ROBOMIC

User Manual Version 2

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Assembly

RoboMic comes with the Telescope, Battery and Microphone Capsules disassembled for shipping. You will need to install these for operation.

1. Install the Telescope

a. Remove the black Cover and set it aside. Remove the base, gripping by the motor, and telescope from the case and place them on a table.

b. Take the telescope and insert it into the base, feeding any loose tubing into the telescope. Ensure the telescope seats into the bottom of the clamp. Rotate the telescope in the direction for your use.

c. Take the screwdriver, using the large socket driver (remove the large flat head and Philips adapter) and tighten the (2) clamps with just enough force to feel them tighten around the telescope. There is no need to over-tighten the clamps.

2. Install the Battery

a. Take a battery from the case and slide it into the pocket on the left side of the Base.

b. Plug in the DC power cable on the right side of the battery.

c. Power on the battery, and select 25V-DC (One long press to turn on the battery, followed by a double press to enter the menu, then 3 single presses to turn on the DC output)

d. Once powered, you will see a flashing green LED on the motor illuminate, followed by the menu screen powering on.

3. Install the Mic Capsules

a. Remove the (2) mic capsules from their case and remove them from their windscreens

b. Take note of the 2 different polar patterns illustrated on the mic capsules. CCM-4 (Cardioid) and CCM-41 (Hyper-Cardiod). Normally, You'll want to put the Cardioid (CCM-4) on the top connection, and the Hyper-Cardiod (CCM-41) on the bottom connection. This allows for tight pickup for a single presenter, and a wider pickup for multiple presenters.

c. Screw each capsule onto its connector until you feel resistance. Once the capsule catches its threads it will be fully seated with 3 revolutions.

d. Put the windscreens back on the microphones

4. Wire the Microphones

The Microphones can be sent wired or wirelessly using the appropriate adapter plates

Wired: Install the hardline plate (TA4M to XLR-M) and plug the microphones directly into the adapter plate, the 48V supply is not needed, 48V can be supplied via the XLRs

Wireless: Install the Tx Shelf adapter and wire the microphones thru the onboard 48V supply, first running them into the input of the supply, then out to your wireless transmitters using the provided brown and red TA4 jumper cables.

Control Connection

Control of RoboMic can be done thru any web browser over 2.4Ghz WiFi, or thru a hard wired LAN connection. If using WiFi first connect directly to the built-in WiFi network on the microphone base, once connected it's recommended to connect RoboMic to a larger WiFi network.

1. WiFi Connect Direct to RoboMic

a. Using the PC's built in WiFi, select SSID: "RoboMic Setup" from the available WiFi networks.

b. The RoboMic Setup password is: Robo1234

c. Once connected, RoboMic will DHCP serve the computer an address in the 192.168.20.xxx range. There is no need to statically assign the computer address.

d. Open Chrome web browser and type: 192.168.20.1 into the URL field.

e. You will be prompted for a username and password:
Username: admin
Password: Robo1234

f. The RoboMic GUI will now load!

2. Connect RoboMic to a WiFi Network

a. In the RoboMic Web GUI Click "Settings & Wifi"

b. Click "Scan for Wifi Networks". This will show a list of available WiFi Networks to join. It is recommended to use a network with full coverage of the entire venue space. If one is not available, you can deploy a purpose built wifi network with 1 router, set on the side of the stage to cover the stage and the operation area.

c. Enter the password for your desired network, and click "Save WiFi Credentials & Connect"

d. RoboMic will connect to the selected network and receive a new IP address. The new address will display on the home screen of the Base LCD automatically. This process takes 10-20 seconds.

e. Connect your computer to your selected WiFi network, type the new address into the URL field, and login with the same credentials (admin, Robo1234)

f. The GUI will load again once connected.

3. Connect via LAN

a. Connect an RJ45 ethernet cable to the LAN port located at the back of the unit.

b. Connect the other end directly to your control computer or thru a switch.

c. The DCHP server will assign your control computer an address in the 192.168.20.xxx range

d. Type the IP of RoboMic into your web browser.

Operation

Operation of RoboMic can be done in a combination of 3 ways: Base, GUI and Shuttle. The Base menu can be used off-stage to test functionality, the GUI can be used for recalling presets, and the Shuttle for real-time operation. Before control is handed over to these peripherals, RoboMic must first be Homed so that its physical height aligns with its control height.

1. Homing

a. From the Base or GUI navigate to “Go Home”

b. RoboMic will go thru it’s homing sequence; moving up, then down until the white line on the tube is detected by the sensor.

c. Once homing is done the GUI will show “Completed!” User operation of the mic is now unlocked and free to use.

Warning! If RoboMic is powered off, Homing will need to be redone to unlock control.

Alternatively, if the battery needs to be changed quickly, you can simply lower the mic fully to 36” then replace the battery. If the mic remains at it’s lowest position then it will be “home” when It’s powered back on.

2. Operation

a. Connect the Shuttle wheel to a USB port on the computer.

b. RoboMic relies on the Chrome browser being active to send commands. So that this does not become interrupted, the key combination of (Ctrl+Win+T) will lock Chrome into being active. This can be verified with a blue bar along the bottom of the Chrome browser.

c. From the GUI, (5) Hot Keys can be set that correspond to the (5) buttons on the outside of the Shuttle wheel. These can be heights that need to be recalled frequently.

d. In addition, there are (10) Snapshot heights that can be set for specific talent. These can be named and sorted accordingly.

e. The Shuttle has an inside and outside wheel. The inside is for fine (~1/8”) adjustments, and the outside for larger adjustments. The outside wheel’s speed control is ramped to allow for fine and course adjustment.

f. Have a great show!

Troubleshooting

Technical Support

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