

User's Guide

AudiSee

AudiSoft™ Technologies Inc.

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THE AUDISEE SYSTEM

The AudiSee™ system allows deaf and hearing-impaired students to see their teacher's face at all times while using existing hearing abilities to the greatest degree possible. The AudiSee system takes advantage of the fact that combined audio and visual cues provide at least 30% more information to students than audio cues alone.

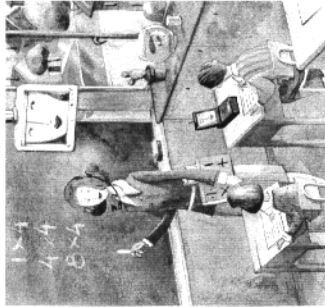
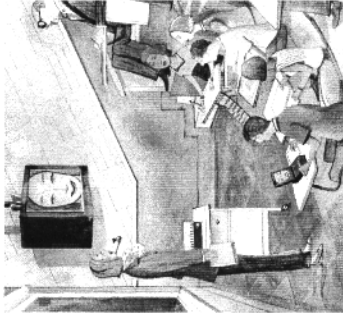
This guide is written for users. It explains how to operate AudiSee's different modules. Some sections have been written specifically for audiologists.

The system is simple. The teacher wears a headset equipped with a camera and microphone. The image is displayed via wireless transmission on a small monitor on the student's desk, on a larger monitor in front of the class, or on a computer screen. Sound is transmitted directly to the student's FM system.

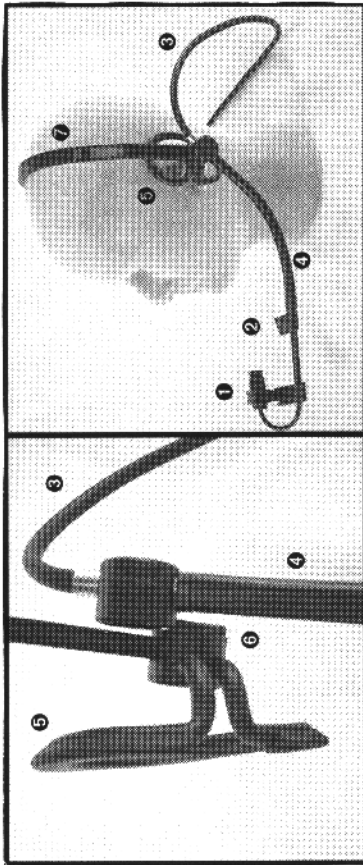
The AudiSee system benefits both student and teacher.

AudiSoft™ Technologies' system can also be used in conferences, again providing many benefits for both speaker and participant.

The following table presents the different components required for your preferred configuration.

Configuration	Required elements
Reception on the AudiSee monitor-receiver 	• AudiSee headset • AudiSee transmitter with battery • AudiSee monitor-receiver with battery • Battery charger • Carrying case
Reception on a television screen 	• AudiSee headset • AudiSee transmitter with battery • AudiSee receiver with an AC adapter • Battery charger • Television monitor (not included)
Reception on a portable computer 	• AudiSee headset • AudiSee transmitter with battery • AudiSee receiver with battery or AC adapter • Battery charger • Carrying case • Personal computer with video capture card (not included)

1. THE HEADSET-CAMERA



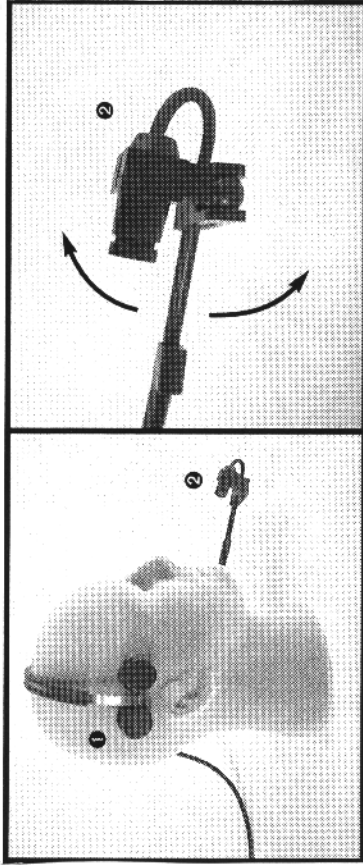
The headset-camera captures the teacher's face and voice via the camera ❶ and microphone ❷. It is connected by wire ❸ to the transmitter.

a) Assembling the AudiSee headset-camera:

The arm ❹ may have been detached from the headset for transportation or storage purposes. To assemble it, hold the junction piece located close to the ear contour ❺ and slide the arm down along the connection axis ❻ designed specially for this purpose.

b) Using the AudiSee headset-camera:

1. Place the ear contour ❺ behind the left ear while ensuring the ear remains unobstructed. The ear contour is designed to fit around the ear and ensure maximum comfort for the person wearing the headset.
2. Adjust the extendable band ❷ from bottom to top so it rests lightly on top of the head. It is important for the band to be well positioned on the center of the head to ensure optimum headset stability.



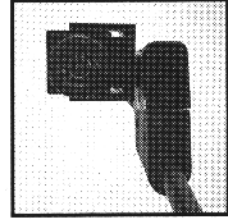
3. The support pads ❶ should be located just above the right ear.
4. The camera ❷ can pivot in all directions. Position the camera so it points to a spot between the nose and mouth. When the camera is positioned correctly, the student should be able to see most of the teacher's face, from the bottom of the chin to the middle of the forehead.

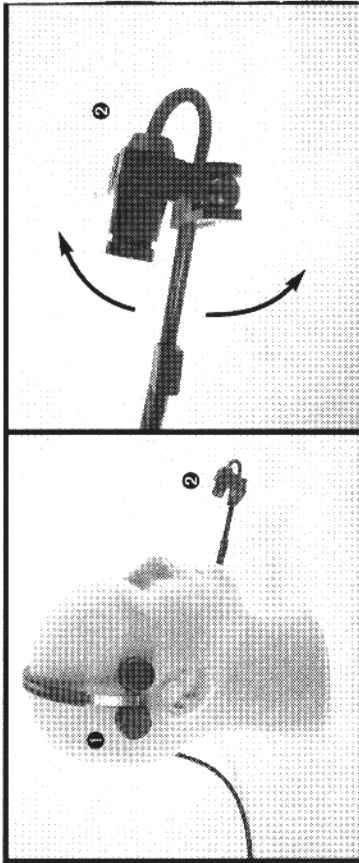


You don't need to adjust the camera's focus. AudiSoft has made the adjustment during production.



It is important to place the camera perpendicular to its arm to ensure that students get all the information.





c) Microphone calibration by an audiologist:

If necessary, an audiologist can couple the microphone **1**. **AudiSoft Technologies** has designed a simple mechanism for quickly removing the microphone to make any required adjustments.

1. Remove the screw from the microphone's support piece **2** using the screwdriver provided with the device.
2. Remove the microphone **1** from the support piece.
3. Gently pull the microphone to free the wire **3** from its protector **4**.

To replace the wire:

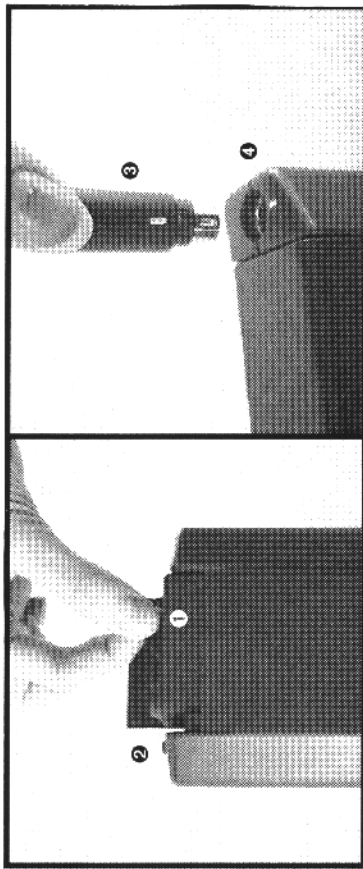
4. Insert the wire **3** into its socket **4** using your finger.



Do not use the screwdriver to reinsert the wire. You might damage the wire, affecting the system's sound quality.

5. Replace the microphone **1** in the support piece **2** and screw it into place.

2. THE AUDISEE TRANSMITTER



The transmitter is connected to the headset via a wire. The transmitter is worn on the teacher's belt. A battery ❶ feeds both the camera and the audio/video transmitter.

a) Inserting battery into the AudiSee transmitter:

1. Open the transmitter's battery case ❷.
2. Insert the battery ❶ into the receptacle.
3. Make sure the battery is properly positioned inside the receptacle.
4. Close the case by pressing firmly on the lid.



Is the transmitter battery fully charged?

b) Connecting the headset to the AudiSee transmitter:

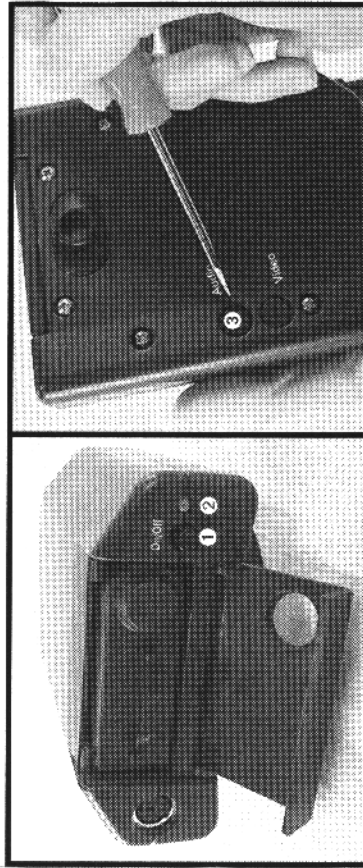
Plug the headset wire ❸ into the socket ❹ located on the top of the transmitter. Align the white dots on the plug and the socket.



Is the headset-camera wire well connected to the transmitter socket?



Disconnect the AudiSee headset wire by pulling only on the plug — Do not pull on the wire!



c) Activating the AudiSee transmitter:

Press the ON button ❶ to activate the transmitter. The indicator light (LED) ❷ should illuminate. The light will change color as the battery loses its charge.

Color		Time remaining
Green	Fully charged	About 7 hours
Orange	Medium charge	Less than an hour
Red	Weak charge	Less than 15 minutes

d) Adjusting the AudiSee transmitter's audio channel and compatibility with FM systems:

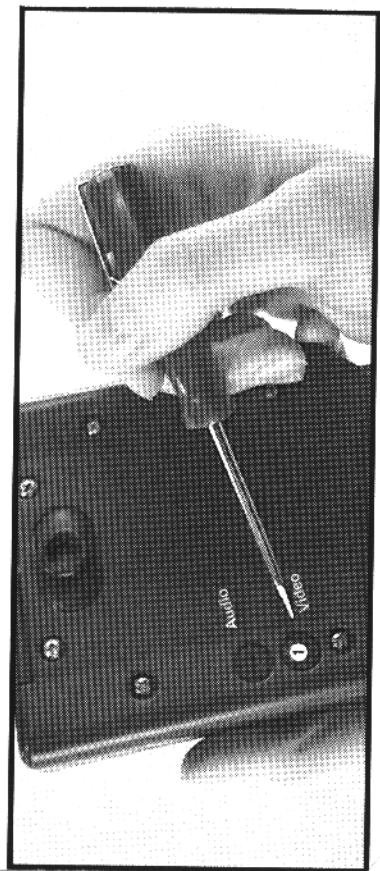
Select the audio channel using the rotating dial ❸ and the screwdriver provided with the device. Three channels are available. These channels are compatible with most conventional FM systems. Refer to the correspondence table (see page 16).



The AudiSee transmitter, the student's FM system and the AudiSee monitor-receiver must be set to the same channel.



The AudiSee transmitter can be used with a variety of FM systems or monitor-receivers as long as they are all set to the same channel.



e) Adjusting the video channel on the AudiSee transmitter:

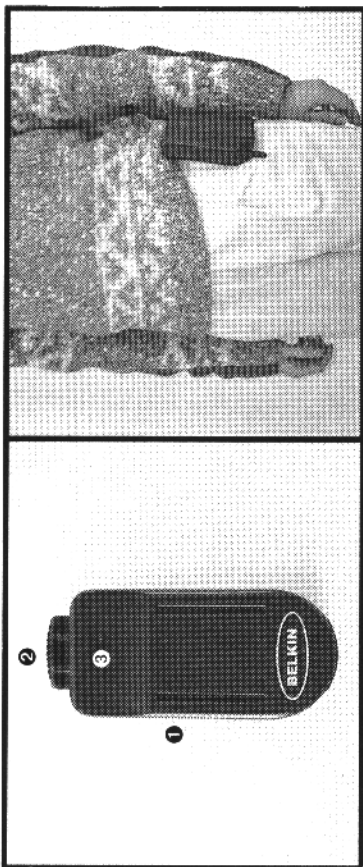
Select a video channel using the rotary dial ❶ and screwdriver provided with the device. Two channels are available, A and B.



Both the AudiSee transmitter and the AudiSee monitor-receiver must be set to the same channel.



The transmitter can be used with other monitor-receivers as long as they are all set to the same video channel.



f) Fastening and unfastening the AudiSee transmitter clip:

To fasten the clip **1**, slide the transmitter hook into the clip. Then attach the clip to the belt. You can use a conventional belt or the AudiSee elasticized belt provided with the system.

If you need to unfasten the clip from the transmitter, simply press the release button **2** on the top of the clip, then slide the transmitter hook toward the top of the clip.



The clip is attached to the transmitter when the device is delivered.



The clip works like a clothespin: open it by squeezing firmly on the open ends **3**.

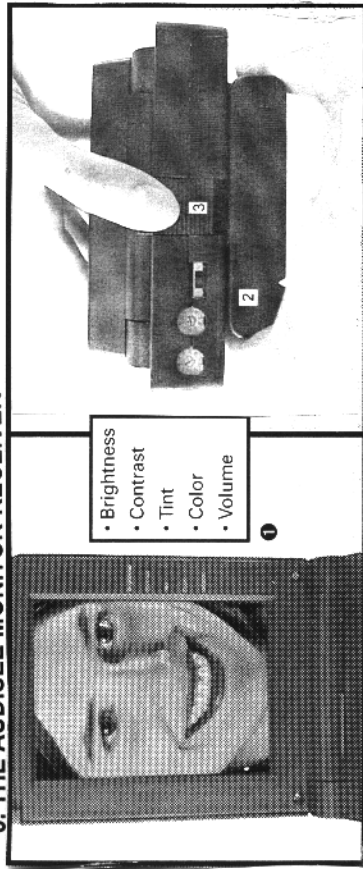
g) Wearing the AudiSee transmitter:

Wear the transmitter on your left side for optimal signal transmission.



For ease of movement, run the headset wire along the teacher's back, behind the shoulder and arm, and connect it to the transmitter.

3. THE AUDISEE MONITOR-RECEIVER



The AudiSee monitor-receiver is placed on the student's desk, showing the teacher's face on a small screen **1**. A battery **2** powers the monitor-receiver.

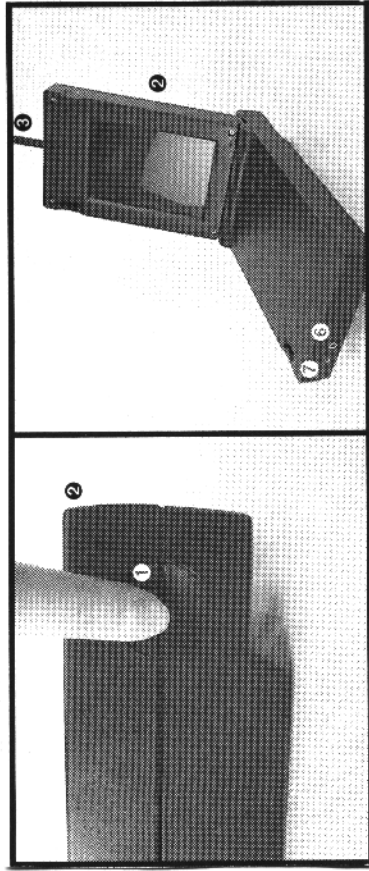
a) Inserting the battery:

Insert the battery **2** (slide panel towards the bottom) into the receptacle at the back of the monitor-receiver and push it firmly into place. Make sure the battery-holding mechanism **3** is properly engaged.

Removing the battery: Slide the battery-holding mechanism **3** upwards. Pull the battery **2** out of the receptacle.



Make sure the battery is charged first.



b) Using the AudiSee monitor-receiver:

1. Open the monitor-receiver by pressing the safety button **1** on the side of the device. Gently raise the flat screen **2**.
2. Raise the antenna **3** for better reception.
3. Press the ON button to activate the monitor-receiver.
4. Press OFF to turn it off.

The indicator light (LED) should illuminate. The light will change color as the battery loses its charge.

Color		Time remaining
Green	Fully charged	About 7 hours
Orange	Medium charge	Less than an hour
Red	Weak charge	Less than 15 minutes

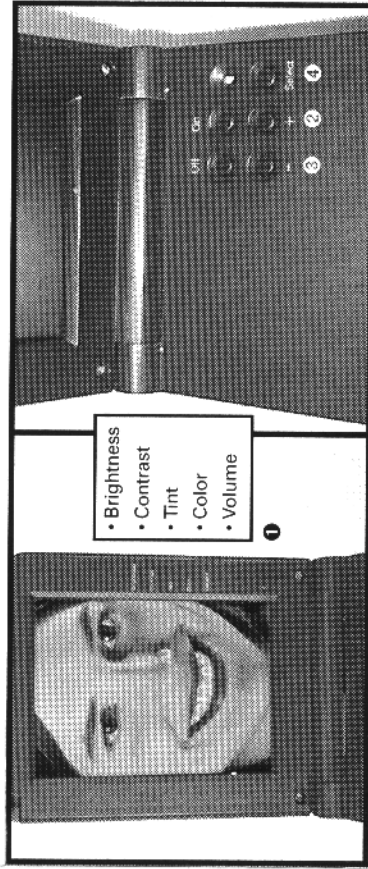
c) Using the audio outputs:

The monitor-receiver is equipped with two audio sockets located at the front of the device.

3.5-mm socket **6**: Allows connection to conventional headphones (Walkman style).

2.5-mm socket **7**: Allows connection to hearing aids.*

* An extension can be ordered from AudiSoft Technologies.



d) Adjusting the monitor-receiver screen:

Several adjustments can be made to the image **1** on the monitor-receiver. Screen adjustment options resemble those of a conventional television.

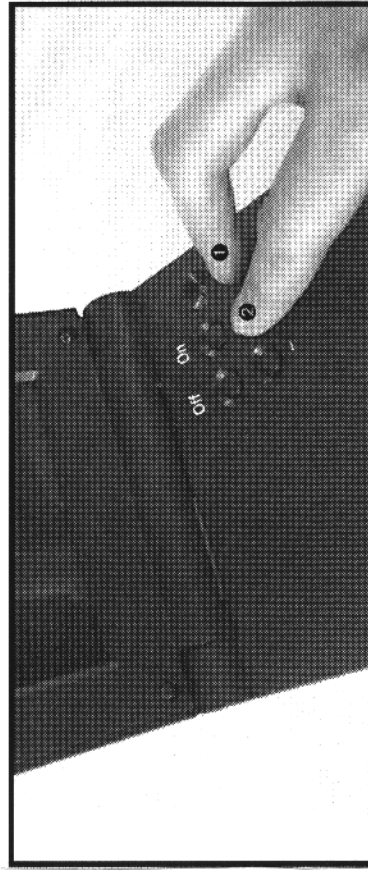
Except for volume, other adjustments made will be kept in memory and remain the same until you change them again.

Brightness

Increase brightness by pressing the "+" button **2** and decrease it by pressing "-" button **3**. A gauge will appear on the screen to make adjustment easier; it will disappear automatically after five (5) seconds.

Tint, Contrast, Color, Volume

Press the SELECT button **4** to illuminate the indicator on the right hand side of the screen. Press SELECT as many times as necessary to choose the desired parameter. Press the "+" or "-" button to make the necessary adjustments.



e) Adjustment of the monitor-receiver volume by an audiologist:

An audiologist can adjust the volume to a recommended level and save the parameter in memory. To do so, the audiologist must:

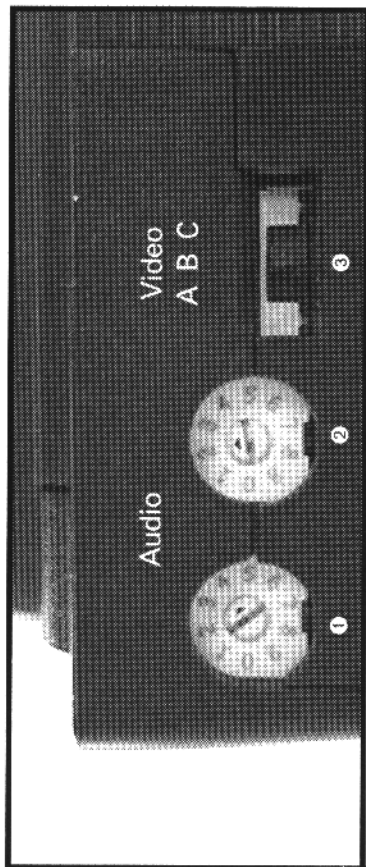
1. Choose VOLUME using the SELECT button **1**.
2. Press the "+" or "-" button to make the desired adjustment.
3. Press SELECT **1** to register the change in memory and, while pressing that button, press the "+" button **2**.

Students can always adjust the monitor-receiver volume. However, the next time they use their device, the audiologist's predetermined volume parameters will return as the default setting.



f) Returning to initial factory settings:

To change all settings back to those established at the factory, press the SELECT and ON keys simultaneously.



g) Adjusting the AudiSee monitor-receiver's audio channel:

Select the AudiSee monitor-receiver's audio channel using the two rotary dials. The AudiSee transmitter and the monitor-receiver must be set to the same channel.

Select the channel chosen on your AudiSee transmitter. Using the small screwdriver provided with the system, choose the first channel digit on the left-hand dial **1** and the second digit on the right-hand dial **2**. For channel 04, for example, choose 0 on the left dial and 4 on the right dial.

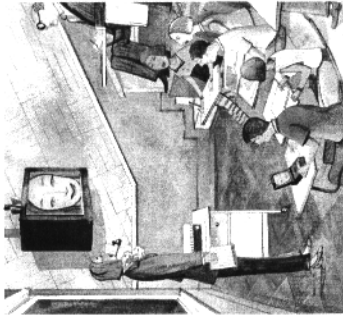
h) Adjusting the monitor-receiver's video channel:

Using the video selector, choose the same channel for the monitor-receiver and the transmitter (A or B) **3**.

 Channel C on the monitor-receiver cannot be used with the AudiSee transmitter at the moment.

 For transmission and reception of the audio/video signal, the transmitter and monitor-receiver must be on the same channel.

4. THE AUDISEE RECEIVER



**Under development
Available Summer 2001**

The AudiSee receiver transmits the teacher's image to a television screen or a portable computer. It is powered either by a battery or an AC adapter.



Under development. Available in Summer 2001.
Please contact an AUDISOFT sales representative for more details.