



FLEXCAT DETAILED SPECIFICATIONS

FLEXIBLE GROUP AUDIO SYSTEM

1.1 OVERALL SYSTEM DESCRIPTION

- A. The system must have specifications and features that are equivalent to the Lightspeed FLEXCAT Group Audio System including the following:
1. Up to 6 student group speakers with wireless 2-way audio communication.
 2. Handheld remote control to direct communication with small student groups.
 3. Teacher headset enables direct instruction and audible monitoring of student group interaction from anywhere in the room.
 4. Highly portable, battery powered student group speakers provide flexibility to be positioned anywhere in the room.
 5. Student group speakers deliver high speech intelligibility of the teachers voice.
 6. Student group sharing directly from the group speakers, allowing students to clearly be heard by the whole class.
 7. Wall-mounted flat-panel classroom speaker with exciter technology to ensure high speech intelligibility and even distribution throughout the whole classroom.
 8. Speaker output on base station to power classroom speaker for whole group instruction.
 9. One audio input on the belt-pack allows the teacher to connect and direct multimedia audio to an individual student group on the fly.
 10. One audio input on the base station allow the teacher to connect and direct multimedia audio to an individual student group.
 11. One audio output on the base station to interface with existing audio system for whole group instruction.
 12. Charging base station organizes and charges up to 6 students group speakers, 2 belt-packs and 2 remotes.
 13. Team-teaching capability allows both teachers to work with individual groups.
 14. Charging base station can be located on a tabletop anywhere in the room.
- B. The system shall carry a standard warranty equivalent to the Lightspeed 3-year Warranty.

1.2 OWNER INSTRUCTION

- A. Owner's Instruction: user-training will be performed by the manufacturer's local representative. The training will include system operation, simple troubleshooting guidelines, and incorporating the flexible group audio system into teaching styles. The manufacturer will also provide additional training in trouble-shooting techniques and product return procedures to one specified person per campus.
- B. Instruction materials and detailed Owner's manual shall be provided to cover operational and basic maintenance procedures.

1.3 FLEXIBLE GROUP AUDIO SYSTEM SPECIFICATIONS

- A. Base Station:
1. DC Power Input: 16V / 2.0A
 2. Cradle Charging: 4 group speakers; 2 teacher belt-packs; 2 handheld remotes
 3. DC Charge out: 16V / 0.3A for 2 additional group speakers
 4. Audio Input: 3.5mm stereo
 5. Audio Output: 3.5mm



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6. Speaker Output: 2-pin euro-block (12 W RMS) with volume control
7. Wireless communication: 1.9 GHz for audio connections; RF4CE for control signals
8. Power switch with LED Indicator
9. Audio Link indicators: 6 LED for link to group speakers 1-6; 2 LED for link to teacher belt-packs 1-2
10. Device Registration: push button for speaker(s), belt-pack(s), and remote(s)
11. Dimensions (L x W x H): 15.75" x 12" x 9.2"

B. Classroom Speaker:

1. Description: wall-mounted flat-panel speaker exciter technology
2. Panel size: 16.25" x 8.25"
3. Frequency Response: 100 Hz – 20 kHz \pm 6dB
4. Impedance: 8 Ω
5. Power Handling: 15 W
6. Enclosure: anodized metal frame

C. Group Speakers:

1. Battery Power: 12V NiMH battery pack
2. Battery run time: 8+ hours
3. Audio output power: 5 Watts per speaker
4. Integrated Speaker: 2" balanced mode radiator (BMR)
5. Integrated Microphone: omni-directional electret
6. Wireless communication: 1.9 GHz
7. Cradle charging: 2 contacts for cradle charging
8. DC charging input: 16V / 0.3A for alternate charging cable
9. Registration: push button and LED for registration with base station
10. Dimensions (L x W x H): 8.5" x 5.0" x 3.5"

D. Teacher Belt-Pack:

1. Battery Power: 2.5V NiMH battery pack
2. Battery run time: up to 8 hours
3. Cradle charging: 2 contacts for cradle charging
4. Wireless communication: 1.9 GHz
5. Headset Input: 2.5mm TRS
6. Audio Input: 3.5mm stereo
7. Power: on/off switch
8. Registration: push button and LED for registration with base station
9. Dimensions (L x W x H): 2.75" x 2.0" x 1.0"

E. Handheld Remote:

1. Battery Power: 2.5V NiMH battery pack
2. Cradle charging: 2 contacts for cradle charging
3. Wireless communication: RF4CE
4. Controls: Group speaker selection 1-6; Microphone mute; Earpiece volume
5. Registration: push button and LED for registration with base station
6. Dimensions (L x W x H): 4.25" x 2.0" x 1.0"



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F. Under-ear Headset

1. Description: under-the-ear headset with boom microphone and in ear piece
2. Connector: 2.5mm
3. Microphone: uni-directional boom microphone
4. Controls: microphone mute and earpiece volume up/down

G. Over-ear Headset

1. Description: over-the-ear headset with boom microphone and in ear piece
2. Connector: 2.5mm
3. Microphone: uni-directional boom microphone
4. Controls: none on microphone

H. The flexible group audio system shall be manufactured using lead-free processes and free of other materials harmful to the environment (RoHS compliant).