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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. When the mains plug or appliance coupler is used as the disconnect device, it shall remain readily operable.
16. Please keep the unit in a good ventilation environment.
17. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
18. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
19. Warning - battery pack shall not be exposed to excessive heat such as sunshine, fire or the like.
SECTION 1:

OVERVIEW

SYSTEM COMPONENTS AND UNPACKING

The standard configuration of the Multimike will contain:

Multimike and USB Power Supply

Choice of Flexmike and/or Sharemike Microphone

PLEASE NOTE: The Multimike and any wireless components (microphones, Media Connector) are registered together at the factory and are labeled as such with ID numbers. Please keep all components together as a system. Moving them from one system to another will result in the need to re-register them to function.

Additional system labels are attached to the Quick Start Guide should you add components, or if one of your original components should need to be replaced.
# 1. Overview

## Standard Components, U.S. and Canada

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MM</td>
<td>Multimike wireless audio base station</td>
</tr>
<tr>
<td>FMCC</td>
<td>Flexmike cradle charger</td>
</tr>
<tr>
<td>5V-1.0</td>
<td>5V power supply for FMCC</td>
</tr>
<tr>
<td>USB1-NA</td>
<td>Power adaptor for Multimike</td>
</tr>
<tr>
<td>USB-MCB</td>
<td>USB Type A-Micro B power cable for Multimike</td>
</tr>
<tr>
<td>FM</td>
<td>Flexmike pendant-style audio transceiver w/battery pack</td>
</tr>
<tr>
<td>NH2.4V</td>
<td>AA NiMH rechargeable battery pack for Flexmike</td>
</tr>
<tr>
<td>FL</td>
<td>Flexmike lavaliere cord</td>
</tr>
<tr>
<td>SM</td>
<td>Sharemike handheld audio transceiver w/battery pack</td>
</tr>
<tr>
<td>NH2APK</td>
<td>AA NiMH rechargeable battery pack for Sharemike</td>
</tr>
<tr>
<td>USBDC</td>
<td>Charging cable for Sharemike</td>
</tr>
</tbody>
</table>

## Standard Components, outside U.S. and Canada

<table>
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<tr>
<th>Component</th>
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<tbody>
<tr>
<td>MM-1881</td>
<td>Multimike wireless audio base station</td>
</tr>
<tr>
<td>FMCC</td>
<td>Flexmike cradle charger</td>
</tr>
<tr>
<td>5V-1.0-INT</td>
<td>5V power supply for FMCC</td>
</tr>
<tr>
<td>USB3DC</td>
<td>Power adaptor for Multimike</td>
</tr>
<tr>
<td>USB-MCB</td>
<td>USB Type A-Micro B power cable for Multimike</td>
</tr>
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<tr>
<td>EMA</td>
<td>Earset microphone with TRRS connector for Flexmike</td>
</tr>
<tr>
<td>LMA</td>
<td>Lapel microphone with TRRS connector for Flexmike</td>
</tr>
<tr>
<td>MCA</td>
<td>Media Connector with Access Technology</td>
</tr>
<tr>
<td>USB1-NA</td>
<td>Power adaptor for MCA power supply</td>
</tr>
<tr>
<td>USB-MCB</td>
<td>USB Type A-Micro B power cable for Media Connector</td>
</tr>
<tr>
<td>USB3DC</td>
<td>Power adaptor for Sharemike-only systems</td>
</tr>
<tr>
<td>5V-1.0</td>
<td>5V power supply for USB3DC</td>
</tr>
<tr>
<td>MTS</td>
<td>Sharemike mic stand</td>
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<tr>
<td>USB-MCB</td>
<td>USB Type A-Micro B power cable for Media Connector</td>
</tr>
<tr>
<td>USB3DC</td>
<td>Power adaptor for Sharemike-only systems and International power adaptor for MCA, with power supply</td>
</tr>
<tr>
<td>5V-1.0-INT</td>
<td>5V power supply, for USB3DC</td>
</tr>
<tr>
<td>MTS</td>
<td>Sharemike mic stand</td>
</tr>
</tbody>
</table>
OPTIONAL SYSTEM COMPONENTS

- Sharemike Mic Stand
- Earset Microphone
- Media Connector
- Lapel Microphone
1. **POWER LIGHT**: This light will turn blue when power is on.

2. **POWER BUTTON**: Press and hold this push button to turn the system power on or off.

3. **MICROPHONE VOLUME CONTROL**: Controls the volume level of the microphones.

4. **AUDIO IN VOLUME CONTROL**: Controls the volume level of the audio source connected to the audio input on back of the Multimike.

5. **TONE CONTROL**: Adjusts the audio tone adding more bass or treble for a more rich or more crisp tone.

6. **MIC 1**: Microphone link and registration indicators.
   a. Solid green indicates an audio link has been established.
   b. Flashing amber indicates registration is in process.

   **MIC 2**: *Multimike systems do not use MIC 2 status lights.*

7. **SYSTEM ID LABEL**: On bottom of unit (not shown) to identify it with registered components.
1. **REGISTRATION:** Press this button if there is a new component, such as a microphone, to be registered.

2. **USB POWER INPUT:** Plug the micro USB end of the power cable into this USB port.

3. **AUDIO INPUT JACK:** 3.5mm stereo connector for connecting classroom audio sources to be played through audio system.

4. **BALANCED AUDIO OUTPUT:** This output sends the audio from Multimike to a balanced input on an amplifier or mixer. (Recommended for longer cable runs connected to a balanced input).

5. **AUDIO OUTPUT:** This unbalanced output sends the audio from Multimike to an input on an amplifier (Recommended for most applications).

6. **MIC/LINE LEVEL SWITCH:** Changes the audio output level from low (MIC level) to high (LINE level). Desired position depends on the input level of the amplifier.

7. **AUDIO OUT/DC IN:** This RJ-45 jack allows for a Cat 5 cable connection to a Lightspeed 885 amplifier. This connection sends audio to the 885 and receives DC power.
1. **POWER/MUTE SWITCH:** Press and hold to power on, press to mute, press and hold to power off.

2. **MIC 1 STATUS:** Lighted to indicate operation status for Flexmike
   - Blue: solid = normal operation; Blue: flashing = linking in progress
   - Red: solid = muted; Red: flashing = muted while linking in progress

3. **MIC 2 STATUS:** This light is not used when operating Flexmike with Multimike system.

4. **MICROPHONE CONNECTION:** Plug in the optional Lightspeed earset Microphone (EMA) or the Lightspeed lapel (LMA) here.

5. **CHARGING/LOW BATTERY INDICATOR:** Lights red when charging, green when fully charged. When in operation, it turns red to indicate low battery.

6. **MICROPHONE VOLUME UP/DOWN**

7. **AUDIO INPUT:** Plug a laptop, MP3 player or other audio device into this jack to wirelessly transmit the audio signal to be played through the system.

8. **LANYARD INTERFACE:** Insert the lanyard into this hook to wear the Flexmike.

9. **BATTERY DOOR:** Remove the battery door to replace the rechargeable battery pack.

10. **REGISTRATION:** (inside battery compartment - not shown) only used when adding or replacing Flexmike.

11. **SYSTEM ID LABEL**
FLEXMIKE CRADLE CHARGER

1. **DC POWER JACK**: Connect the 5V/1.0A DC power cord here.

2. **OPTIONAL USB CHARGING JACK**: Plug the charging cord for the optional Sharemike microphone here.
SECTION 2:

SET-UP & USE

1. DETERMINE SET-UP LOCATION

The Multimike is generally located near the amplifier. This minimizes the length of cable runs, reducing cost and labor and minimizing the possibility of unwanted EMI noise in the system. If cable runs longer than 12 feet are required, we recommend using the balanced audio output with balanced audio cable.

NOTE: Do not install the Multimike inside a fully enclosed metal cabinet or box. This will shield the box, cutting off all wireless transmission to and from the unit.
2A. CONNECT MULTIMIKE TO AMPLIFIER

STANDARD UNBALANCED CONNECTION

1. Plug one end of the included 3.5mm cable into the AUDIO OUTPUT connection on the Multimike.

2. Plug the other end into a microphone or audio input connection on an amplifier.

   NOTE: Depending on the type of input jack on the amplifier, an adapter or other audio cable with matching plug may be required (not included).

3. Set the MIC/LINE level switch in the appropriate position. Generally LINE level is used unless the amplifier input is specifically marked as a “Microphone Input.”

BALANCED CONNECTION FOR LONGER CABLE RUNS

In the event the Multimike must be located more than 12 feet away from the amplifier, it is recommended to use the balanced audio output on the Multimike. To ensure a fully balanced connection, there must be a true balanced input on the amplifier and a balanced audio cable must be used.

1. Connect the stripped wires into the marked openings on the euro-block connector:
   A. Insert the positive and negative signal wires to the marked terminals.
   B. Insert the shield to the ground terminal.

2. Secure the inserted wires by tightening the retaining screws.

3. Connect the other end of the cabling to a balanced input on the existing amplifier.
2B. CONNECT THE POWER SUPPLY

1. Plug the micro USB end of the power cable into the USB port on the back of the Multimike.
2. Plug the other end of the cable into the USB1 power adaptor.
3. The blue power light on the front of the Multimike will light.

2C. OPTIONAL CONNECTION TO LIGHTSPEED CAT 885 AMPLIFIER

If you are connecting into a new or existing Lightspeed Cat 885 amplifier, you can use Cat 5 cabling to integrate the two components (a 2’ cable is included with the system). This connection will send the audio from Multimike to the Cat 885 as well as provide power for the Multimike (no need for an additional AC power connection).

1. Plug one end of the Cat 5 cable into the AUDIO OUT/DC IN jack on the Multimike.
2. Plug the other end into the "SENSOR INPUT" jack on the 885 amplifier.
3. Plug in the Cat 885 into AC power (if it’s not already) and the blue power light on the front of the Multimike will light.
4. Multimike audio levels can be controlled with the Microphone Volume control on Multimike as well as the CH A control on the 885 amplifier.
4. AUDIO INTEGRATION

Various multimedia audio sources would typically be connected directly into the audio amplifier to then be played through the speakers. However, there is an additional 3.5mm audio input directly on the Multimike. That audio is passed through the Multimike and back out to the amplifier.

Audio Input

The Multimike has one AUDIO INPUT with volume control for connecting to various audio sources. Use a patch cable (not included) to connect a computer, iPod, iPad, or other audio source.
5. CHARGING THE FLEXMIKE

Before use, the Flexmike should be charged. It will take 8-9 hours for the Flexmike to obtain a full charge. A fully charged Flexmike will last for up to 8 hours of use. If microphones are used daily, they should be charged each night.

When properly inserted into a cradle charger, the Mic 1 light will glow blue and the red light on the Flexmike power button indicates the battery pack is charging. The power button light will glow green to indicate that charging is complete and a full charge has been reached.

Replacement NiMH battery packs may only be purchased through Lightspeed Technologies (part # NH2.4V). Do not attempt to charge with other battery packs. They can overheat and expand creating a significant hazard and damaging the microphone (this is not covered by warranty).

1. Plug power cord into the cradle charger and then plug the AC end into an electrical outlet.

2. Place the Flexmike into the cradle. (Figure 1) The LED on the Flexmike power button will glow red indicating charging has started. The Mic 1 will glow blue. (Figure 2)

3. Hang the Flexmike on the lanyard opposite the magnetic clasp.
6. OPERATING THE FLEXMIKE

Up to 5 microphones can be used with a Multimike. This can consist of 5 Flexmikes, 5 Sharemikes or a combination of Flexmikes and Sharemikes for a total of 5.

Once the Flexmike is charged, follow these steps to set it up for use.

1. Remove the Flexmike from the cradle charger and put it on by connecting the magnetic clasps behind your neck. Adjust the lanyard so that the Flexmike is at the top of the collarbone.

2. The Flexmike will automatically power on and mute when it is removed from the charger. This will automatically power on the Multimike as well.

3. The microphone volume on the Flexmike is set at the factory to the mid point.

4. While speaking in a normal voice, fine-tune the microphone volume on the front of the Multimike up or down. Proper volume level should be as follows:
   - Your voice should be clearly heard by another person on the other side of the room.
   - You should barely be able to hear your own voice.
   - There should not be any audio “feedback” or squealing outside of 2-3 feet (if there is, turn the volume down slightly).

REMEMBER: This equipment supplements the user’s voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.

5. Once initial volume level is set, walk around the room and listen for overall audio quality.

6. If further fine-tuning is required, you may need to adjust the Tone Control on the front of the Multimike.
7. USING FLEXMIKE AS WIRELESS AUDIO LINK

The Flexmike includes a 3.5mm audio input jack to connect to an audio source like a laptop or MP3 player. The Flexmike will transmit the audio signal to be played through the system.

If your system includes two Flexmikes, you can use one mic for instruction and the second mic to transmit audio through the system.

1. Plug your external audio equipment (for example, laptop), into the input on the Flexmike labeled “INPUT” using a 3.5mm patch cable (not included).
1. **POWER BUTTON**

2. **MIC 1 LIGHT:** This light indicates operation status for Sharemike
   - Blue: solid = normal operation; blinking = link in process
   - Red: solid = muted

3. **MIC 2 LIGHT:** This light indicates battery/charging status for Sharemike
   - Red: flashing = low battery
   - Red: solid = charging
   - Green: solid = charging complete

4. **AUDIO INPUT:** Plug a laptop, MP3 player or other audio device into this jack to wirelessly transmit the audio signal to be played through the system.

5. **REGISTRATION BUTTON:** Located in the battery compartment, only used when adding or replacing Sharemike.

6. **CHARGER INPUT:** Plug the charging cable from the Sharemike charger into this jack.

7. **SYSTEM ID LABEL**
1. Make sure the charger is plugged into a wall outlet. Connect barrel end of the charging cable into the jack labeled CHARGE on the bottom of the Sharemike.

2. Plug the other end into the USB jack on the back of the cradle charger. (Figure 1)

3. When cradle charger is not included with a Sharemike-only system, connect the USB end of the charging cable into the charging adaptor and the barrel end into the jack labeled CHARGE on the bottom of the Sharemike. (Figure 2)

4. Plug the 5V power supply into the power jack on the charging adaptor and plug power supply into a wall outlet.

5. The MIC 2 light on the microphone will glow red to indicate charging.

6. Leave the Sharemike plugged in overnight (8-10 hours) to obtain a full charge. The light will turn green when charging is complete.

7. During charging the blue status light will stay on.

**PLEASE NOTE:** The Multimike and microphone(s) are registered together at the factory. If you have purchased a Sharemike with your Multimike, keep all components together as a system. Moving them from one system, or room, to another will result in the need to re-register.
SHAREMIKE: INITIAL SET-UP

Up to 5 microphones can be used with a Multimike. This can consist of 5 Flexmikes, 5 Sharemikes or a combination of Flexmikes and Sharemikes for a total of 5.

1. Ensure the Multimike is on. The blue light on the front of the Multimike will glow.
2. Turn on the Sharemike by pressing and holding the power button until the LED lights.
3. Grip the barrel in the center section.
4. While speaking in a normal voice, increase the volume on the Multimike MICROPHONE VOLUME knob until your voice is barely audible.

REMEMBER: This equipment is designed to supplement and distribute the user’s voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.
1. **At start of day, remove the microphone(s) from the charger.**
   - The microphone will default to the Mute position, the status will turn to red.
   - If using a Flexmike with your system, place the Flexmike around your neck.
   - Press the power/mute button on the microphone. The status will turn blue, indicating the microphone is active and ready to use.
   - For Flexmike, adjust volume with the UP/DOWN buttons if necessary.
   - If the microphone needs to be powered down for some time, press and hold the power button. To power the microphone on again, press and hold the power button until the blue light begins to blink.

2. **Private conversations.**
   - Mute the microphone during private conversations by momentarily pressing the power button. When muted, the blue light turns red.
   - When conversation is over, momentarily press the power button again to unmute the microphone.

3. **End of day.**
   - Remove the Flexmike from around your neck.
   - Place the Flexmike into the cradle charger and ensure it is plugged in to an outlet and/or plug the charging cable into the Sharemike.
   - The microphone will stay powered on during charging, but will automatically be muted.
   - It is not necessary to turn off Multimike as it will automatically power down after 2 hours without activity.
   - If you do want to manually power it down, press and hold the power button on the front of Multimike. If Multimike is powered down, then when the microphone is removed from charging the next day, it will automatically power the Multimike on.
OPTIONAL ACCESSORIES

MEDIA CONNECTOR CONTROLS AND CONNECTIONS

NOTE: When using the Media Connector with Multimike, the maximum number of microphones that can be used is four.

1. POWER LIGHT: This light will turn blue when power is on.

2. POWER BUTTON: Press and hold this pushbutton to turn the system power on or off.

3. MICROPHONE VOLUME CONTROL: Controls the volume level of the microphones.

4. AUDIO IN VOLUME CONTROL: Controls the volume level of the connected audio sources.

5. AUDIO OUT VOLUME CONTROL: Adjusts the audio signal level output through the ALD audio output connector.

6. AUDIO LINK LIGHT: The green light blinks when a link is being established. The light is solid green when the link is established.

7. SYSTEM ID LABEL: On bottom of unit
1. **TONE CONTROL**: Adjusts the audio tone, adding more bass or treble for a more rich or crisp sounds.

2. **USB POWER INPUT**: Plug the micro USB end of the power cable into this USB port.

3. **REGISTRATION PUSHBUTTON & LIGHT**: Pushing the registration button in conjunction with the registration button on the Multimike will cause the two units to synchronize as an operating system. The registration light stops blinking and the link light is solid when a link is established. This is only used when adding or replacing a Media Connector.

4. **TWO AUDIO OUTPUTS**: 3.5mm stereo jacks send audio signal to external equipment such as a recorder or an assistive listening device.

5. **FOUR AUDIO INPUTS**: Connect standard audio devices to any of the 3.5mm stereo inputs. A provided cable allows connectivity to RCA stereo outputs common on DVD players and televisions.
USING THE MEDIA CONNECTOR

The Media Connector, when paired together with the system, becomes the primary volume control for the microphones and audio sources you’ve connected.

1. Plug the micro USB end of the power cable into the USB port on the back of the Media Connector. Plug the other end of the cable into the USB1 power adaptor. Alternatively, the USB cable could be plugged into a computer for power.

2. Connect the audio source(s) to the Media Connector using the 3.5mm cables provided.

3. Set the audio source volume to provide sound through the audio system.

4. Use the AUDIO IN volume control on the front of the Media Connector to increase or decrease the audio source sound level.

**NOTE:** When a Media Connector is paired with an Multimike, microphone volume and tone control levels are locked out. Microphone volume and tone control levels default to the Media Connector controls to avoid multiple control points for the same functions.

NORMALIZING AUDIO SOURCE VOLUME LEVELS

Use the Media Connector as the master audio volume control for audio sources. When two or more audio sources are connected, you will need to normalize volume settings by setting all connected audio sources to the same sound level while leaving the Media Connector AUDIO IN volume control set to its center setting. The Media Connector is an audio mixer using a master volume control to adjust the volume of all audio sources at once. Use the following procedure to set audio source volumes:

1. Connect the multimedia audio sources to the Media Connector using the 3.5mm cables provided.

2. Set the AUDIO IN volume control on the Media Connector to its center position.

3. Turn on an audio source that does not have an accessible audio level control. (DVD, VCR player)

4. Adjust the Media Connector AUDIO IN volume control so the audio level playing through the speaker is appropriate for the room.

5. Turn off the first audio source.

6. Turn on the second audio source. Use its volume control to balance the audio output to the same audio level played through the speaker as the first source.

7. Repeat steps 5 and 6 for the remaining audio sources.

8. Now, the Media Connector’s AUDIO IN volume can be used to increase or decrease the volume level for all audio sources as desired.
BATTERY REPLACEMENT

Replacement of battery pack in Flexmike. (Part # NH2.4V)

1. Slide the battery door open.
2. Carefully pull the battery pack away from the Flexmike and disconnect the cable.
3. Connect the cable of the new battery pack as shown and insert the battery pack into the compartment.
4. Slide the cover back on and snap into place.
5. Insert the Flexmike into the cradle charger to charge the battery pack.
BATTERY REPLACEMENT, CONT'D

Replacement of battery pack in Sharemike. (Part # NH2APK)

1. Slide the battery door open.
2. Carefully remove the battery pack from the Sharemike.
3. Insert the new battery pack into the compartment. Ensure proper polarity is observed.
4. Slide the cover back on and snap into place.
5. Connect the Sharemike to a charging cable and plug into the charging adaptor to charge the battery pack.
TROUBLESHOOTING

Note: Most problems are directly related to low battery power. Please run through the “Battery Check” items first. For remaining troubleshooting, use known good, fully-charged batteries.

PROBLEM: Most Problems are related to low battery power.
SOLUTION: Battery Check
• Confirm batteries are charged each night. A blinking red light on the power button indicates a low battery.
• Confirm proper batteries are used. The Flexmike requires the Lightspeed NH2.4V rechargeable battery pack. The Sharemike requires the Lightspeed BA-NH2APK rechargeable battery pack.
• Make sure the microphones obtain a full charge. A full charge takes 8-9 hours.
• When charging a transmitter, ensure the blue status light and the red charging light turn on. The green light will turn on when a full charge is reached.

PROBLEM: Microphone doesn’t indicate a “Ready” signal (solid blue or red light)
SOLUTION: Follow these steps to ensure the system is ready to use.
• Ensure the power button on the microphone is turned on. Once turned on, the blue light should begin blinking.
• Power the microphone off, then on again after a few seconds. Wait for up to 30 seconds for the blue light to turn solid, indicating READY for operation.

PROBLEM: Low Volume or Feedback
SOLUTION: Follow these steps to eliminate low volume or feedback.
• Check microphone volume level on the Multimike. If the volume is too high, feedback will occur. Adjust accordingly.
• Check input volume level on the amplifier. If the volume is too high, feedback will occur. Adjust accordingly.
• Adjust the volume level on the Flexmike.
• Check position of the Mic-Line switch on the Multimike. If volume levels seem too high and feedback is persistent, try the Mic level setting. If volume levels are very low, try the Line level setting.

If you review these instructions and still have questions, call Lightspeed Technical Services at 800.732.8999, 5 a.m. – 5 p.m., PST. Customers outside the U.S. should contact their local reseller.
PROBLEM: No Sound From Multimike and wireless components.

SOLUTION: Follow these steps to produce sound from Multimike.

- Confirm that the blue POWER light located on the front panel of the Multimike is on.
- Confirm the microphone is powered on and linked to the Multimike. The mic 1 status light will be green on the Multimike indicating the microphone is linked.
- Confirm that the microphone is turned on. There will be a solid blue light on the top of microphone to indicate it is powered on and ready.
- Confirm that microphone is not muted. A solid red light on the top of microphone will indicate it is muted.
- Check connections between Multimike and the amplifier. Make sure the cables are properly connected (see page 12 for more information).
- Check volume level of Multimike. Make sure that the microphone volume level on Multimike is not turned down all the way. Slowly turn up the volume level while talking in the microphone.
- Check volume level on the appropriate amplifier control. Make sure that volume level that corresponds with the input connection is turned up to a nominal level.
- Check the position of the Mic-Line switch. If it is set to Mic level, try switching it to Line level.

TIPS TO OBTAIN OPTIMUM AUDIO PERFORMANCE

- Speak in a natural voice. A normal conversational speech level will provide an adequate signal. It is not necessary to increase the intensity of your voice—the audio system provides adequate amplification (approximately 5 – 10 dB) above ambient room noises.
- Avoid wearing jewelry that may rub or bump against the microphone.
- Mute the Flexmike during private conversations. You can tell the mic is muted when the light turns red.
- Recharge microphones each night. When recharged nightly, operating time (actual usage) for the microphones will last about 8 hours.
Our Service Department (800.732.8999, 5 a.m. – 5 p.m., PST) will handle all your repair/replacement needs. Customers outside the U.S. should contact their local reseller.
SAFETY WARNINGS AND CERTIFICATIONS

The lightning flash with arrowhead symbol inside an equilateral triangle is intended to alert the user to the presence of non insulated “hazardous voltage” within the product’s enclosure, which may be of sufficient magnitude to induce a risk of electric shock to persons.

The exclamation mark inside an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying this product.

USE A LIGHTSPEED SUPPLIED BATTERY ONLY

This product is listed to UL standards and requirements for electrical safety by Underwriters Laboratories Inc.

This product conforms with the essential requirements of the following European Union Directives: 2014/30/EU Electromagnetic Compatibility (EMC), 2014/35/EU Low Voltage Directive (LVD) and 2014/53/EU Radio Equipment (RED).


This product is manufactured using lead-free processes and is free of other materials harmful to the environment. It conforms to the most stringent new European guidelines for consumer products (RoHS).
PRÉCAUTIONS DE SÉCURITÉ ET CERTIFICATIONS

L’éclair flèche dans un triangle équilatéral avertit l’utilisateur de la présence d’une “tension dangereuse” non isolée à l’intérieur de l’appareil, qui peut être d’une ampleur suffisante pour constituer un risque d’électrocution.

Le point d’exclamation contenu dans un triangle équilatéral avertit l’utilisateur de la présence d’importantes instructions d’exploitation et de maintenance dans la documentation qui accompagne ce produit.

UTILISEZ UNIQUEMENT LA BATTERIE LIGHT-SPEED FOURNIE

CERTIFICATIONS

Ce produit est certifié conforme aux normes et aux exigences UL en matière de sécurité électrique par Underwriters Laboratories Inc.


Ce produit est fabriqué en utilisant des processus sans plomb ni aucune autre matière nuisible à l’environnement. Il est conforme aux nouvelles règles européennes les plus strictes en matière de biens de consommation (RoHS).
FCC Notice to 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; and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 (that is, the antenna for radio or television that is receiving the interference).
• Reorient or relocate and increase the separation between the telecommunications equipment and receiving antenna.
• Connect the telecommunications equipment into an outlet on a circuit different from that to which the receiving antenna is connected.

FCC RF Radiation Exposure Statement

This device (Multimike) complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20cm between the radiator (Multimike) and any part of your body.

For body worn operation, the portable part (Flexmike) has been tested and meets FCC RF exposure guidelines.

This device must not be co-located or operating in conjunction with any other antenna or transmitter. The changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Notice to Canada User

English

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

French

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes :

(1) L’appareil ne doit pas produire de brouillage, et
(2) L’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

RF Radiation Exposure Statement

English

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) recommended by international guidelines. The guidelines were developed by Health Canada and include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

French

Votre appareil mobile est un émetteur-récepteur radio. Il est conçu pour ne pas dépasser les limites d’exposition aux ondes radio ( champs électromagnétiques de fréquence radio) recommandées par les directives internationales. Les lignes directrices ont été élaborées par Santé Canada et comportent une marge de sécurité importante destinée à assurer la sécurité de toutes les personnes, indépendamment de l’âge et de la santé.
NOTICE FOR USB

NOTE: Lightspeed is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user’s authority to operate the equipment.

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 receiver.
- Connect the equipment into 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.

EU DECLARATION OF CONFORMITY

EU Declaration of Conformity
According to EU Directives EMC 2014/30/EU, LVD 2014/35/EU, RED 2014/53/EU

Manufacturer: Lightspeed Technologies, Inc.
Address: 11509 SW Herman Rd, Tualatin, Oregon 97062

We herewith declare that the following systems comply with the appropriate basic safety and health requirements of the Directive based on its design and type, as brought into circulation by us. In case of alteration of the system, not agreed upon by us, this declaration will lose its validity.

Products: Redcat Access, Flexmike, Flexcat Pod, Flexcat Charging Station, Flexcat Hand Remote Control, Media Connector Access, Sharemike, Topcat, Access Link, 955 Access, Activate Station, Activate Pod, TCQ2, DRQ

Model Numbers: LSRCA 1881, LSFM 1881, FCP 1881, FCCS, FCHRJC, FCHRBC, LSMCA 1881, LSSM 1881, LSTCA 1881, LSAL 1881, LS955 1881, LSACT 1881, LSPOD 1881, TCQ2, DRQ

As applicable, products conform to the following EU/AS/NZ test standards listed below:

Safety Standards: IEC/EN 60065 and amendments

EMC/RF Standards: EN301 406 V2.1.1 (2009-07)
EN 301489-1/1-17
EN 50371 (2002)
EN 50385 (2002)
EN 300328
EN 55022
EN 55024
AS/NZ CISPER 22
AS/NZ 4268

The Technical Construction File is available to proper authorities and the product is CE marked.

Lightspeed Representative:

Michael Frost, Compliance Engineer
Date: August 15, 2018
## SYSTEM SPECIFICATIONS

### MULTIMIKE

<table>
<thead>
<tr>
<th>Description</th>
<th>Wireless audio base station</th>
</tr>
</thead>
</table>
| Audio output level (Nominal):| Line Mode: 316 mV RMS (2V RMS max)  
|                              | Mic Mode: -40 dB of line mode |
| Frequency response:          | 120 Hz - 8 kHz              |
| DC power Input:              | 5V/250mA micro-B USB connector |
| Total harmonic distortion:   | <1%                         |
| Wireless communication:      | Access Technology (1.9 GHz + RF4CE) |
| Tone control:                | 1 bass/treble control       |
| Audio input:                 | 3.5mm stereo w/ volume control |
| Audio outputs:               | 3.5mm stereo; 3-pin balanced euro-connector w/ volume control |
| Audio Link indicators:       | 2 indicators for microphone 1 and 2 |
| Device Registration:         | Push button for Flexmike(s); Sharemike(s); Media Connector |
| Dimensions (W x H x D):      | 7.6” x 5” x 1.13” (193 x 127 x 29mm) |
| Weight:                      | 9.6 oz. (272g)              |

### FLEXMIKE:

<table>
<thead>
<tr>
<th>Description</th>
<th>Pendent-style audio transceiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earbud lanyard:</td>
<td>Magnetic clasp with integrated earbud</td>
</tr>
<tr>
<td>Wireless communication:</td>
<td>Access Technology (1.9 GHz)</td>
</tr>
<tr>
<td>Audio distortion:</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Integrated microphone:</td>
<td>Uni-directional electret</td>
</tr>
<tr>
<td>Earbud output:</td>
<td>3.5mm</td>
</tr>
<tr>
<td>Audio input:</td>
<td>3.5mm</td>
</tr>
<tr>
<td>Volume control:</td>
<td>+/- 6 dB</td>
</tr>
<tr>
<td>Battery power:</td>
<td>2.5V NiMH battery pack</td>
</tr>
<tr>
<td>Battery life:</td>
<td>8 hours (fully charged)</td>
</tr>
<tr>
<td>Charging:</td>
<td>2 contacts for cradle charging</td>
</tr>
<tr>
<td>USB connection:</td>
<td>Type Micro-B for charging and audio</td>
</tr>
<tr>
<td>Power:</td>
<td>On/off switch</td>
</tr>
<tr>
<td>Registration:</td>
<td>Push button for registration with Multimike</td>
</tr>
<tr>
<td>Dimensions (L x W x H):</td>
<td>2.9” x 1.1” x 1.0” (74 x 28 x 25mm)</td>
</tr>
<tr>
<td>Weight:</td>
<td>1.8 oz (51g)</td>
</tr>
</tbody>
</table>
**SHAREMIKE**

Description: Handheld audio transceiver

Wireless communication: Access Technology (1.9 GHz)

Audio distortion: <1%

Integrated microphone: Uni-directional dynamic

Audio input: 3.5mm

Battery power: 2 AA NiMH battery pack

Battery life: 8 hours (fully charged)

Charging: 5V charging jack

Power: On/off button

Registration: Push button for registration with Multimike

Dimensions (L x W x H): 2.25" x 2.25" x 8.75" (57.2 x 57.2 x 222.3mm)

Weight: 7.36 oz (209g)

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**MEDIA CONNECTOR**

Description: Wireless audio transceiver

USB Power: 5V micro-B USB connector

Wireless communication: Access Technology (1.9 GHz + RF4CE)

Tone control: 1 bass/treble control

Audio input: 3.5mm stereo (x4) w/ master volume

Audio output: 3.5mm stereo (X2) mixed w/ volume control

Audio Link indicator: 1 LED on front panel

Registration indicator: 1 LED on back panel

Device Registration: Push button for Multimike

Dimensions (W x H x D): 7.6" x 5" x 1.13" (193 x 127 x 29mm)

Weight: 9.6 oz. (272g)
Dedicated to Access for all

We strive to make a remarkable difference for teachers and students by creating Access to powerful in-the-moment insights to the learning process. Our audio and video solutions improve student engagement, enable teachers to activate small groups, and encourage collaboration.