

Portable Audio System



User Manual

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IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- Do not use the apparatus near water.
- 6. Clean only with dry cloth.
- 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.
- 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.

SECTION 1:

OVERVIEW

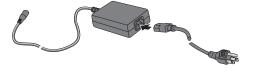
SYSTEM COMPONENTS AND UNPACKING

The standard configuration of the 705iR will contain:





Receiver/Amplifier Power Supply



Cradle Charger and Power Supply



REDMIKE® Classroom Microphone



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OPTIONAL COMPONENTS

Optional equipment which may be part of your 705iR system:

REDMIKE™ VC Volume Control Microphone



REDMIKE Share Handheld Mic & Charging Cable

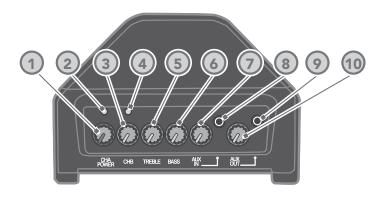


LT71 LightMic and Charging Cable



Optional Components

Optional C	omponents
RMV	REDMIKE VM Volume Control classroom microphone w/ lavaliere cord and rechargeable AA sensing battery
LT71	LightMic microphone with lavaliere cord, rechargeable batteries and charging cable
RMS	Handheld microphone with rechargeable batteries and charging cable



- CH A POWER: This knob turns on the power for the 705iR and controls the channel A volume. We recommend using channel A if you are using a single microphone for your system.
- LED LIGHT: Located above the CH A POWER knob. Turns red momentarily when the system power is turned on.

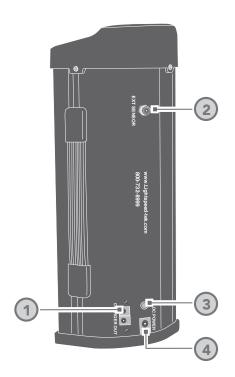
NOTE: When a transmitter/ microphone set to channel A is turned on, the channel A LED glows green to indicate your transmitter's signal is being received by the amplifier.

- 3. CH B VOLUME: This knob controls the volume for channel B. You must first turn the 705iR on with the CH A POWER knob, then turn the CH B VOLUME knob clock-wise to increase volume. Use channel B when using a second microphone.
- 4. LED LIGHT: Loacted above CH B VOLUME knob. Turns green to indicate a signal is being received from a microphone/transmitter set to channel B.

- **5. TREBLE:** This knob controls the high-frequency sound of the 705iR.
- **6. BASS:** This knob controls the low-frequency sound of the 705iR.
- AUX IN VOLUME: This knob controls the volume level of an external audio source (computer, iPod, CD player) that is plugged into the AUX IN jack.
- **8. AUX INPUT JACK:** This 3.5 mm jack is used to connect to an external audio source.
- AUX OUTPUT JACK: This jack sends audio to external equipment such as an assistive listening device (Personal FM System) or recording device.
- 10. AUX OUT VOLUME: This knob controls the audio level going to external equipment when plugged into the AUX OUT jack.

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REAR PANEL CONTROLS

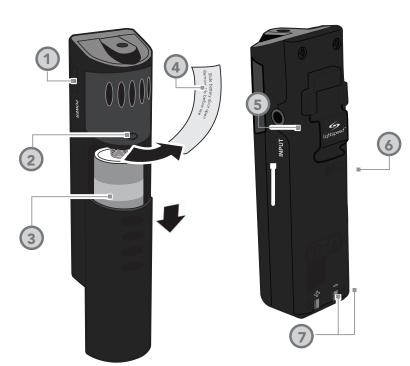


1. TRANSMITTER CHARGING

JACKS: This connector is used to connect the charging cable to the optional LightMic transmitter or the optional RMS handheld microphone for daily battery recharging.

2. EXTERNAL IR SENSOR JACK: This jack is for testing purposes only.

- **3. CHARGING LED:** This LED glows red when the 705iR battery is charging and glows green when fully charged.
- 4. DC POWER INPUT JACK: This input connects to the 16 V AC/DC adaptor that comes with the 705iR. The adaptor is used to either charge the internal battery pack or power the 705iR with AC power.



- POWER BUTTON: Press this button to turn the REDMIKE on, press again to turn it off (mute).
- 2. POWER/LOW BATTERY
 INDICATOR: A blue light indicates
 the REDMIKE is on and fully
 charged. A red light indicates a
 charge is needed.
- BATTERY COMPARTMENT: To access the battery compartment, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # NH2A27).
- 4. YELLOW PROTECTIVE TAB:

Slide the battery compartment door open to remove this disposable protective tab before use. NOTE: do not attempt to remove the tab without first opening the compartment door, as it may tear, leaving fragments.

5. AUDIO/MICROPHONE INPUT:

Use this input to plug in a laptop, MP3 player or other audio source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.

6. CHANNEL SELECT SWITCH (CH A/B): This switch allows for selection between channel A or B. If you are using a single microphone, we recommend using channel A.

7. CHARGER CONTACTS (+ -):

These contacts interface with the charging tabs in the RMCC cradle charger for daily charging. Simply place the REDMIKE in the charger.

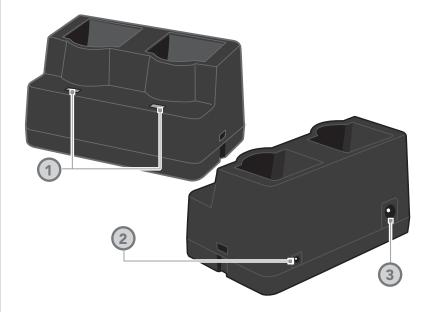
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CRADLE CHARGER CONTROLS AND CONNECTIONS



- 1. CHARGE INDICATORS: The light glows red while the REDMIKE is charging. When fully charged, the light will glow green. A blinking red light indicates that no battery is sensed, (REDMIKE Yellow Protective Tab may not have been completely removed—see page 5, item 4.) A blinking green LED means a non- Lightspeed battery has been installed (possibly an alkaline battery).
- **2. DC POWER PORT:** Connect the 5V/1.0A DC power cord here.
- **3. OPTIONAL CHARGING PORT:** Plug the charging cord for the optional LT71 or the REDMIKE Share microphone here.

SECTION 2:

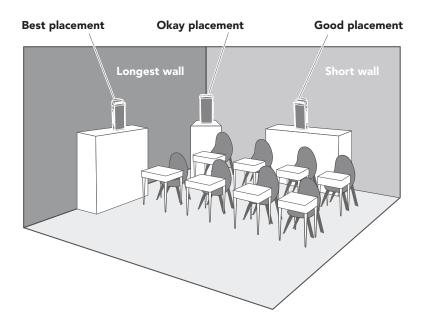
SET-UP & USE

1. POSITIONING THE 705iR

The 705iR has a built-in speaker, which should be directed toward the area of the classroom where the students are sitting. The unit can be placed on a table top or bookshelf at a height of 36 to 60 inches.

The ideal position in the classroom is centered along the longest wall. However, due to different classroom setups, this is not always possible. Here is a quick guide to choosing a location:

- BEST: Centered on the longest wall.
- GOOD: Centered on the short wall.
- OKAY: In a corner.
- AVOID: Placing the unit directly in front of a window.



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2. CHARGING THE 705iR

When fully charged, the circuit switches to a trickle charge, which will not overcharge or damage the batteries. A fully charged 705iR can operate under battery power for up to 6 hours.

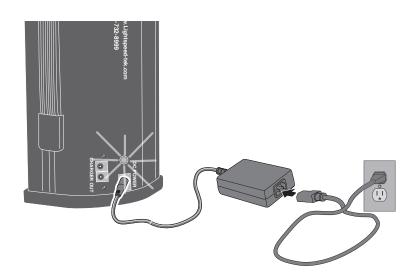
- Ensure the power knob (CH A POWER) on top of the 705iR is turned off.
- 2. Plug the power supply/charger cable into a standard AC outlet.

NOTE: Many users opt to only use the AC power. If this is the case, it's not necesary to charge the battery.

3. Plug the other end of the power supply/charger into the DC power jack on the back of 705iR. The LED above the DC will glow red. A solid green LED indicates the 705iR is fully charged.

Caution:

Discharging NiMH batteries until no charge remains can reduce battery life and, with continued discharging, to fail. Recharging the NiMH batteries in this product every day will extend their life.



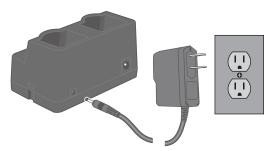
Before use, the REDMIKE should be charged. It will take 8-9 hours for the REDMIKE to obtain a full charge. A fully charged REDMIKE will last for over 7 hours of use. If microphones are used daily, they should be kept in the cradle – microphones can be left in a charging cradle constantly for up to 2 weeks without causing degradation to battery life.

A red light on the charging cradle indicates the REDMIKE is charging. A green light indicates that charging is complete and a full charge has been reached. A blinking light indicates a charging or sensing error. See Troubleshooting section for more information.

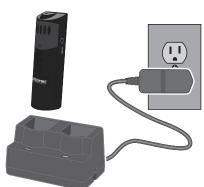
REDMIKE incorporates alkaline protection into the microphone design. Always use a Lightspeed rechargeable sensing battery. Replacement AA NiMH batteries may only be purchased through Lightspeed Technologies (part # NH2A27). Do not attempt to charge alkaline batteries. They can overheat and expand creating a significant hazard and damaging the microphone (this is not covered by warranty).

CAUTION: Discharging NiMH batteries until no charge remains can reduce battery life and, with continued discharging, to fail. Recharging the NiMH batteries in this product every day will extend their life.

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



 Place the REDMIKE into the cradle. The REDMIKE will automatically turn off. The LED on the cradle will glow red indicating charging has started. When the REDMIKE is fully charged the LED on the cradle charger will change to green.



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4. OPERATING THE REDMIKE

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

- Turn the 705iR power switch to the on position. The red LED on the switch will glow.
- 2. Turn on the REDMIKE. The red IR LED on the 705iR will light to indicate a signal is being received.
- Slip the REDMIKE with lanyard around the neck and position the top of the microphone just below the collarbone. NOTE: Positioning of the REDMIKE is critical for proper volume adjustment.
- While speaking in a normal voice slowly increase the volume of the corresponding channel on the 705iR until your voice is barely audible.

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.

- Once initial volume level is set, walk around the room and listen for audio dropout and overall audio quality.
 Fine-tuning the audio is accomplished by making minor adjustments to the BASS or TREBLE knobs on the top of the 705iR.
- 6. If a second REDMIKE was purchased, repeat steps 2-4.

NOTE: Each REDMIKE has its channel pre-set to either A or B, as indicated on the back of the Mic.

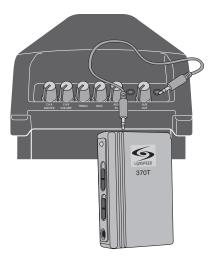




OUTPUT TO PERSONAL FM TRANSMITTER

- Using a cable with a 3.5 mm connector at one end, connect the AUX OUT of the 705iR to the input jack of the FM transmitter. Different manufacturers use different size audio input jacks on the transmitter. The Lightspeed 370T requires the MMC 3535 cable.
- Connect a patch cable from the AUX OUT jack on the top of the 705iR to the FM transmitter's microphone or AUX input jack.
- Adjust the volume control on the Personal FM receiver to maximum output. NOTE! This is to set the maximum allowable signal from the 705iR.
- 4. With the 705iR and FM transmitter turned on, speak into the microphone and slowly adjust the AUX OUT volume control until the appropriate audio level is achieved through the personal FM system.

NOTE The optional LT71 can also amplify external audio. Simply plug the 3.5mm patch cable from the audio source into the input labeled "AUX IN" and adjust the volume of the source to the desired sound level.





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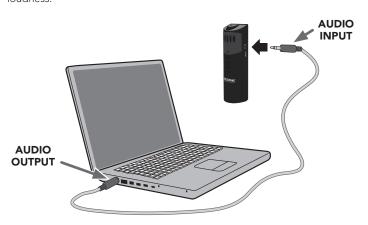
3. Optional Accessories

2. Setup & Use

USING THE REDMIKE TO AMPLIFY EXTERNAL AUDIO EQUIPMENT

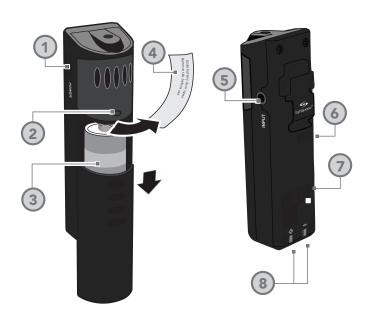
The REDMIKE includes a 3.5mm audio input jack to connect to an audio source like a laptop or MP3 player. The REDMIKE will transmit the audio signal to be played through the system.

- If your system includes two REDMIKEs, use the student microphone (already set to channel B). NOTE: This feature works on both channels but we recommend using channel B so the teacher's volume on the channel A does not have to be adjusted. REMEMBER: It's easy to determine which REDMIKE is set to channel B by speaking into the mic and watching which set of LED's glow on the top panel of the 705iR.
- Plug your laptop, MP3 player or other audio source into the input on the REDMIKE labeled "INPUT" using a 3.5mm patch cable.
- Adjust the volume of the selected mic channel to achieve desired loudness.



OPTIONAL ACCESSORIES

OPTIONAL REDMIKE VC (Volume Control) Controls and Connections



- 1. POWER /MUTE BUTTON
- POWER/LOW BATTERY
 INDICATOR: A blue light indicates the REDMIKE VC is on and fully charged. A red light indicates a charge is needed.
- **3. BATTERY COMPARTMENT:** To open, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # NH2A27).
- **4. YELLOW PROTECTIVE TAB:**Slide the battery compartment door and remove this disposable protective tab before use.
- 5. AUDIO/MICROPHONE INPUT: Use this input to plug in a laptop, MP3 player or other audio

source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.

- 6. CHANNEL SELECT SWITCH (CH A/B): Use this to choose channel A or B. If you are using a single microphone, we recommend using channel A.
- VOLUME CONTROLS (UP DOWN)
- CHARGER CONTACTS (+ -):
 These contacts interface with the charging tabs when the REDMIKE VC is placed in the RMCC cradle charger.

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2. Setup & Us

REDMIKE VC: Charging

Before use, the REDMIKE VC should be charged. See page 13 and follow the same instructions for the REDMIKE.

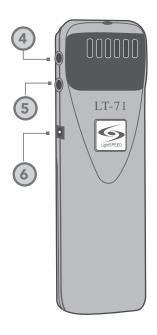
REDMIKE VC: Initial Set-up

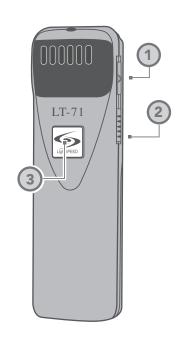
See page 14 and follow the same instructions for the REDMIKE to setup the REDMIKE VC.

NOTE: A nominal volume level must be set on the 705iR before adjusting controls on the REDMIKE VC.

The teacher can now use the controls on the REDMIKE VC to adjust the volume level from anywhere in the room. The microphone volume control has 4 steps up and 4 steps down from the mid point (9 levels total).

OPTIONAL LT71: Controls and Connections





- 1. ON/OFF/MUTE SWITCH
- CHANNEL SELECT SWITCH (CH A/B): Use this to choose channel A or B. If you are using a single microphone, we recommend using channel A.
- 3. POWER/CHARGE INDICATOR: A blue light indicates the REDMIKE VC is on and fully charged. A red light indicates a charge is needed.
- 4. EXTERNAL MICROPHONE INPUT (MIC): Use the 3.5mm MIC jack for the optional TK250M headset microphone (part# TK250M).

- 5. AUXILIARY (AUX): Plug a laptop, MP3 player or other audio source into this jack to wirelessly transmit the audio signal to be played through the system.
- 6. CHARGER INPUT (CHARGER): Plug the charging cable from the charger into this jack for daily charging. The LED on the front will glow red to indicate charging.

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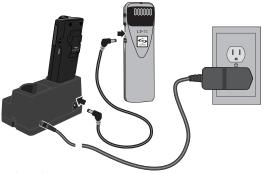
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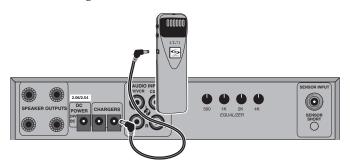
2. Setup & Use

LT71: Charging

- 1. Ensure that the LT71 is turned off.
- Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the side of the LT71 and plug the other end into the charging jack on the rear of the REDMIKE cradle charger. The LT71's rechargeable batteries are factory installed. The LED on the front of the LT71 will glow red when charging.
- 3. Leave the LT71 plugged in overnight (8–10 hrs.) to obtain a full charge.



NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the LT71 will utilize a charging cable. Simply connect the charging cables to the jacks labeled CHARGER on the back of the amplifier and connect the opposite ends to the jacks on the back of the cradle charger.



LT71: Initial Set-up

Once the LT71 is charged, follow these steps to set it up for use.

- Turn the 705iR power switch to the on position. The red LED on the switch will glow.
- 2. Turn on the LT71 and set the operating channel to "B".
- 3. Slip the LT71 with lanyard around the neck and position the top of the microphone just below the collarbone. NOTE: Positioning of the LT71 is critical for proper volume adjustment.
- 4. While speaking in a normal voice slowly increase the volume for channel B on the 705iR until your voice is barely audible.

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.



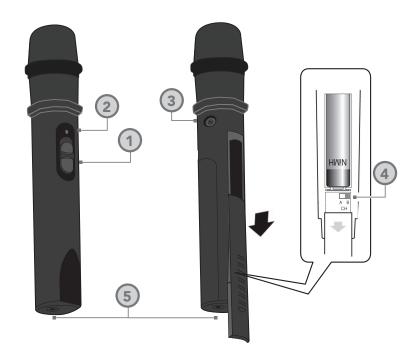
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REDMIKE Share: Controls and Connections

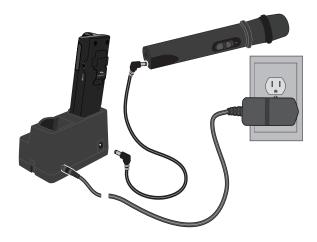


1. POWER SWITCH

POWER/CHARGE INDICATOR: this light glows blue when turned on and turns off to indicate low battery level. When charging, the light glows red.

- 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.
- 4. CHANNEL SELECT SWITCH (CH A/B): Located in the battery compartment, this switch is set to channel B at the factory.
- 5. CHARGER INPUT: Plug the charging cable from the REDMIKE cradle charger or into this jack.

- 1. Ensure that the REDMIKE Share is turned off.
- Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the side of the REDMIKE Share and plug the other end into the charging jack on the rear of the cradle
- charger. The REDMIKE Share's rechargeable batteries are factory installed. The LED on the front of the Handheld Mic will glow green when charging.
- 3. Leave the REDMIKE Share plugged in overnight (8–10 hrs.) to obtain a full charge. The green light will turn off when fully charged.



NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the REDMIKE Share will utilize the charger jacks on the back of the 705iR.



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REDMIKE Share: Initial Set-up

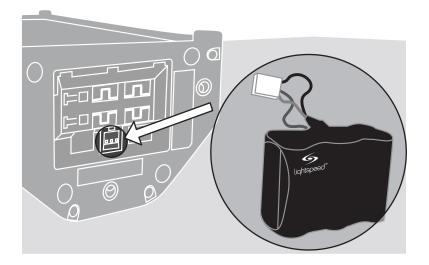
- 1. Ensure the 705iR is ON. The red LED on the power switch will glow.
- 2. Turn on the REDMIKE Share by sliding the switch to the top position.
- Grip the barrel in the center section. Avoid covering the infrared emitters just below the microphone grille. This could interrupt signal transmission.
- 4. While speaking in a normal voice, increase the CH B VOLUME level on your 705iR 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.



The battery-pack is pre-installed into the 705iR when you receive the system. However, should the battery-pack require replacement at sometime during the life of the product, please refer to the following instructions.

- 1. Remove the battery door on the bottom of the 705iR.
- 2. Pull the existing battery out and disconnect the cable.
- 3. Plug the new battery into the jack in the 705iR (as shown).
- 4. Insert the battery pack into the slot.
- 5. Re-attach the battery door.
- 6. The unit should be charged for 10 hours before use to ensure full battery life.



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INITIAL SET-UP: OPTIONAL IR MEDIA CONNECTOR

Turn off the second microphone.
 The iR Media Connector uses the same channel (channel B) as the optional second microphone (REDMIKE, LT71, or REDMIKE Share). As a result, they cannot be used simultaneously. If you have a second microphone, turn it off before transmitting audio from the iRMC.

NOTE: If you adjust the CH B volume on the 705iR, you will also be changing the volume for your second microphone. Return the CH B volume knob to the original position before turning the second microphone back on.

- The iR Media Connector volume is preset for most standard audio signals. If you need to turn the volume up or down, follow this procedure:
 - A. Adjust the volume at the computer, television, or other audio source if possible.









B. If the audio source does not have a volume control (such as many DVD players) adjust the volume at the iRMC.





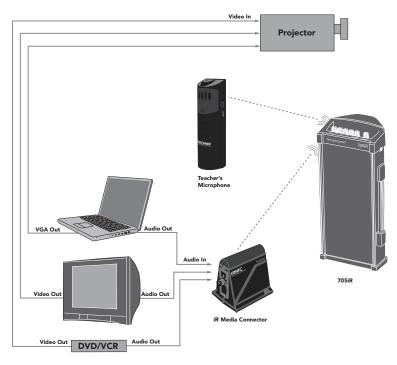
C. If the first two options do not give optimum volume level, the last place to adjust the volume is the CH. B Volume on the 705iR.





OPTIONAL IR MEDIA CONNECTOR AUDIO INTEGRATION

The iRMC is designed to integrate with the 705iR and multiple audio sources, allowing other instructional technologies to be clearly heard throughout the classroom.



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COMPONENTS & OPTIONAL ACCESSORIES

IRMC	Infrared Media Connector
TK250M	Noise-canceling headset microphone
TCC7	Charging cable for REDMIKE Share and LT71
RCA6	6' dual RCA audio cable
MSC3535	3.5mm to 3.5mm stereo audio cable
NH12V	10 Cell battery pack for 705

SECTION 4:

TROUBLESHOOTING

COMMON PROBLEMS AND SOLUTIONS

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.

ALL PROBLEMS: Most Problems are related to low battery power.

SOLUTION: Battery Check

- Confirm batteries are charged each night.
- Confirm proper batteries are used. The REDMIKE requires the Lightspeed NH2A27 rechargeable sensing battery for proper charging. The REDMIK Share uses the NH2APK rechargeable battery pack. The LT71 requires two NH1 AA rechargeable batteries.
- Make sure the microphones are turned off while charging so a full charge is attained. Full charge will last eight hours.
- Inspect the battery contacts. Clean and adjust if necessary.

PROBLEM: Hearing Static

SOLUTION: Follow these steps to eliminate static.

- Ensure sensor is in optimum location (refer to sensor placement in manual).
- Ensure that no other REDMIKE/ LT71/REDMIKE Share is operating on the same channel.
- If the optional iR media connection is in use, set the microphone to channel A.

PROBLEM: Low Volume or Feedback

SOLUTION: Follow these steps to eliminate low volume or feedback.

- Ensure microphone is positioned appropriately, just below the collar bone.
- Check volume level on the amplifier. If the volume is too high, feedback will occur. Adjust accordingly.
- Adjust the volume level on the back of the optional REDMIKE VC.

PROBLEM: No Sound From Speaker **SOLUTION:** Follow these steps to produce sound from speakers.

- Turn the 705iR on. Confirm that the POWER light flashes red one time when turned on.
- Confirm signal is being received at the 705iR. The IR signal light will be green indicating a signal is being received from the microphone.
- Confirm that REDMIKE is turned on. There will be a blue LED on the microphone to indicate it is powered on.

If you review these instructions and still have questions, write down the serial number and model number of your system and 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.

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.
- Turn the REDMIKE off during private conversations with a student, parent, or other classroom visitor. You can also cover the LED lens on top of the REDMIKE to block the signal.
- Recharge batteries each night.
 When recharged nightly, operating time (actual usage) for the transmitters will last through a typical school day.

5. Warranty, Safety & Specifications

4. Troubleshooting

3. Optional

. Setup & Use

Overview

SECTION 5:

WARRANTY, SAFETY & SPECIFICATIONS

FIVE-YEAR LIMITED WARRANTY

Lightspeed Infrared Audio Systems and optional accessories are warranted against malfunction due to defect in materials and workmanship for a period of five (5) years from date of purchase. System components will be repaired or replaced at Lightspeed's option. Rechargeable batteries and connecting cables are guaranteed for one (1) year. Warranty does not extend to finish, appearance, or malfunctions due to abuse or misuse. Repairs performed by other than Lightspeed Technologies will void this warranty.

For warranty service, including return shipping labels, please contact Lightspeed's Service Department at 800.732.8999 / service@lightspeedtek.com.

- 1. Warranty on infrared microphones is FIVE (5) YEARS.
- 2. Warranty on Lightspeed rechargeable batteries, all external cables and wires provided by Lightspeed is one (1) year.
- Prepaid shipping labels are provided by Lightspeed factory or an authorized warranty service center for warranty repairs.
- 4. Warranty does not extend to finish, appearance items, or malfunctions due to abuse or operation other than specified conditions, nor does it extend to incidental or consequential damages. Repair by other than Lightspeed or its authorized service agencies will void this guarantee. Information on authorized service agencies is available from Lightspeed Technologies, Inc.

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



CAUTION



RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL

CAUTION

RISK OF ELECTRICAL SHOCK
DO NOT OPEN



USE A LIGHTSPEED SUPPLIED BATTERY ONLY

CERTIFICATIONS



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: 89/336/EEC, 92/31/EEC, 93/68/EED, and 2004/108/EC Electromagnetic Compatibility Directives.



Lightspeed Technologies launched a formal product recycle program in Europe that complies with the European Union Directive 2002/96/EC on Waste Electrical and Electronic Equipment ("WEEE Directive"). Please visit our website at www.Lightspeed-tek.com for more information.



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).

DECLARATION OF CONFORMITY ACCORDING TO EC LVD DIRECTIVE 2006/42/EC

Manufacturer: Lightspeed Technologies,Inc.

Address: 11509 SW Herman Rd,
Tualatin, Oregon 97062

We Herewith declare, that the following system complies 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.

Product: 7xx Series

Model Number: 705iR

Conforms to the following EU Directives and the standards stated:

Low Voltage Directive: 73/23/EEC and amendments; UL/IEC 60065 **EMC Directives:** 89/336/EEC, 92/31/EEC, 93/68/EEC, 2004/108/EC

EN 55022/2006:

 $EN55024/1998+A1/2001+A2/2003\ EN61000-3\ \&\ -4\ --Generic\ Immunity\ Standard\ CISPR\ 22,\ Class\ B\ -\ Radiated\ and\ Conducted\ Emissions\ from\ Audio\ Equipment$

Including: EN 61000-3-2:2000

EN 61000-3-3:1995 + A1/2001

EN 61000-4-2:2001

EN 61000-4-3:2002 + A1/2002

EN 61000-4-4:2004

EN 61000-4-5:2001

EN 61000-4-6:1996 + A1/2001 EN 61000-4-8:2001 EN 61000-4-11:2001

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

SYSTEM SPECIFICATIONS

OVERALL SPECIFICATIONS

Standard Carrier Frequencies (IR)	2.06/2.54 MHz
Frequency Stability	± 3%
Signal-to-Noise Ratio	> 73 dB
Dynamic Range	> 73 dB
Frequency Response	100 Hz - 10 KHz

RECEIVER/AMPLIFIER SPECIFICATIONS

Receiver Type	Superheterodyne
Receiver Sensitivity	6 µV for 60 dB S/N
Image and Spurious Rejection	> 70 dB
Dimensions (W \times D \times H)	13.25" x 5.75" x 4"
Weight	5 lbs. with battery pack
Total Harmonic Distortion	< 1% (Output = 1W)
Power Output	12W RMS
Speaker Type	Standard Cone 4"
Speaker Load Impedance	4 Ohms
Adjustable Tone Controls	± 8 dB (100 Hz - 10 KHz)
Power Supply (UL Listed)	16V/2.0 A
Battery Power (1-year warranty)	12V NiMH Battery Pack

TRANSMITTER SPECIFICATIONS

REDMIKE and REDMIKE VC	
Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	1 AA NiMH Rechargeable Sensing
Audio Input	3.5 mm
Dimensions (W x D x H)	0.9" x 1.0" x 3.5"
Weight	2.1 oz.

LT71 LightMic

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	2 AA NiMH Rechargeable
Audio Inputs	Mic Level 3.5 mm, Line Level 3.5 mm
Dimensions (W x D x H)	1.375" x .75" x 4.625"
Weight	3.7 oz.

REDMIKE Share Handheld Microphone

Audio distortion	<1%
Built-in Microphone	Uni-directional electret
Battery Power (1-year warranty)	2 AA NiMH Rechargeable
	Battery Pack
Audio Input	3.5 mm
Dimensions (W x D x H)	8.25" x 1.3" x 1.3"
Weight (with batteries)	7.9 oz





LIGHTSPEED TECHNOLOGIES

11509 SW HERMAN ROAD / TUALATIN, OR 97062

TOLL FREE: 800.732.8999 / PHONE: 503.684.5538 / FAX: 503.684.3197

LIGHTSPEED-TEK.COM