Flexcat®
Classroom 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.
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.
SECTION 1:

OVERVIEW

SYSTEM COMPONENTS AND UNPACKING

The standard configuration of the Flexcat will contain:

Redcat Access whole class speaker with power supply

Small group speaker Pods (4-6)

Flexmike + earbud lanyard & teacher remote

Charging station with power supply

PLEASE NOTE: Redcat, speaker pods, Flexmike(s) and remote(s) are registered together at the factory and are labeled as such. Please keep all components together as a system. Moving them from one system, or room, to another will result in the need to re-register them to function.

Additional system labels are included in the back of this manual should you add components, or if one of your original components should need to be replaced.
## STANDARD COMPONENTS

### Standard Components (U.S. and Canada)

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCA</td>
<td>Redcat Access whole room speaker w/ power supply</td>
</tr>
<tr>
<td>FCCS</td>
<td>Flexcat charging station with power supply</td>
</tr>
<tr>
<td>FCP</td>
<td>Flexcat speaker pod with rechargeable battery pack</td>
</tr>
<tr>
<td>FCTT</td>
<td>Flexcat team-teaching kit (Flexmike, earbud lanyard &amp; remote control)</td>
</tr>
<tr>
<td>FM-EBL</td>
<td>Flexmike pendant microphone with earbud lanyard and battery pack</td>
</tr>
<tr>
<td>FCHRC</td>
<td>Flexcat handheld remote control with rechargeable battery pack</td>
</tr>
<tr>
<td>EBL</td>
<td>Flexmike earbud lanyard</td>
</tr>
<tr>
<td>NH6V</td>
<td>6V NiMH rechargeable battery pack for speaker pods</td>
</tr>
<tr>
<td>NH2.4V</td>
<td>2.4V NiMH rechargeable battery pack for Flexmike and remote</td>
</tr>
<tr>
<td>24V-1.75-NA</td>
<td>24V/1.75A power supply for Redcat Access, U.S. and Canada</td>
</tr>
<tr>
<td>16V-2.0-NA</td>
<td>16V/2.0A power supply for FCCS, U.S. and Canada</td>
</tr>
</tbody>
</table>

### Standard Components (Outside U.S. and Canada)

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCA-1881-__</td>
<td>Redcat Access whole room speaker w/power supply, specify country</td>
</tr>
<tr>
<td>FCP-1881</td>
<td>Flexcat speaker pod with rechargeable battery pack</td>
</tr>
<tr>
<td>FCTT-1881</td>
<td>Flexcat team-teaching kit (Flexmike, earbud lanyard &amp; remote control)</td>
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<td>24V/1.75A power supply for Redcat Access, specify country</td>
</tr>
<tr>
<td>16V-2.0-__</td>
<td>16V/2.0A power supply for FCCS, specify country</td>
</tr>
</tbody>
</table>
## Optional Components

Equipment which may be part of your Flexcat:

**Additional speaker pods**

**Team teaching kit:**
2nd Flexmike + earbud lanyard and remote

### Optional Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCA</td>
<td>Media Connector, U.S. and Canada</td>
</tr>
<tr>
<td>MCA-1881</td>
<td>Media Connector, outside U.S and Canada</td>
</tr>
<tr>
<td>USB1-NA</td>
<td>Power adaptor for MCA, U.S. and Canada</td>
</tr>
<tr>
<td>USB3DC</td>
<td>Power adaptor for MCA, outside U.S. and Canada</td>
</tr>
<tr>
<td>5V-1.0-INT</td>
<td>5V charging power supply for MCA, outside U.S. and Canada</td>
</tr>
<tr>
<td>16VCC</td>
<td>DC charging cable for optional speaker pods #5-6</td>
</tr>
<tr>
<td>MSC3535</td>
<td>3.5mm-3.5mm stereo audio cable</td>
</tr>
<tr>
<td>USB-MCB</td>
<td>USB Type A-Micro B power cable for MCA</td>
</tr>
<tr>
<td>RCWB</td>
<td>Wall mounting power supply bracket for RCA</td>
</tr>
<tr>
<td>RCSB</td>
<td>Security bracket for RCA</td>
</tr>
<tr>
<td>L14V</td>
<td>Redcat Access Lithium ion battery pack</td>
</tr>
</tbody>
</table>
REDCAT SPEAKER CONTROLS, CONNECTIONS AND INDICATORS

1. **POWER ON INDICATOR:** The power light will glow blue when power is applied.

2. **MIC 1 & MIC 2:** Mic link and registration indicators
   a. Flashing amber indicates registration is in process.
   b. Solid green indicates a link has been established.

3. **MICROPHONE VOLUME:** Controls the volume level of teacher microphone(s) and student sharing from pods.

4. **TONE CONTROL:** Adjusts the audio tone, adding more bass or treble for a more rich or crisp sound.
5. REGISTRATION: Press this button if there is a new microphone, pod, Media Connector or remote to be registered.

6. AUDIO INPUT JACK & VOLUME CONTROL: 3.5mm stereo connector for connecting multimedia sources to the Redcat Access. Controls the volume level of the audio input from the connected audio source.

7. AUDIO OUTPUT JACK & VOLUME CONTROL: 3.5mm stereo connector for connecting to an assisted listening device (ALD) or to a computer for recording. Controls the volume level of the audio output.

8. POWER BUTTON: This button is used to turn the Redcat Access on or off. The blue front panel will glow when power is on.

9. POWER INPUT JACK: Plug the power supply (24VDC/1.75A) into this jack.

REAR PANEL FEATURES

1. CARRYING INSET: Cutaway grip for moving or carrying the Redcat Access.

2. CABLE MANAGEMENT AND STRAIN RELIEF

3. WALL MOUNTING SLOTS

4. SECURITY BRACKET SLOT

5. SYSTEM ID LABEL

6. COMPARTMENT FOR OPTIONAL BATTERY PACK
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 microphone is registered as MIC 1.
   - Blue: solid = normal operation; flashing = linking in process.
   - Red: solid = muted; flashing = muted while linking in process.

3. **MIC 2 STATUS**: lighted to indicate microphone is registered as MIC 2 (same behavior as MIC 1 status light above).

4. **EARBUD CONNECTION**: connect the earbud for monitoring.

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

6. **MICROPHONE VOLUME UP/DOWN**

7. **AUDIO INPUT**: connect audio source to send to whole class.

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**
1. **CHARGING INDICATOR**: this light turns red when charging, green to indicate charging complete.

2. **POWER/LOW BATTERY INDICATOR**: this light blinks blue when powered on, turns solid blue when ready for operation and turns red when the battery is low.

3. **POD NUMBER STICKER**: this sticker acts as a clear visual indicator for the teacher to determine which speaker represents which group number.

4. **LOUDSPEAKER**: the internal loudspeaker distributes the teacher’s voice.

5. **MICROPHONE**: the internal microphone that picks up the student’s voice.

6. **CALL BUTTON**: students can press this button to notify the teacher they need assistance.

7. **AUDIO OUT**: this jack and volume adjustment connects audio from the pod to an assistive listening or recording device.

8. **DC CHARGING/POWER INPUT**: to charge optional pods #5 and 6, plug the charging cable from the base station into this jack.
REMOTE CONTROL FUNCTIONS AND INDICATORS

1. CLASSROOM SPEAKER SELECTION: press to select the Redcat speaker to address the whole class. The button turns green when selected.

2. SPEAKER POD SELECTION (1-6): press to select a specific pod. The button turns green when addressing that group, red when monitoring (listening only).

3. MICROPHONE MUTE (MONITOR): press this button to mute the microphone and monitor the different groups.

4. EARBUD VOLUME: these buttons turn up and down the volume of the teacher earbud, allowing you to hear the student groups at a comfortable volume level.

5. CHARGING INDICATOR: this light turns red when charging and green when fully recharged.

6. LOW BATTERY INDICATOR: this light turns red when battery is low.

7. BATTERY COMPARTMENT: remove screw and open to replace rechargeable battery pack.

8. REGISTRATION: press this button to add/replace a remote.
SECTION 2:

INITIAL SET-UP

1. DETERMINE SET-UP LOCATIONS

Flexcat Charging Station:
The charging station organizes and charges the pods, microphone(s) and remote(s). It can be set up anywhere, but it is best to be near the teachers desk and highly accessible for both teachers and students.

Key considerations:
- Close proximity to AC power outlet
- Accessible for daily charging of all components

Redcat Access Speaker:
The Redcat Access whole class speaker projects and evenly distributes audio throughout the entire class. It can be set on a tabletop or mounted on a wall if desired.

Key considerations:
- Close proximity to AC power outlet (within about 7 feet)
- Positioned on a surface about 4-6 feet high
- Centered along a side or rear wall of the classroom
2. PLUG IN THE CHARGING STATION & REDCAT ACCESS SPEAKER

1. Locate the 16V power supply for the charging station and the 24V power supply for the Redcat Access.

2. Connect the AC power cords into the DC power supplies.

3. Using the 16V power supply, insert the DC connector into the “DC POWER” jack on the charging station.

4. Plug the AC power cord into an electrical outlet.

5. The blue power light on the charging station will glow to indicate it is ready to begin charging components.

6. Using the 24V power supply, insert the DC connector into the “DC INPUT” jack on the Redcat Access.

7. Plug the AC power cord into an electrical outlet.

8. The Redcat Access automatically powers on and the blue power light on the front panel will glow.

9. For operating instructions using the optional L14V battery pack for Redcat Access, see page 35.
3. CHARGE THE FLEXCAT COMPONENTS

Prior to full operation, all system components should be fully charged (at least 8 hours) to ensure optimum performance.

1. Insert all four pods into the charging cradle. Each pod’s charging light will turn red to indicate normal charging. When fully charged, they will turn green. For systems with 5-6 pods, use the charging cables to connect pods #5-6 into the charging jacks on the side of the charging station.

2. Insert the Flexmike(s)* into the appropriate smaller center slot. The blue microphone 1 or 2 light will blink for several seconds as it establishes a link, then turn solid. The charging light will turn red to indicate normal charging. When fully charged, it will turn green.

3. Insert the teacher remote(s)** into the appropriate charging slot. The charging light will turn red to indicate normal charging. When fully charged, it will turn green.

FOR SYSTEMS WITH 2 MICROPHONES AND REMOTES:

*If you have two Flexmikes, you will want to power them on to determine whether it is Microphone #1 or #2 (indicated by blue light), then place it in the appropriate charging slot.

**Check the serial number label on the back of the remote to determine whether a remote is set to Microphone #1 or #2, then place it in the appropriate charging slot.
4. POWER ON ALL COMPONENTS

1. REDCAT ACCESS: this will automatically power on when plugged into power and/or when a Flexmike is powered on.

2. SPEAKER PODS: locate the power switch on the bottom of all the pods. Switch to the ON position. The pod # light will light as will the blue power indicator on top.

3. FLEXMIKE: the microphone will power on when removed from the charger. The solid red light indicates the microphone is muted. Press to unmute the microphone, the light will turn blue.

4. TEACHER REMOTE: there is no power switch on this component, it stays ready for operation.

5. ENSURE ALL COMPONENTS ARE READY

1. SPEAKER PODS: the blue power light on top of the pod will turn solid after a few seconds to indicate it is ready for operation.

2. FLEXMIKE: the Teacher 1 or Teacher 2 light will turn solid blue to indicate it is ready for operation.

3. TEACHER REMOTE: press a pod # button to test. If the button lights, the remote is ready.
6. SET UP THE FLEXMIKE + EARBUD

Initial Setup

- Locate the earbud lanyard
- Hang the Flexmike on the lanyard opposite the magnetic clasp.

- Plug the earbud into the headphone connection on the Flexmike.
- NOTE: if you prefer to wear the earbud in your left ear:
  - Turn the lanyard around so the earbud goes up to your left ear.
  - Route the plug around the back side of the microphone to plug into the headphone jack.

Wearing the Flexmike + Earbud Lanyard

- The earbud can be worn in either ear depending on how the lanyard is connected to the Flexmike.
- Place the lanyard and microphone around your neck, connecting the magnetic clasps behind your neck.
- Adjust the lanyard so that the top of the microphone is at the collarbone.
- Insert the earbud into your ear
- If the earbud cable does not seem long enough to comfortably fit your ear, unwind it 2-3 coils.
7. DETERMINE PLACEMENT LOCATION OF THE SPEAKER PODS

The pods should be placed in the middle of student groups or learning stations as follows:

- Placed on a stable, flat surface
- Within 3-6 feet of all students in that group
- Top surface of the speaker should be clear with nothing set on top to ensure optimum sound quality and microphone pickup.
8. SETTING SYSTEM VOLUME LEVELS

To allow for maximum flexibility the Flexmike, pods and Redcat Access speaker all have independent volume controls. By default, all devices are set to the center position, which is optimal in most cases.

To set the proper volume for your classroom, place the microphone around your neck and take the following steps:

Flexmike Volume (Redcat Access and Pod speakers)
To adjust, use the up/down buttons on the Flexmike.

1. Select an individual pod and begin speaking in a normal voice.
2. The volume should be at a level that the kids seated around the pod can clearly hear, but not so loud that other nearby groups could hear.
3. Press the center button to turn on the Redcat Access Speaker and speak in a normal voice.
4. The volume should be at a level that the kids can clearly hear from the other side of the room. You should just barely be able to hear your own voice.

NOTE: at proper volume levels, there should not be any “feedback” or squealing from the speaker outside of 2-3 feet. If there is, turn the Flexmike volume down slightly.

Pod Sharing Volume
To adjust, use the Microphone Volume control on the Redcat Access.

5. Rapid press the pod #1 button followed by the center button to activate the pod #1 sharing function (the center and #1 button should both be lighted).
6. With the teacher’s Flexmike muted, begin speaking into pod #1 from a distance of 18-24”.
7. The volume should be at a level that the kids can clearly hear from the other side of the room. You should just barely be able to hear your own voice (it helps to have another person in the room to verify).
8. Adjust the volume on the Redcat Access up/down slightly as needed.

NOTE: check the pod sharing volume level at the pod nearest the Redcat Access to verify there is no “feedback” or squealing from the speaker. If there is, turn the volume down slightly.
SECTION 3:

DAILY OPERATION INSTRUCTIONS

1. Remove the pods from the charger and place them on the group tables.
   - The speaker pods will stay powered on while charging when the switch is left in the on position.
   - Note the location of the pod numbers.

2. Remove the Flexmike from the charger and put on.
   - The microphone will default to the Mute position, the microphone status light will turn to red.
   - Place the microphone around your neck and insert the earbud.
   - Press the power/mute button. The microphone status light will turn blue, indicating the microphone is active.

3. Remove the remote and begin instruction. Use the remote to:
   - Address the whole class
   - Instruct small groups
   - Redirect small groups
   - Monitor (listen only) small groups
   - Activate student group sharing
   - Adjust earbud volume
DAILY OPERATION CON’T

Using the remote:

<table>
<thead>
<tr>
<th>Function</th>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Class Instruction</td>
<td>Press center button</td>
<td>Activates Redcat Access speaker to distribute teachers voice to the entire class.</td>
</tr>
<tr>
<td>Pod Selection</td>
<td>Press #1-6</td>
<td>Connect to each individual student group pod. The pod # button will light and a tone will sound in the earbud when connected (1-2 seconds).</td>
</tr>
<tr>
<td>Small Group Monitoring</td>
<td>Press MUTE</td>
<td>Move from pod to pod to monitor (listen only) student groups. The MUTE button will light green and the pod button will light red to indicate the teacher’s microphone is muted. To unmute, simply press the MUTE button again.</td>
</tr>
<tr>
<td>Student Group Sharing</td>
<td>Press #1-6, then center button (rapid press)</td>
<td>Allows one student group to address the whole class. Both the center and pod # buttons will light and a tone will sound in the earbud when connected (1-2 seconds).</td>
</tr>
<tr>
<td>Disconnect</td>
<td>Press activated pod # again</td>
<td>Disconnects the transmission and turns any audio off. The pod # button or center button will go dark.</td>
</tr>
<tr>
<td>Teacher earbud volume</td>
<td>Press Vol UP/DOWN arrows.</td>
<td>Turns the volume to the teacher’s earbud up or down. There is an audible tone in the ear when pressing.</td>
</tr>
</tbody>
</table>

4. **Pod call button:**
   - Each of the pods is equipped with a call button students can press when they need assistance.
   - When the button is pressed, a tone sounds in the teacher earbud.
   - The corresponding pod # will blink on the remote, alerting the teacher which group needs assistance.
   - The light will continue to blink until the teacher selects that pod.
   - To clear multiple blinking lights: press center button twice (connect and disconnect from whole class mode).

5. **Return the components to the charging station for nightly recharging:**
   - For convenience, we recommend leaving the pods powered on. They are designed to charge normally in the ON position.
   - Place all components in their respective charging slots:
     - Pods: insert with charging contacts facing down.
     - Flexmike(s): use corresponding mic 1 or 2 center charging slot.
     - Remote(s): use corresponding mic 1 or 2 outside charging slot.
   - Charging lights will light - red = charging; green = fully charged.
   - The units will fully charge overnight.

NOTE: the blue link lights on the Flexmike(s) and pods will stay on to indicate the microphone number (1 or 2) and that they are ready for operation.
SECTION 4:

ADDITIONAL OPERATION INFORMATION

TIPS AND TRICKS TO SUCCESSFUL USE

Determining optimum placement of the pods

- Pods should be placed in the approximate center of the group.
- They can be placed on the center of a table or on the floor where the students are sitting.
- The microphone is designed to pick up students in a 360 degree radius, so it also operates best when in the middle of a group.

Managing equipment and charging

- Leave all components in the on position.
  - When you place them on the charger, they will charge as normal.
  - When you remove them from the charger to start the day, they will be fully charged and ready for operation.
- Assign students to manage the charging of the group speakers.
  - Have one assigned student remove it from the charger to start the day and place it back on the charger at the end of the day.

Determining proper volume levels

- This system is not designed to make the teachers voice louder, but to distribute it appropriately so it is heard clearly by the selected group of students or the whole class.
- The pods are designed to be used independently, so turning the volume up too loud can result in bleed-over to another group.
- Typical volume levels at a group speaker are about half of the maximum setting – approximately 12:00 on the dial.
- It should be loud enough that students in the desired group hear you as though you were speaking directly to them at a distance of 3 feet.
- The Redcat Access speaker should also be at a level that is not loud, but clear throughout the whole room. Typically 12:00 on the Redcat Access ‘Microphone Volume’ control is appropriate.
TIPS AND TRICKS TO SUCCESSFUL USE

Student group sharing
- Press #1-6, then center button (rapid press). This allows one student group to address the whole class. Both the center and pod # buttons will light and a tone will sound in the earbud when connected (1-2 seconds).
- To select another group to share with the class, simply press another pod #, followed quickly by the center button.
- For optimal voice pickup, students will likely need to lean in toward the group speaker to within about 24”.
- Volume level is adjusted using the Redcat Access “Microphone Volume” control. Level is optimum at the center point, but can be adjusted as needed. NOTE: if you turn that volume up or down, you will likely need to turn the volume on the Flexmike down or up to compensate.
- To avoid feedback between the pod and Redcat Access speaker, the nearest pod should be more than 6 feet away from the Redcat Access.

If your system is equipped with team-teaching
- Make sure to use the corresponding Flexmike and remote for microphone 1 and 2, indicated as follows:
  - Flexmike: microphone 1 or 2 light is on
  - Remote: microphone 1 or 2 sticker on the back of remote (above barcode)

USING OPTIONAL PODS #5-6

Flexcat can to operate with up to 6 speaker pods. The additional pods can be purchased together with the main system or can be added later.

1. Operation
- If speakers #5-6 are purchased together with the original system, they will already be paired together and operate just as speakers #1-4 do.
- To select the speakers, simply press the #5-6 buttons on the remote. (See Section 3 for daily operation instructions).
- If the speakers were purchased at a separate time from the rest of the system, they will need to be linked to the Redcat speaker. Please follow the website link on the card provided with the additional pods.

2. Charging
- Pods #5-6 charge via cables connected to the base station.
- Connect the included charging cable(s) to the CHARGING OUTPUT jack(s) on the base station.
- Connect the other end of the jack to the CHARGE input jack on the pod.
- The charging light on the pod will turn RED to indicate charging. It will turn GREEN to indicate the unit is fully charged.
MULTIMEDIA AUDIO INTEGRATION

The Redcat speaker has one audio input connection with volume control for connecting to classroom multimedia audio sources (computer, MP3, tablet, smart phone, DVD, etc.). When connected, that audio source is amplified and distributed to the whole classroom from the Redcat speaker.

1. **Connect an audio cable** from your computer (or other device) into the audio input connection on the Redcat Access speaker.

2. **Play the audio file** on the computer.

3. **Adjust the audio input volume on the Redcat Access** as needed (generally 12:00 is an appropriate nominal level).

4. **Fine-tune audio levels** using the volume on the computer (or other audio source) as needed.
MULTIMEDIA AUDIO INTEGRATION CONT’D

5. Quick connection + multimedia sharing with individual student groups
   • For a fast, temporary connection to a portable audio device like an (MP3, tablet, smart phone, etc.) connect the audio device into the audio input on the Flexmike.
   • Connecting to the Flexmike also allows the teacher to share that audio with specific groups.
   • Play the audio file on the audio device, adjusting the volume as needed.
   • Select pod # 1-6 on the teacher remote to direct that audio to a specific group. Press the center button to share with the whole class.

NOTE: the internal Flexmike microphone will be deactivated when plugged into an audio source.

TIP: if you have a team-teaching system (2 Flexmikes and 2 remotes) you can send audio to one group (using Teacher 2 Flexmike) while talking to another group (make sure to use the corresponding Teacher 2 remote to direct the multimedia).
WALL-MOUNTING REDCAT ACCESS

1. Level template and tape to wall
2. Mark position of drill holes on wall
3. Drill pilot holes
4. Insert anchors
5. Remove feet from Redcat Access and place over anchors
6. Insert and secure screws through the Redcat Access feet into the anchors
7. If using optional security bracket, mount on wall using the provided screws and anchors
8. Slide the Redcat Access onto the wall mounted feet
OPTIONAL WALL/POWER SUPPLY BRACKET INSTALLATION

1. Hold bracket to the wall and ensure that it is level
2. Mark position of the 3 drill holes on wall
3. Drill pilot holes
4. Insert anchors
5. Insert and secure screws through the bracket into the anchors

![Bracket installation diagram]

6. Slide the Redcat Access onto the wall-mounted bracket inserting the bracket tabs into the wall mount slots.
7. Place the power supply and power cord into the bracket.

![Top View of Redcat Access]

8. Insert the DC connector into the ‘DC INPUT’ connector on the Redcat Access and plug the other end into an electrical outlet. Use the slot on the end of the bracket to hold the power cord in place.
9. Use the tabs on the back of the Redcat Access for cable management and strain relief.
ADDING OPTIONAL SECURITY BRACKET TO POWER SUPPLY BRACKET

1. Complete steps 1 - 5 above.
2. Before sliding the Redcat Access onto the bracket, slide the security bracket halfway onto the wall mounting slots.

3. Continue with steps 6 - 9.
4. After the Redcat Access is in place, hold the top of the Redcat Access and push the security bracket into the slot until you hear it ‘click’ in place.

NOTE: If the Redcat Access needs to be removed, use a small flat blade screwdriver to pry the security bracket toward the wall and out of the slot on the back of the Redcat Access. Lift the Redcat Access off the power supply bracket.
MEDIA CONNECTOR CONTROLS AND CONNECTIONS

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 sound.

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 Redcat Access 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 like Lightspeed’s 370 Personal FM System.

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.
The Media Connector can be used as the primary volume control for the 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 USB power adaptor. Also, 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 Redcat Access.

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

NORMALIZING AUDIO SOURCE VOLUME LEVELS

Use the Media Connector as the master audio volume control for the classroom. 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 classroom.

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.
The Media Connector is designed to integrate multiple audio sources quickly and easily.
SECTION 5:

MAINTENANCE & TROUBLESHOOTING

REGISTRATION OF REPLACEMENT OR ADDITIONAL EQUIPMENT

In order for all system components to operate and communicate with one another, they must be registered to the Redcat Access speaker. When purchased as a complete system, major components (Flexmikes, remotes, and pods) will be pre-registered and ready for use, so there is no need to manually register anything.

In the event a component needs to be replaced or an additional component is added down the road, it will need to be registered. Please refer to the Registration Guide provided with the new components or on the Lightspeed website at www.lightspeed-tek.com/accessregistration.

BATTERY REPLACEMENT

Overview of batteries

The pods, Flexmike and remote contain rechargeable battery packs that require daily charging. The battery packs are covered under warranty for 1-year but have a useful life of about 2+ years before they should be replaced. The battery packs must be purchased directly from Lightspeed, but can easily be installed by the user.

Replacement of battery pack in speaker pod

1. Use a screwdriver to remove the screw and the slide the battery door open.

2. Slide the battery pack out and disconnect the cable.

3. Take the new battery pack, connect the cable and insert the battery pack into the compartment.

4. Slide the cover back on and tighten the screw to secure the door.

5. Place the pod in the charging station to fully charge the new battery pack.

6. The charging light will turn red. It will turn green when fully charged (up to 10 hours).
BATTERY REPLACEMENT CONT’D

Replacement of battery pack in Flexmike.

1. Slide the battery door open.
2. Disconnect the cable and slide the battery pack out.
3. Take the new battery pack, connect the cable as shown and insert the battery pack into the compartment.
4. Slide the cover back on and snap into place.

5. Place the Flexmike in the charging station to fully charge the new battery pack.
6. The charging light will turn red. It will turn green when fully charged (up to 10 hours).
BATTERY REPLACEMENT CONT’D

Replacement of battery pack in remote

1. Use a screwdriver to remove the screw and the slide the battery door open.

2. Disconnect the cable and slide the battery pack out.

3. Take the new battery pack, connect the cable as shown and insert the battery pack into the compartment.

4. Slide the cover back on and tighten the screw to secure the door.

5. Place the remote in the charging station to fully charge the new battery pack.

6. The charging light will turn red. It will turn green when fully charged (up to 10 hours).
OPTIONAL BATTERY PACK FOR REDCAT ACCESS

ADDING A BATTERY PACK (Part # L14V) TO THE REDCAT ACCESS

1. Find and open the battery compartment by squeezing together the tabs located on each side of the compartment door. Discard door.

2. Place the battery pack into the compartment by squeezing together the tabs on either side of the battery pack and inserting it into the compartment. Ensure that the connection on the battery pack matches up with the connection in the battery compartment on the back of the Redcat Access.

3. Ensure that the battery pack snaps firmly into the Redcat Access.

4. The Redcat Access will automatically power on when battery pack is inserted properly.

5. If Redcat Access has been powered down, press the ON/OFF button to power on the unit. The front panel POWER light will glow blue.

USING REDCAT ACCESS WITH BATTERY PACK

1. When Redcat Access is in use with the battery pack, the POWER light will blink red if battery is low.

2. Charge battery pack by plugging the Redcat Access into the 24V / 1.75A power supply.
   - If Redcat Access is turned on, the POWER light will turn red for 2 seconds when power supply is first plugged in, and then turn solid blue.
   - The POWER light will be solid red while charging if Redcat Access is turned off. The light will turn green when charging is complete.

3. Redcat Access will continue to operate while battery pack is being charged.

4. When Redcat Access is being charged while turned on, you can check charging status by pressing the ON/OFF button. The POWER LED will glow green for a fully charged battery and red to indicate more charge is necessary. The ON/OFF button must be pressed again to turn Redcat Access back on.

5. When Redcat Access is powered by the battery pack only, it can be turned off completely by pushing the ON/OFF button. To help maintain battery life, it will automatically turn off after 2 hours of inactivity.

6. When Redcat Access is powered by battery pack only, it cannot be turned on again by Flexmike, Sharemike or Media Connector. The ON/OFF button must be pushed.

7. It is not necessary to unplug the power supply for every day use.
**TROUBLESHOOTING**

**Note:** Many 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:** low battery condition.

**SOLUTION:** check the batteries and ensure proper charging.

- Confirm batteries are properly charged each night. Full charging can take up to 10 hours.
- When placing a component in a charger, ensure the red charging light turns on. The green charging light will turn on when a full charge is reached.
- Regardless of battery life, the red light will turn on for 20-30 minutes to check status. When battery is full, the light will turn green at some time after that.
- Fully charged batteries will operate properly throughout a full school day for a period of at least 1-2 years. If the batteries are older, they may need to be replaced.

**PROBLEM:** No audio from a speaker pod when selected.

**SOLUTION:** follow these steps to isolate and eliminate the problem.

- When the pod # button is selected on remote, ensure it turns green.
  - If it does not turn green, this indicates the pod or other component is either not on or not properly registered.
  - If the button turns red, this indicates the microphone is muted. Press the mute button on the remote.
- Ensure speaker pod is on and ready for use as indicated by a solid blue power light.
  - Power the unit on by sliding the switch on the bottom of the pod.
  - Try turning the speaker off, then on again and wait up to 30 seconds for it to properly link.
- Ensure the group speaker volume is set to a nominal level. If it is turned all the way down, there will be no audio.
- Ensure the Flexmike is on and ready for use as indicated by a steady blue status light (#1 or #2).
  - If the microphone status light is blinking that indicates the Flexmike is not linked up to the Redcat Access. Ensure the Redcat is plugged in to power.
  - If the microphone status light is red, that indicates the Flexmike is muted. Press the mute button on the remote or Flexmike to unmute.
- Ensure the proper teacher remote is being used.
  - If there are 2 microphones with the Flexcat system, each Flexmike must be paired together with a specific remote, marked Teacher 1 or Teacher 2.
  - Check microphone status indicator light (1 or 2) is on. Ensure you are using the corresponding remote, marked Teacher 1 or Teacher 2 on the serial number label on the back.
1. Overview

2. Initial Set-up

3. Daily Operation

4. Additional Information

5. Maintenance & Troubleshooting

6. Safety & Specifications

TROUBLESHOOTING CONT’D

- Ensure teacher remote is working properly.
  - Press the center “Whole Class” button. It should be lighted green.
  - If it doesn't light, make sure the Redcat Access is plugged into power and the blue power light is on.
  - Ensure there is a corresponding green 1 or 2 ready light on the Redcat Access.
  - Ensure the batteries are fully charged. If the red battery low light is on, it can experience intermittent operation.

PROBLEM: Remote does not light or activate a speaker pod(s).

SOLUTION:

- Ensure the batteries have a charge. They should be charged nightly.
  - If the red low battery light is on, it can experience intermittent operation.
- Try pressing the center “Whole Class” button. It should be lighted green.
  - If this button lights, the remote has a battery charge and is properly linked up. The problem is likely with the pod or pods that do not activate, refer to the “No audio from speaker pod” troubleshooting section.
  - If this button doesn't light, make sure the Redcat Access is plugged into power.
  - Check to see that there is a corresponding green 1 or 2 ready light on the Redcat Access.
  - Check to see that the Flexmike is powered on and linked, as indicated by a solid blue light. If that light does not go solid blue, try powering the Flexmike and Redcat Access off, then on again.
  - If the microphone still does not link up (turn solid blue), it may need to be re-registered to the Redcat Access. Please refer to the Flexcat registration guide on the Lightspeed website.
  - If there is a second remote, check to see if that operates correctly.

PROBLEM: Feedback or squealing from pod speaker

SOLUTION:

- Make sure the teacher’s Flexmike is 2 feet or more away from the pod. Operation at very close distance can cause feedback.
- Try turning the volume down on the bottom of the pod. Typical volume levels should be around the mid-point (12:00 on the dial).
- Turn the volume on the Flexmike down 1-2 clicks.
PROBLEM: Feedback or squealing from Redcat speaker

SOLUTION:

- Make sure the teacher’s Flexmike is 2-3 feet or more away from the Redcat. Operation at very close distance can cause feedback.
- Make sure the nearest pod operating in student sharing mode is at least 6 feet away from the Redcat. Operation at very close distance can cause feedback.
- Mute the teacher’s Flexmike. If the feedback or squealing persists, the feedback is being caused by a pod that is in student sharing mode.
  - If the feedback or squealing goes away, the feedback is being caused by that Flexmike, likely due to the volume level being too high. Press the volume down button on the Flexmike 1-2 clicks.
  - If the feedback or squealing persists, the feedback is being caused by a pod that is in student sharing mode. Turn the “Microphone Volume” on the Redcat speaker down slightly. (NOTE: you may need to press the UP volume on the Flexmike up 1-2 clicks to compensate).

PROBLEM: Cannot hear students in monitor mode

SOLUTION:

- Ensure the desired pod is selected as indicated by a green or red light on the pod # button on the remote.
- Make sure the earbud volume is turn up loud enough to hear by pressing the Vol UP button on the remote (Vol button on left).
- Make sure the earbud is fully plugged into the headphone jack on the Flexmike.
- Select another pod to see if you are able to hear audio from that pod. If you hear audio, the issue is with one specific pod.
- Turn the power of the problematic pod off, wait several seconds, then on again. Let the pod link back up again as indicated by a solid blue light, then try selecting that pod again.

PROBLEM: Student sharing volume is too loud or too quiet

SOLUTION:

- This is designed to work with a student speaking within about 18-24” of the pod microphone. If the volume is too quiet from a further distance, the student should move the pod closer.
- To adjust the student sharing volume, turn the “Microphone Volume” on the Redcat up or down. NOTE: this may cause you to adjust the volume on the Flexmike up or down to compensate.
SECTION 6:

WARRANTY, SAFETY & SPECIFICATIONS

THREE-YEAR LIMITED WARRANTY

Lightspeed’s Flexcat Group Audio System is covered under warranty against malfunction due to defects in materials and workmanship for a period of THREE (3) YEARS, beginning at the date of the purchase invoice. If such malfunction occurs, the product will be repaired or replaced (at Lightspeed’s option) without charge during the warranty period.

Lightspeed’s Warranty Exchange Program applies to Flexcat systems and components within the warranty period indicated below. If any system component has an issue that requires service, a refurbished replacement will immediately be sent to the customer to minimize downtime. Customers will receive the exchange product(s) or component(s) within 2-3 days. A prepaid return label will be included with exchanged products so original malfunctioning equipment can be returned to Lightspeed. Any exchanged equipment will remain covered under the original three (3) year warranty.

1. Warranty on Flexcat speaker pods, charging station and handheld remote components is THREE (3) YEARS.
2. Warranty on Redcat Access and Flexmike components is FIVE (5) YEARS.
3. Warranty on earbud lanyard, Lightspeed NiMH rechargeable battery packs and other cables and minor accessories is one (1) year.
4. Prepaid shipping label provided by Lightspeed for warranty repairs within the United States. Customers outside the U.S. should refer to the Lightspeed website (www.lightspeed-tek.com) for warranty repair instructions.
5. 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 warranty. 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

1. Overview
2. Initial Set-up
3. Daily Operation
4. Additional Information
5. Maintenance & Troubleshooting
6. Safety & Specifications

CERTIFICATIONS

This product conforms with the essential requirements of the following European Union Directives: 2004/108/EC Electromagnetic Compatibility (EMC) and 2006/95/EC Low Voltage Directive (LVD).


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).

CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

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.
PRÉCAUTIONS DE SÉCURITÉ ET CERTIFICATIONS

ATTENTION
RISQUE D’ÉLECTROCUTION
NE PAS OUVRIR

CONFORMÉMENT AUX NORMES D’INSTALLATION APPLICABLES,
CE PRODUIT DOIT ÊTRE INSTALLÉ PAR UNE PERSONNE FAMILIARISÉE AVEC LA CONCEPTION ET LE FONCTIONNEMENT DU PRODUIT ET CONSCIENTE DES RISQUE ENCOURS.

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 LIGHTSPEED 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).

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).

Utilisez uniquement la batterie Lightspeed fournie.
SAFETY WARNINGS AND CERTIFICATIONS

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

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 present 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 comprennent une marge de sécurité importante destinée à assurer la sécurité de toutes les personnes, indépendamment de l’âge et de la santé.
SAFETY WARNINGS AND CERTIFICATIONS

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
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, TCQ2, DRQ

Model Numbers: LSRCA 1881, LSFM 1881, FCP 1881, FCCS, FCHRC, FCHRCB, LSMCA 1881, LSSM 1881, LSTCA 1881, LSAL 1881, LS955 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 301489-1-6
    - EN 301489-1-17
    - EN 50371 (2002)
    - EN 50385 (2002)
    - EN 300 328
    - 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: 03/21/2016

P/N: 085-0013-04

LIGHTSPEED TECHNOLOGIES / 11509 SW HERMAN ROAD / TUALATIN, OR 97062 / 800.732.8999 / WWW.LIGHTSPEED-TEK.COM
SYSTEM SPECIFICATIONS

SPEAKER PODS (1-6)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery power</td>
<td>6V NiMH battery pack</td>
</tr>
<tr>
<td>Battery life</td>
<td>10+ hours (fully charged)</td>
</tr>
<tr>
<td>Power output</td>
<td>5 Watts per speaker</td>
</tr>
<tr>
<td>Integrated Speaker</td>
<td>2” balanced mode radiator (BMR)</td>
</tr>
<tr>
<td>Integrated microphone</td>
<td>Omni-directional electret</td>
</tr>
<tr>
<td>Audio output</td>
<td>3.5mm with volume control</td>
</tr>
<tr>
<td>Battery charging</td>
<td>2 contacts for cradle charging + 16V/0.3A DC input</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Access Technology (1.9 GHz)</td>
</tr>
<tr>
<td>Wireless range (from Redcat Access)</td>
<td>up to 200 ft (60 m); up to 100 ft (30 m) with walls</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>8.5” x 5” x 3.5” (216 x 127 x 89mm)</td>
</tr>
<tr>
<td>Weight (with battery pack)</td>
<td>1.4 lbs (0.64 kg)</td>
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</table>

REDCAT ACCESS SPEAKER

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power output</td>
<td>20W</td>
</tr>
<tr>
<td>Acoustic frequency response</td>
<td>120 Hz - 13 kHz</td>
</tr>
<tr>
<td>DC power Input</td>
<td>24V / 1.75A</td>
</tr>
<tr>
<td>Total harmonic distortion</td>
<td>&lt;1% @ 10W</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Access Technology (1.9 GHz + RF4CE)</td>
</tr>
<tr>
<td>Tone control</td>
<td>1 bass/treble control</td>
</tr>
<tr>
<td>Audio input</td>
<td>3.5mm stereo w/ volume control</td>
</tr>
<tr>
<td>Audio output</td>
<td>3.5mm stereo w/ volume control</td>
</tr>
<tr>
<td>Integrated speaker</td>
<td>Exciter technology, flat-panel speaker</td>
</tr>
<tr>
<td>Audio Link indicators</td>
<td>2 indicators for Flexmike 1 and 2</td>
</tr>
<tr>
<td>Device Registration</td>
<td>Push button for pod(s), Flexmike(s), and remote(s)</td>
</tr>
<tr>
<td>Optional battery power</td>
<td>14.4V lithium ion battery pack</td>
</tr>
<tr>
<td>Battery life</td>
<td>8 hours (fully charged)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>16” x 9” x 1.75” (406 x 241 x 45mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.9 lbs (1.3 kg) without battery pack</td>
</tr>
</tbody>
</table>
SYSTEM SPECIFICATIONS CONT’D

FLEXMIKE (1-2):
- Description: Pendant-style microphone
- Earbud lanyard: magnetic clasp with integrated earbud
- Wireless communication: Access Technology (1.9 GHz)
- Audio distortion: <1%
- Integrated microphone: Uni-directional electret
- Earbud output: 3.5mm
- Audio input: 3.5mm
- Volume control: +/- 6 dB
- Battery power: 2.5V NiMH battery pack
- Battery life: 8 hours (fully charged)
- Charging: 2 contacts for cradle charging
- USB connection: type Micro-B for charging and audio
- Power: on/off switch
- Registration: push button for registration with Redcat Access
- Dimensions (L x W x H): 2.9” x 1.1” x 1.0” (74 x 28 x 25mm)
- Weight: 1.8 oz (51 g)

HANDHELD REMOTE (1-2):
- Battery Power: 2.5V NiMH battery pack
- Cradle charging: 2 contacts for cradle charging
- Wireless communication: Access Technology (RF4CE)
- Controls: Pod selection 1-6; whole class speaker selection; microphone mute; earbud volume
- Registration: push button and LED for registration with Redcat Access
- Dimensions (L x W x H): 4.25” x 2.0” x 1.0” (108 x 51 x 25mm)
- Weight: 3.4 oz (98 g)

CHARGING STATION
- DC power input: 16V / 2.0A
- Cradle charging: 4 speaker pods; 2 Flexmikes; 2 remotes
- DC charging ports: 2 additional speaker pods with cable
- USB charging: 5V USB charging output
## MEDIA CONNECTOR

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Power</td>
<td>5V mini-B USB connector</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Access Technology (1.9 GHz + RF4CE)</td>
</tr>
<tr>
<td>Tone control</td>
<td>1 bass/treble control</td>
</tr>
<tr>
<td>Audio input</td>
<td>3.5mm stereo (x4) w/ master volume</td>
</tr>
<tr>
<td>Audio output</td>
<td>3.5mm stereo (X2) mixed w/ volume control</td>
</tr>
<tr>
<td>Audio Link indicator</td>
<td>1 LED on front panel</td>
</tr>
<tr>
<td>Registration indicator</td>
<td>1 LED on back panel</td>
</tr>
<tr>
<td>Device Registration</td>
<td>Push button for Redcat Access</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>7.6” x 5” x 1.13” (193.04 x 127 x 28.7mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>9.6 oz. (272.16g)</td>
</tr>
</tbody>
</table>