NMB-3(B)

This microphone for use with any microphone stand with a 5/8" threaded adapter.

**Note:** Testing is based on the use of supplied and recommended cable types. The use of other than shielded (screened) cable types may degrade EMC performance.

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

The CE Declaration of Conformity can be obtained from: [www.shure.com/europe/compliance](http://www.shure.com/europe/compliance)

Authorized European representative:

Shure Europe GmbH

Headquarters Europe, Middle East & Africa

Department: EMEA Approval

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Made for iPhone Xs Max, iPhone Xs, iPhone XR, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPad Pro (10.5-inch), iPad Pro (12.9-inch) 2nd generation, iPad Pro (12.9-inch) 1st generation, iPad Pro (9.7-inch), iPad mini 4, iPad mini 3, iPad mini 2, iPad Air 2, iPad Air, iPad (6th generation), iPad (5th generation), iPad (4th generation), iPod touch.

iPad, iPhone, iPod, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. iPad Air, iPad mini, and Lightning are trademarks of Apple Inc. The trademark "iPhone" is used in Japan with a license from Aiphone K.K.

## Android Compatibility

This equipment is compatible with Android devices that support USB Audio Class 2.0 and USB-C connectivity. Not all Android devices are compatible. Android is a trademark of Google Inc.

