

Boston Aidea™
TSU501

REMOTE CONTROL
SETUP AND USE GUIDE



FCC COMPLIANCY

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 rule. These limits are designed to provide reasonable protection against harmful interference in residential installations. 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 the equipment does cause harmful interference to radio or televisions 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 different circuit from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Note If serial or parallel ports are configured, a filtered/shielded serial or parallel cable is recommended to minimize EMI and ensure FCC class B compliance.

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The Avidea Remote Control is a Radio Frequency (RF) and Infrared (IR) remote that can be programmed to operate all the Devices connected to your Avidea System, such as your TV, cable box, satellite receiver, VCR, etc. It has an extensive library of codes for these Devices that can be easily programmed. See "Entering Codes for Other Devices" on p. 21.

In addition, the Avidea Remote can "learn" codes from your existing remote controls that are not already stored in its library. See "Learning Commands" on p. 24.

You can label the touch screen buttons on the Avidea Remote. Characters and numbers are available for labeling as well as various audio and video symbols. See 'Labeling Buttons and Devices' on p. 26.

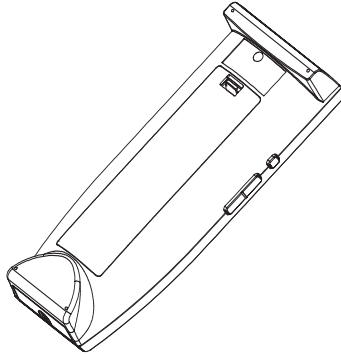
Recording macros is another feature of the Avidea Remote. If you wish to assign a sequence of commands to a single button, you can record a macro. See 'Recording Macros' on p. 28.

We have provided you with software for use on a PC called Freedom Edit, so that you can create your own screens and create an individualized look for your remote. You can find Freedom Edit on the included CD-ROM and on the Boston Acoustics website www.bostonacoustics.com/avidea. Freedom Edit's online help system will guide you through the process. In the future Freedom Edit will also allow you to upgrade your Avidea Remote. See 'Freedom Edit' on p. 32.

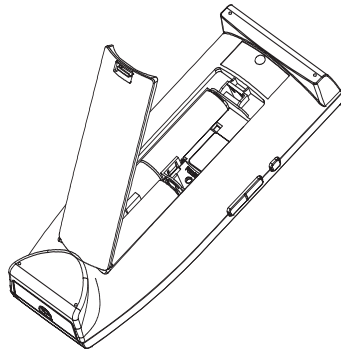
The Batteries

The Avidea Remote requires 3 AA-batteries (3 x 1.5 V) to function. You can use either the supplied batteries or purchase rechargeable batteries.

- 1 Remove the battery cover by releasing the tab and lifting.



- 2 Install the batteries in the battery compartment.
- 3 Replace the battery cover. After a few seconds, the Avidea Remote starts up automatically and beeps twice to indicate that it is ready for use.

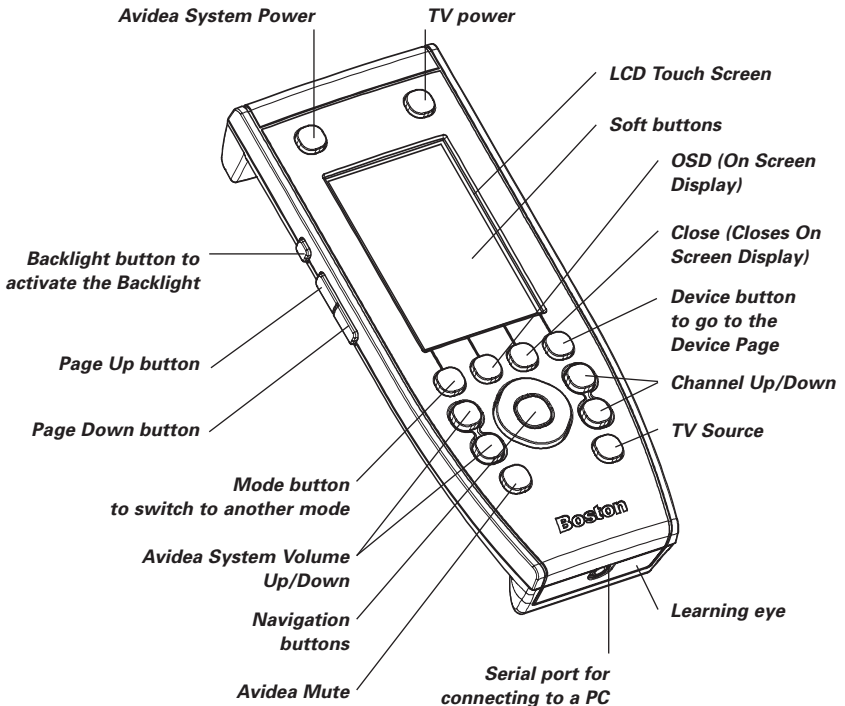


Note: Do not touch the screen or hard buttons during start up as this may cause your remote to lock up. If it does lock up, remove one battery and start again.

The Remote Control Layout

On the Avidea Remote you can perform functions by means of soft and hard buttons.

- Soft buttons are the buttons you can tap on the LCD Touch Screen.
- Hard buttons are the buttons located above, below and on the left side of the LCD touch screen.
 - The 2 hard buttons located above the Touch Screen turn the Avidea System and TV Power on and off.
 - The 4 hard buttons just below the touch screen are Mode, OSD (On Screen Display) Close (Closes OSD), and the Device button. Their labels are displayed at the bottom of the Touch Screen.
 - The hard buttons located at the bottom are for the Avidea System Volume Up/Down, Mute, Channel Up/Down, TV source, and the Navigation buttons.
 - The hard buttons located on the left side of the Avidea Remote are the Backlight button and the Touch Screen Page Up/Down buttons.

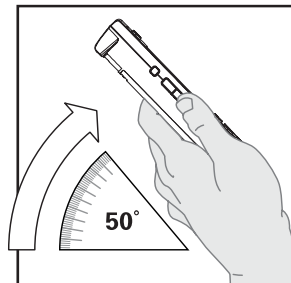


Activating the Remote Control

Turning on the Display and the Backlight

The Remote Control's display can be activated in four different ways:

- Tilting the unit more than 50 degrees as illustrated activates the display but not the backlight.
- Pressing the Backlight button on the left side will activate the display and the backlight.
- Tapping the screen gently with your finger or a blunt, soft object like a pencil eraser will activate the display, but not the backlight.
- Pressing any button will activate the display, but not the backlight.



Note: You can set the backlight to automatically activate whenever you use the remote. See 'Adjusting the Backlight Timer' on p. 15.

Whenever batteries are installed in the Avidea Remote or when it is reset, the Remote will beep twice. The Avidea Remote then automatically switches to the Device Page that displays all potential Devices that your Avidea Remote can operate.

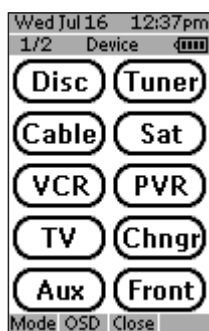
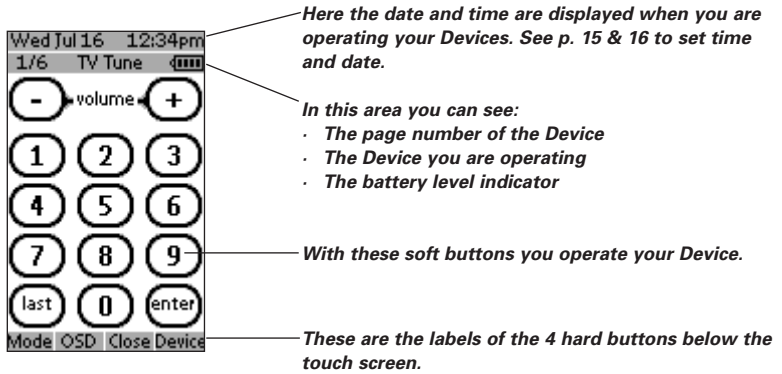


Fig 1: Device Page

The Touch Screen

The LCD Touch Screen is divided into different sections:



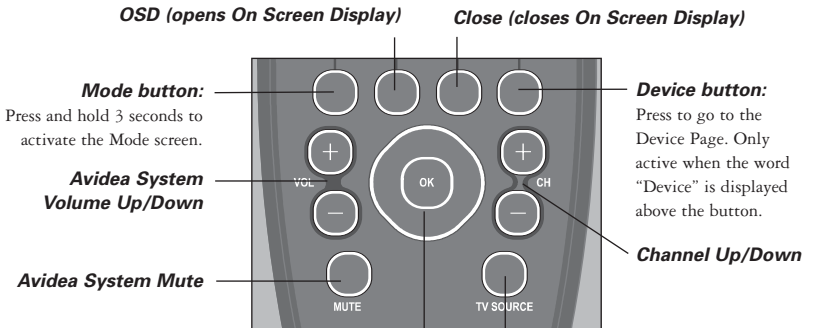
Using the Soft Buttons

By tapping the soft buttons on the LCD Touch Screen you send commands to the Device you have selected. The name of the active Device is indicated at the top of the touch screen.

Note You can operate the soft buttons in the same way you operate hard buttons on a conventional remote control. When you keep the soft button pressed instead of tapping it, the Avidea Remote keeps sending the command for up to 30 seconds.

Using the Hard Buttons

Hard Buttons can be operated at any time, even without turning on the LCD Touch Screen.



To perform actions in the menu of a Device, like the on screen display of a TV or a VCR display. Use the cursor to move up, down, left or right in the menu and press OK to select.

TV Source: Selects the input on your TV.

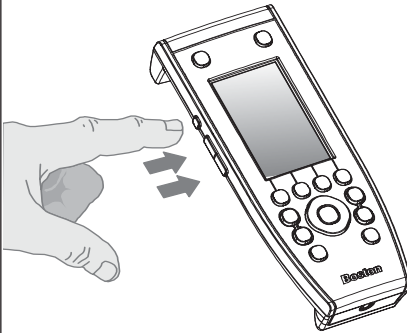
Using the Page Up and Page Down Buttons

The controls to operate your Devices are typically located on different pages. You can scroll through these pages using the Page Up and Page Down buttons on the left side of the touch screen. The page number on the left of the touch screen indicates the active page number and the total number of screens; for example 1/6 means page 1 of 6 pages. The pages also “wrap around” which means you can go to any page in any direction.

Using the Backlight Button

Use the Backlight button to activate the Avidea Remote's display and backlight.

Note If the screen stays black or becomes blank, adjust the contrast using the page buttons on the left side. See Changing the LCD Contrast below. The Remote Control also has an automatic shut-off feature to conserve battery life. See 'Adjusting the Backlight Timer' on p. 15.



Changing the LCD Contrast

To adjust the LCD contrast on the touch screen:

- 1 Press and hold the Backlight button.
The screen lights up.
- 2 While still holding the Backlight button, press the Page Up button once to increase the LCD contrast one level.
The LCD contrast is adjusted one level up.

—or—

Press the Page Down button once to decrease the LCD contrast one level.


The LCD contrast is adjusted one level down.

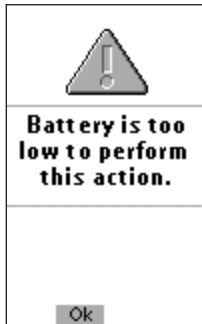
- 3 Release the Backlight button when the contrast is satisfactory. The LCD contrast can be adjusted to 4 different levels.

Note To adjust the contrast multiple levels, press the Page Up or Page Down button multiple times. When you press and hold the Page Up or Page Down button, the LCD contrast will change only one level.

The Battery Status

The battery icon  indicates the status of your batteries.

When the battery status is low, the Low Battery icon  appears at the top of the touch screen. You can still operate your Devices, but you cannot adjust the settings, enter codes, learn commands or record macros anymore. When you try to perform these actions, a message screen appears.



Replace the batteries to make the Avidia Remote fully functional again. See 'The Batteries' on p. 3 to replace the batteries.

Operating Devices

To operate Devices on your Avidea Remote select the Device Page. This screen displays the available Devices: TV, VCR, Disc, Tuner, Sat, etc.

Activating the Device Page

- Press the Device button.
The Device Page appears.



Fig. 2: The Device button

Selecting a Device on the Device Page

- Tap the soft button of the Device you want to operate.
The first page of the selected Device appears. Using the Page Up and Page Down Buttons you can go to another page of the Device.

You operate Devices using the buttons on your Avidea Remote:

- Soft buttons (touch screen buttons)
- Hard buttons

Selecting Other Device Functions

The second Device Page allows you additional control of your Avidea System. On this page you will find four soft buttons labeled Zone 2, Macros, Listen Modes, and Sleep Timer.



Zone 2

The Avidea System has the ability to provide audio simultaneously and independently in two different listening "zones". With the connection of additional amplification and loudspeakers to the Zone 2 output from your Avidea Control Center you can for instance, enjoy a CD in one room and the FM tuner in another.

To activate a Device from Zone 2 tap the Zone 2 button. Devices available now come up in a new page labeled Zone 2. You operate the Devices as you would in Zone 1. To turn off Zone 2, or return operation to Zone 1, tap the Off or Zone 1 soft buttons at the bottom of the touch screen.

Note If a Zone 2 user selects a Device already in operation in Zone 1 (or vice versa) both users will have control of that same Device. This may cause conflicting use and programming.

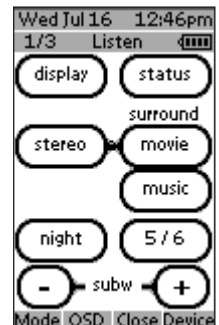
Listen Modes

The Avidea Remote allows adjustment of several "listening modes". Listening Modes allow you to use two, five or all six of the system's speakers, depending on program type, format, and personal choice. The Avidea subwoofer is always on, regardless of the number of speakers being used.

Note Page 2 of each Device contains a customized Listening Mode page for that Device.

On the Listening Mode page you will find the following soft buttons:

- Display**
Turns the display and lights on the Avidea Control Center on or off. The power button will remain illuminated.
- Status**
Brings up the Status Bar on your TV. Shows full system configuration, settings, and Device playback information.
- Surround Music**
Uses all six speakers to recreate the ambience of a live musical performance. This is the preset mode for all audio-only Devices.
- Stereo**
Uses only two speakers, the front left and front right, allowing Avidea to behave like a traditional 2-channel stereo system.



Surround Movie

Uses all six speakers to recreate a movie theater surround sound experience from sources that are not Dolby® Digital or DTS®. This is the preset mode for all video Devices. When any external Device provides a Dolby Digital or DTS signal, the Avidea System will automatically select the ideal playback mode.

5/6

Turns the rear center speaker on and off. The Avidea System can properly decode the latest surround sound formats: Dolby® Digital Surround EX™ and DTS®-ES™. Both of these formats are available on DVD, and may be provided by some digital cable and satellite programming.

The proper amount of sound will come automatically from the rear center speaker when watching an EX- or ES-encoded movie. A regular Dolby Digital or DTS soundtrack will also send sound to this speaker. However, when watching these movies it is possible that too much sound can come from the rear center speaker, and not enough from the rear left and right speakers. If that is the case, press the 5/6 button to turn the rear center speaker on or off. (The corresponding blue light on the control center will provide a visual confirmation of the status of the rear center speaker.) Simply choose which system configuration you prefer for a specific movie soundtrack.

Subw -/+

Adjusts the output level of the subwoofer to match the type of programming being played. You may also find that a relatively higher subwoofer level is preferred when playing the system at lower volumes. The range of this control is -12 to +12, and a visual indication of any level change will appear on the control center display and your television.

Night (Disc and Changer Device only)

Changes the Avidea System's overall dynamic range while listening to DVD's. This will reduce the difference between a movie's softest and loudest passages, making the movie more suitable for viewing when you are concerned about disturbing others.

Note: The Avidea System has Listening Mode Memory™. It will automatically remember both the Listening Mode and the associated subwoofer level setting for each Device. Let's say that the last time you listened to the Tuner you listened in Stereo and set the subwoofer to +3. You just finished watching a movie in Dolby Digital Surround EX with the rear center speaker on and the subwoofer set to +5. When you switch to Tuner, the system will automatically switch to Stereo, subwoofer +3. Any changes you make to the Listen Mode settings will be stored automatically in the system's memory and recalled the next time you choose that Device.

Macros

A macro allows you to send a sequence of commands using one single button. You can for instance switch on your TV, turn on your cable box and tune to a movie channel, all by pressing a single button. Pressing the **Macros** soft button on the second page of the Device Overview will bring you to a set of Macro soft buttons. Refer to 'Recording Macros' on p. 28 to learn how to program these for your particular needs.

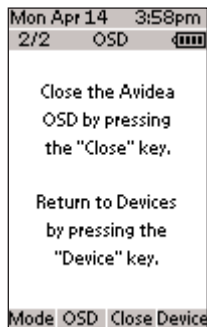
Sleep

You can program your Avidea System to shut off automatically. Using the - and + soft buttons allows you to program the Avidea System to shut off automatically in 15 minute intervals for up to 90 minutes.

Activating The Avidea System 'On Screen Display' (OSD)

Your Avidea System is equipped with an On Screen Display (OSD). The OSD is used to check system status and make adjustments to your Avidea System. Adjustments may include things like TV aspect ratios, speaker levels and parental controls. (See your Avidea Home Theater System Setup and Use Guide for complete information on the use of the OSD)

To access the OSD press the **OSD** hard button at the bottom of the LCD display. You use the **Navigation Buttons** (up/down/left/right/ok) to access specific adjustments within the OSD. Use the **Close** hard button at the bottom of the LCD display to close the OSD.



Note After pushing the Close button it is necessary to press the Device button to return to normal remote operation.

Working with Modes

Operation of the Avidea System or connected Devices requires that the remote be in Use mode. For customizing the Avidea Remote (adjusting the settings, entering codes, learning and labeling buttons, or recording macros) requires switching to the appropriate mode.

The Avidea Remote can be put into 7 different modes. These modes are:

- Use mode** The normal mode for operating your Avidea System and all the connected Devices. See 'Operating Devices' on p. 9.
- Setup mode** For changing the Avidea Remote settings. See 'Adjusting the Settings' on p. 14.
- Brand mode** For entering the codes for the brands of your Devices using the Avidea Remote's library. See 'Entering Codes for Other Devices' on p. 21.
- Learn mode** For learning commands from other remote controls. See 'Learning Commands' on p. 24.
- Label mode** For re-labeling buttons and re-naming Devices on the Avidea Remote. See 'Labeling Buttons and Devices' on p. 26.
- Macro mode** For recording macros. You can assign multiple commands to one single button. See 'Recording Macros' on p. 28.
- RF/IR mode** For changing mode of communication to connected Devices. You can control other Devices (VCR, satellite receiver) from greater distances. See 'Changing the RF/IR settings' on p. 18.

Note For learning commands, entering codes, and recording macros, it is necessary to select a Device on the Device Page. (See below.)

- 1 On the Device Page tap the soft button of the Device you want to customize. The first page of the selected Device appears.
- 2 Press and hold the **Mode** button for 3 seconds. The Mode screen appears.

Note You have to press and hold the Mode button for 3 seconds to prevent accidental changes.



- 3 Select the desired mode from the Mode screen.

Adjusting the Settings

The Avidea Remote settings can be adjusted in the Setup mode.

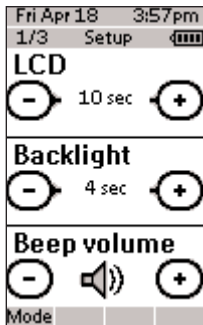
- 1 Press and hold the **Mode** button for 3 seconds.
The Mode screen appears.
- 2 Tap **Setup** in the Mode screen.
The first Setup page appears.

The Avidea Remote settings consist of 3 setup pages with several settings per page. Use the Page Up and Page Down buttons to navigate to the appropriate setup page.

First Setup Page

On the first setup page you can adjust:

- The LCD timer
- The backlight timer
- The beep volume



Adjusting the LCD Timer

The LCD timer indicates how long the LCD touch screen stays active before it turns off. You can set the timer between 3 and 120 seconds.

Press '+' to increase or '-' to decrease the time the LCD stays active.

- 1 Tap '+' or '-' once to adjust the timer 1 second up or down.
- 2 Press and hold '+' or '-' to adjust the timer in 10 second intervals.

Adjusting the Backlight Timer

The backlight setting indicates how long the backlight of the LCD touch screen and the buttons stays active. The backlight timer can be set between 1 second and 120 seconds. You can also set the backlight in the 'On' setting so that the backlight automatically activates when the touch screen is tapped or a hard button is pressed.

Note The backlight cannot stay active longer than the LCD. If you increase the backlight timer, the LCD timer will automatically increase as well.

Press '+' to increase or '-' to decrease the time the backlight stays active.

- 1 Tap '+' or '-' once to adjust the timer 1 second up or down.
- 2 Press and hold '+' or '-' to adjust the timer in 10 second intervals.
- 3 After you have reached 120 seconds, press the '+' once more to jump to the 'On' state which will automatically activate the backlight whenever the unit is used.

Note Battery life will be reduced when the settings for the LCD timer and the backlight timer are high or when the backlight is activated automatically.

Change the Beep Volume

The beep volume setting adjusts or turns off the volume of all button and system beeps on the Avidea Remote. The beep volume levels are mute, soft, medium and loud.

- Press '+' to increase or '-' to decrease the beep volume.

Second Setup Page

Use the Page Down button to get to page 2.

Adjust the Date

You can set the year, the month and the day.

Press '+' to increase or '-' to decrease the value for the year, month, and day.

- 1 Tap '+' or '-' once to adjust the year, month and day one value up or down.

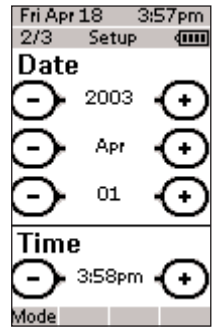
- 2 Press and hold '+' or '-' to adjust the values for the year and the month more rapidly. The value for the day settings will change per 5 days.

The Avidea Remote will immediately reflect the date change at the top of the screen.

Adjust the Time

- 1 Tap '+' or '-' once to adjust the time 1 minute up or down.
- 2 Press and hold '+' or '-' to adjust the time more rapidly. The time will increase or decrease per 30 minutes.

The Avidea Remote will immediately reflect the time change at the top of the screen.

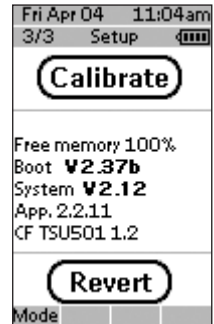


Third Setup Page

Use the Page Down button to get to page 3.

On the third setup page you can:

- Calibrate the touch screen
- Read information about your Device
- Revert the Avidea Remote



Calibrate the touch screen

- 1 Tap the Calibrate button.
The first instruction "Touch the top left corner" appears.
- 2 Tap as accurately as possible in the center of the image in the upper left corner using a small blunt object such as a pen cap or PDA stylus.
The second instruction "Touch the button right corner" appears.
- 3 Tap as accurately as possible in the center of the image in the lower right corner using a small blunt object such as a pen cap or PDA stylus.
A message screen "Calibration successful" appears for 3 seconds. The setup panel appears again.

Avidea Remote Information

This page contains information that may be important to the dealer in case of a defect. The following information is displayed on this screen:

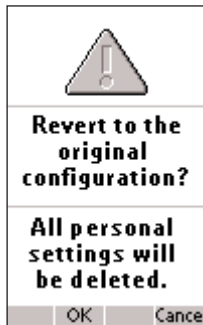
- Free memory (in percentage), which gives you an indication on how much memory is left to (further) customize the Avidea Remote
- Boot version
- Application version
- Configuration file

Revert

Warning When you revert the Avidea Remote, all customization is lost. You lose all the Avidea Remote settings, Device codes, learned codes, and custom macros. You should save your configuration file to your PC before reverting. See the Freedom Edit on p. 32 for more details.

By tapping the Revert button the Avidea Remote will be reverted to the original configuration file. You might have to revert when you notice that scrolling through pages is slowing down.

- 1 Tap the Revert button.
A message screen appears to confirm or cancel the revert process.



- 2 Press OK or Cancel.

To exit Setup Mode

- 1 Press the Mode button.
The Mode screen appears.
- 2 Tap the Mode button you want to go to.
For normal operation, press Use.

Changing the RF/IR Settings

Your Avidea Remote Control comes from the factory ready to control the Avidea System using Radio Frequencies (RF). RF signals have an operating range of 20 meters (66 feet) in a typical home and unlike traditional Infrared (IR) signals used by most consumer electronics, RF signals can go through walls and obstacles, allowing you to operate the system throughout your house. This feature is particularly helpful when controlling your system from another room or even outside where you may have additional speakers. There are two reasons why you may want to adjust the RF/IR characteristics of your Remote Control and Avidea System. One, to extend control of IR Devices by using RF. Two, to resolve system interference problems.

Changing Infrared (IR) Devices to Radio Frequency (RF) Control

Additional Devices (VCR, Satellite Receiver, etc.) that you may want to connect to your Avidea System will typically use IR signals to operate via a remote and your Avidea Remote Control is designed to learn these IR commands. (See 'Entering Codes' and 'Learning Commands' on p. 21 and p. 24.)

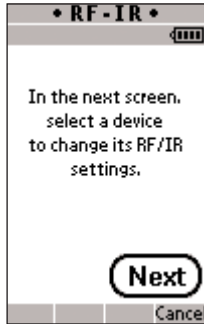
However you may choose to operate your IR Devices using RF signals giving you the conveniences of RF as mentioned. The Avidea System can receive RF signals from the Remote Control and translate them into IR commands and send them to the appropriate Device.

Note: To be able to operate one or more IR Devices with RF signals from your Avidea Remote, you have to change the Remote Control's RF/IR settings for those Devices. You will also need to connect the supplied Dual IR Emitter to the rear of your Avidea Control Center. The Emitter also needs to be placed near the IR Device you want to operate, ensuring the Emitter's sending eye is pointed at the Device. (See your Avidea System Setup and Use Guide for complete information on RF/IR operation)

- 1 From the Device Page, press and hold the **Mode** button for 3 seconds. The Mode screen appears.



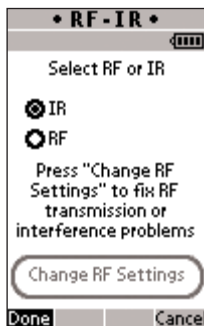
- From the Mode page press the **RF/IR** button.
A message will ask you to select the Device you want to change. Press **Next**.



- On the next screen select the Device you wish to change. The first RF/IR page appears.



- Select the transmission mode. The preset mode for Devices you have connected to your Avidea System is IR. If you want to change this to RF, press the RF button. Tap the Done button to finish.



Now when using the Remote, all commands will be transmitted in RF mode and converted by the Avidea System to IR. The IR signal is then sent through the IR Emitter and delivered to the selected Device.

Note Please do not change the RF settings to IR for Disc or Tuner unless you cannot get your Avidea System to respond to RF commands.

Changing RF Settings- RF ID

If you have more than one Avidea System in your home or perhaps a neighbor in close proximity also has a system, you may find that the RF signals from one system's Remote Control will interfere with the other. In this case you will want to change your system's ID code so that your system operates independently.

- 1 Looking at the rear panel of your Avidea Control Center you will find a dial labeled ID located near the main power line. By rotating the dial, change the setting from the default 'A' setting to another. Note the new setting.
- 2 From the Device Page, press and hold the Mode button for 3 seconds. The Mode screen appears.
- 3 From the Mode page press the RF/IR button. A message will ask you to select the Device you want to change. Press Next.
- 4 On the next screen select the Device you wish to change. The RF/IR page will appear.
- 5 Press the button labeled Change RF Settings. The second RF/IR page will appear.
- 6 On this screen find the box labeled Change RF ID. Scroll to the ID designation that matches the ID knob on the back of the Control Center. Press Done.

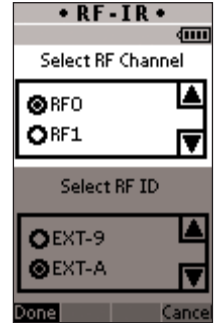


Note All Devices must match the ID number selected on the Control Center. If you change one Device you must change all others in the same manner for proper operation.

Changing RF Settings- RF Channel

In rare occasions, other RF controlled Devices (garage door openers, cordless phones) may interfere with the operation of your Avidea Remote Control. If you suspect interference, you can choose another channel to operate your Avidea System.

- 1 Looking at the rear panel of your Avidea Control Center you will find a dial labeled CH located near the main power line. By rotating the dial, change the setting from the default 0 setting to another. Note the new setting.
- 2 From the Device Page, press and hold the Mode button for 3 seconds. The Mode screen appears.
- 3 From the Mode page press the RF/IR button. A message will ask you to select the Device you want to change. Press Next.
- 4 On the next screen select the Device you wish to change. The RF/IR page will appear.
- 5 Press the button labeled Change RF Settings. The second RF/IR page will appear.
- 6 On the next screen find the box labeled Change RF Channel. Scroll to the RF designation that matches the CH knob on the back of the Control Center. Press Done.



Note All Devices must match the CH number selected on the Control Center. If you change one Device you must change all others in the same manner for proper operation.

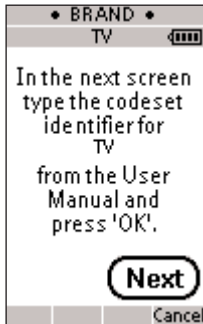
Entering Codes for Other Devices

The Avidea Remote can operate other Devices (VCR, Satellite Receiver) that are connected to your Avidea System. This eliminates the need to use multiple remotes, as well as allowing a sequence of commands to be programmed as "macros". See 'Recording Macros' on p. 28.

To take advantage of the Avidea Remote's ability to control other brands and Devices, follow these steps.

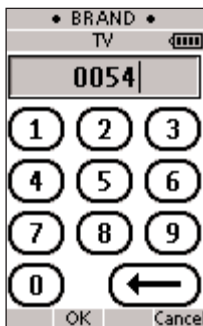
To enter codes:

- 1 **Locate Code.**
We recommend that you look up the codes for all other Devices that are connected to your Avidea System (located in the back of this manual starting at p. 40). Once the correct codes are located, record them in the space provided below for future reference.
- 2 **Select the Device, e.g. TV, for which you want to enter a code.**
The first page for that Device appears.
- 3 **Press and hold the Mode button for 3 seconds.**
The Mode screen appears.
- 4 **Select Brand.**
The Brand screen appears. 'Brand' and the label of the selected Device appear at the top of the LCD touch screen.



Device	Table	Code
Cable	Cable	
Sat	Sat/DBS	
VCR	VCR	
PVR	PVR	
TV	TV	
Chngr	CD(R)	
Aux	CD(R)	

- 5 **Tap Next to enter the code for your Device.**
The code screen appears. When a code is already stored, as in the illustration below, that code is displayed.



- 6 Enter the code from the 'Table of Brands' from p. 40 onwards.

Note To delete a number, tap  on the LCD touch screen.

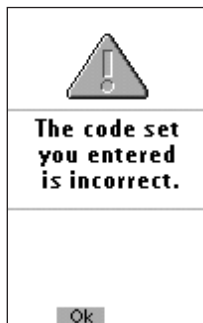
In the Table of Brands the brands are ordered alphabetically per Device. Some brands use several codes for the same Device. The codes in the table of brands contain only the basic functions of the Devices. Enter the first code and see how well it operates your Device. If your Device is not responding properly, you should try out the second code for that brand. Try out all codes for the brand until you can operate the Device to your satisfaction.

Note The Brand Codes provided for your remote represent the most comprehensive library currently available. You may discover that certain hard and/or soft buttons do not perform exactly as you expect. If this happens, please use Learning Mode to teach your Avidea Remote the exact desired functionality using your original remote controls. See 'Learning Commands' on p. 24.

- 7 Press **OK** to enter the code for your Device.

When the code is correct, you will hear a confirmation beep. Press the mode button for 3 seconds. The mode screen appears. For normal operation, press Use.

If you enter an incorrect code, you will hear an error beep. A message screen appears.

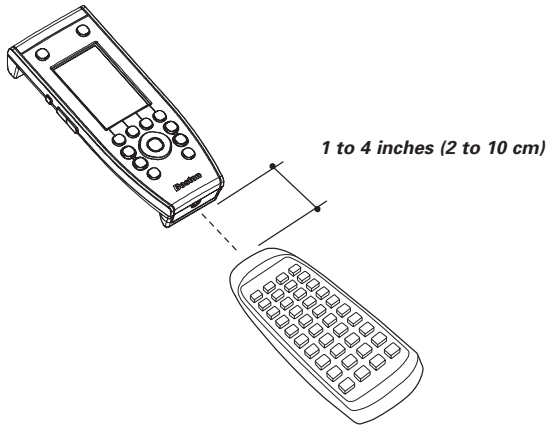


- 1 Press **OK**.
The Avidea Remote returns to the Brand screen where the incorrect code is displayed.
- 2 Look up the correct code and repeat instructions 6 and 7.



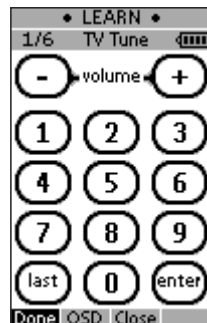
Learning Commands

If a Brand code in the library is not appropriate for your Device, or if buttons on the Avidea Remote do not work as expected, you can program the Avidea Remote by transmitting IR signals from your existing remote controls to the Avidea Remote's learning eye. To do this, place the Avidea Remote and the Device's remote control on a flat, opaque surface, 1 to 4 inches (2 to 10 cm) apart.



The Learn Sequence

- 1 Select the Device, e.g. TV, for which you want to learn a function. The first page for that Device appears.
- 2 Press and hold the Mode button for 3 seconds. The Mode screen appears.
- 3 Tap Learn on the Mode screen. The Avidea Remote is now in Learn Mode. 'Learn' and the label of the selected Device appear at the top of the touch screen.



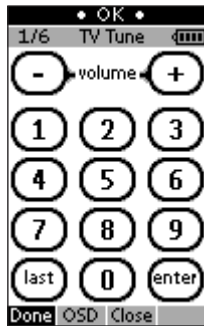
- 4 Use, if necessary, the Page Up or Page Down button to go to the next button you want to 'teach'.
- 5 Press the soft or hard button you want to 'teach' on the Avidea Remote. The soft button will go from light to dark, and the Learn label changes to Learning, which means the Avidea Remote is ready to receive commands from an existing remote control. The Avidea Remote will wait for 5 seconds to receive an IR code from another remote control.

Note When a hard button is pressed to learn, there is no on-screen feedback to indicate which button is pressed.

- 6 Press and hold the button on the existing remote control you want to 'teach' to the Avidea Remote.

When the Avidea Remote receives an IR code:

- You hear a confirmation beep.
- The label changes from Learning to OK. The Learn sequence has been completed successfully.



For each Device you can 'teach' all soft and hard buttons on the Avidea Remote, except for:

- the Backlight button
- the Page Up and Page Down buttons
- the Mode button
- the Device button



When the Avidea Remote does not receive an IR code in 5 seconds:

- You will hear an error beep.
 - The label changes from Learning to Failed. The Learn sequence has failed.
-
- The Avidea Remote will return to Learn mode. Return to step 5 of the Learn sequence to relearn the button.
- 7 Go to other pages of the selected Device with the Page Up and Page Down buttons. Repeat steps 5 and 6 until you have copied all the commands of the existing remote control.
 - 8 Press Done when you have finished learning commands to the buttons of your choice.
The Avidea Remote returns to Use Mode. You can try out the new IR codes or select another Device to learn.

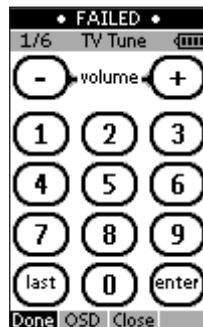
Labeling Buttons and Devices

You can label or relabel buttons and Devices with:

- Characters in lower case and upper case
- Numbers
- Symbols

To label a Device:

- 1 Go the Device Page.
- 2 Press and hold the **Mode** button for 3 seconds.
The Mode screen appears.



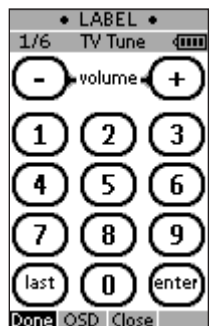
- 3 Tap Label on the Mode screen.
The Avidea Remote is now in Label Mode. 'Label' and the 'Device' appear at the top of the touch screen with the following message on screen.
- 4 Tap Next
- 5 Tap the Device that you want to re-label. The Avidea Remote shows a mini-keyboard. The text you want to re-label is displayed above the keyboard.
- 6 Edit the label.
 - Press Del to delete the current text.
 - Tap the characters, numbers, and/or symbols you want to use.
 - To enter a space, press Space.
 - To display other keyboards with capital letters and symbols, press the Page Up or Page Down button repeatedly.

Note You will hear an error beep, when you selected more characters than can be displayed on the selected button.

- 6 Tap OK to save the changes and return to the Device Page.
-or-
Tap Cancel to Return to the Device Page without saving changes.
- 7 Label all other elements you want. You can navigate to the different pages of the selected Device screens or the Device Overview, using the Page Up and the Page Down button.
- 8 Press Done when you have finished labeling the buttons of your choice. The Avidea Remote returns to Use Mode. You can see the label or select another Device to label.

To label a button within a Device:

- 1 Go the Device Page.
- 2 Select the Device that contains the button you wish



to relabel.

- 3 Press and hold the **Mode** button for 3 seconds.
The Mode screen appears.
- 4 Tap Label, Tap Next, select the button you wish to label, and continue with step number 3 above (p. 27). Use the Page Up/Down keys to access other buttons within the Device.

Recording Macros

A macro allows you to send a sequence of commands using one single button. You can for instance, switch on your TV, turn to a movie channel and prepare your VCR for recording by rewinding the videotape.

To record macros, the Avidea Remote has to be in Macro mode.

- 1 Go the Device Page.
- 2 Select the Device, e.g. TV, with the buttons you want to program as a macro.

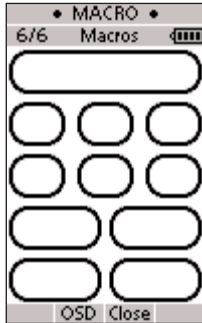
Note Basically, you can assign any button as a macro button. However, it is recommended to assign only the reserved macro buttons on the last page of every Device. Use the Page Up and Page Down buttons to go to the last page of the Device.

- 3 Press and hold the **Mode** button for 3 seconds.
The Mode screen appears.
- 4 Tap **Macro** on the Mode screen.
A message screen appears. The Avidea Remote is now in Macro Mode.



- 5 Tap Next.

The Device screen with the Macro label appears. With the Page Up and Page Down buttons you can go to other screens of the selected Device

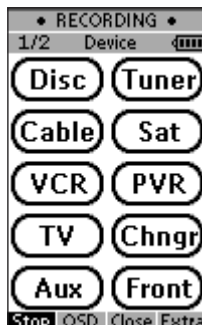


- 6 Tap the soft or hard button you want to select as a macro. A message screen appears

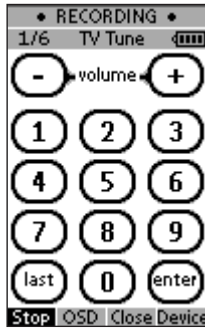


- 7 Tap Start.

The Device Overview appears with the 'Recording' label at the top of the screen. From the Device Overview you can go to the different Devices or you can press the Extra hard button to go to the Extra screen with delays and beeps.

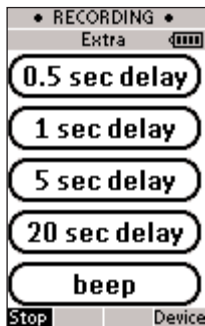


- 8 Tap the button of the Device you want to go to.
The Device screen appears.



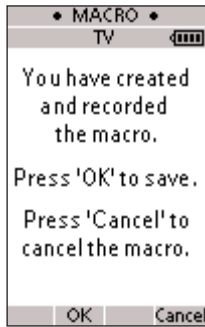
- 9 Tap the soft or hard buttons with the commands you want to record.
- 10 Press the Page Up and Page Down buttons to go to different screens of the same Device.
—or—
Press the **Device** button to go to the Device Page again.
- 11 To add delays and beeps to the macro, press the **Extra** hard button on the Device Page.
The Extra screen appears.

Note Delays may be required between commands. Some Devices will not respond to another remote command immediately after turning on.



- 1 To add a delay, tap one of the Delay buttons.
By tapping several Delay buttons, the duration of the delay will be increased.
- 2 To add a beep, tap the Beep button.
- 3 Press the Device button to go to the Device Page again.

- 12 Press **Stop** to stop recording.
A message screen appears.



- 13 Press **OK** to save the macro and return to the Mode screen.
The existing command of the selected button is replaced by the macro.

—or—

Press **Cancel** to return to the Mode screen without saving the macro.
The button retains its previous command.

- 14 Set the Avidea Remote in Use mode to test the recorded macro.



If you want to personalize your Avidea Remote even more beyond its standard programming features, Freedom Edit is the tool for you to use. Freedom Edit is the Avidea Remote's companion software that you find on the included CD-ROM.

You can find more information and updates of the software on <http://www.bostonacoustics.com/avidea>.

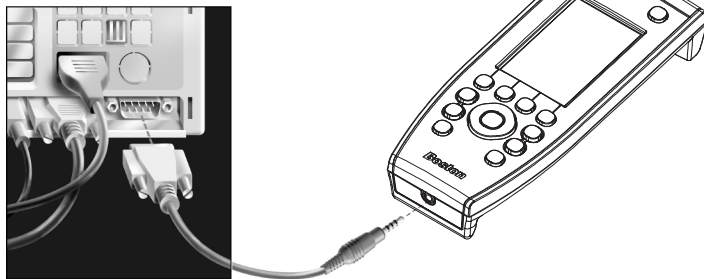
Freedom Edit is the visual editor for creating and configuring the Avidea Remote Configuration Files (NCF) on your computer. An NCF is a file that is used to define the Avidea Remote behavior and look for the LCD touch screen.

Note It is a good idea to make back-up copies of your own configurations. This can be done with Freedom Edit.

With Freedom Edit you can:

- Define the types and brands of your Devices.
- Generate a new Device Page.
- Design the page layout and the appearance of buttons.
- Configure the behavior of the hard buttons and soft buttons.
- Access Freedom Edit's extended help system by pressing F1.
- Save, duplicate and share NCFs, Devices, buttons, bitmaps or codes with another Avidea Remote.
- Preview the NCF on the Freedom Emulator.
- Download the new configurations to your Avidea Remote and upload the configuration file on your Avidea Remote to Freedom Edit by means of the included serial cable.

- 1 Plug one end of the serial cable in the serial port on your computer.**
- 2 Plug the other end of the serial cable in the serial port on the Avidea Remote.**



Note When the Avidea Remote is connected to the PC, the battery life will be reduced.

Minimum System Requirements

- PC with a Pentium 166 MHz or higher
- Windows 98/ME/XP
- 32 MB of RAM
- 16 MB of free hard disk space
- Free serial port
- CD-ROM player

Installing Freedom Edit from the CD-ROM

1 Place the Freedom Edit CD-ROM in your computer.

Freedom Edit setup will start up automatically. If not, you can install Freedom Edit by double-clicking the FreedomEditSetup.exe file on the CD-ROM.

2 Follow the instructions on screen that will guide you through the installation procedure.

The first time you run Freedom Edit, you have to accept the license agreement. Otherwise Freedom Edit will not run.



Important Notices

Take care not to scratch the touch screen

Use your finger to tap the LCD touch screen or use plastic-tipped pens intended for use with touch screens, such as a PDA stylus.

Never use an actual pen, pencil or other sharp object on the LCD touch screen.

Protect the Avidea Remote from extreme temperatures

Keep the Avidea Remote away from heaters and other heat sources.

The Avidea Remote is not waterproof

The Avidea Remote should not be exposed to rain or moisture.

Do not store or use the Avidea Remote in any location that is extremely damp or wet.

When you have spilled water on the Avidea Remote, you have to take out the batteries and let the Avidea Remote dry for 48 hours before returning the batteries to the Remote.

When you have spilled other liquids like coffee on the Avidea Remote, you can clean it with distilled water. Make sure no water gets into the housing.

The touch screen of the Avidea Remote contains a glass element

Do not drop the Avidea Remote or subject it to any strong impact.

Cleaning the Avidea Remote

Use a soft, damp cloth to clean the Avidea Remote.

If the LCD touch screen of the Avidea Remote is soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.

Do not use a corrosive detergent or an abrasive sponge.

Avoid the use of abundant water.

Tip You may want to switch your Avidea Remote to Front input to avoid system operation while cleaning. Using the front input eliminates any soft buttons that can be activated during cleaning.



How do I reset the Avidea Remote?

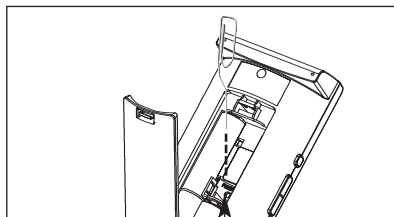
Under normal circumstances, you will never have to reset the Avidea Remote. However, on rare occasions, if the Avidea Remote's touch screen freezes or if you notice unusual behavior, you need to perform a reset to get the Avidea Remote running again. All customized commands and Devices are retained, however you will need to reset the time and date.

1 Remove the battery cover from the back of the Avidea Remote.

You will see the Reset button in the battery compartment.

2 Use an unfolded paperclip or a sharp pencil to carefully press the Reset button.

The Avidea Remote restarts and beeps twice to indicate it is ready for use.



Reset button

How do I revert to the last downloaded configuration?

Reverting to the last downloaded configuration restores the Avidea Remote's Devices and commands to the state last downloaded from your PC. This means that any changes made in the remote are lost permanently. Normally, you never have to revert the Avidea Remote.

1 Press and hold the Mode button for 3 seconds.

The mode screen appears.

2 Tap the Setup button.

3 Press the Page Down button to access setup page 3.

4 Tap the Revert button.

A message screen appears to confirm or cancel the revert process.

5 Press OK or Cancel.

Do I have to calibrate the touch screen?

The Avidea Remote's touch screen is calibrated when it leaves the factory. You only have to calibrate the LCD touch screen:

- When you upgrade the Avidea Remote's software in the future. The Avidea Remote displays a message to calibrate the touch screen. Complete the instructions in 'Calibrate the touch screen' on p. 16.
- When the touch screen buttons do not respond properly. Navigate to Setup Mode first as described in 'Adjusting the Settings' on p. 14 and continue with the instructions in 'Calibrate the touch screen' also on p. 16.



General Problems

The display stays blank or becomes black

- Make sure the batteries are properly installed. See ‘The Batteries’ on p. 3.
- Press the Backlight button to make sure the Avidea Remote and the backlight are turned on. See ‘Turning on the Display and the Backlight’ on p. 5.
- Adjust the contrast using the Backlight button and the Page Up or Page Down buttons on the left side of the Avidea Remote. See ‘Changing the LCD Contrast’ on p. 7.

The display is too light or too dark

- Adjust the contrast using the Backlight button and the Page Up or Page Down buttons on the left side of the Avidea Remote. See ‘Changing the LCD Contrast’ on p. 7.

The Avidea Remote shuts off automatically

- This is a timeout feature of the Avidea Remote to save power. You can change the time Avidea Remote stays on in the Settings. See ‘Adjust the LCD Timer’ on p. 14.

IR Devices that have been configured for RF do not respond to commands from the remote control.

- Check in the IR/RF mode if the Devices you want to operate are set up properly. See ‘Changing IR Devices to RF Control’ on p. 18.
- Make sure the IR emitter is placed near the Devices you want to use with RF signals. See ‘Changing IR Devices to RF Control’ on p. 18.
- Be aware that more than one IR emitter may be needed if many IR Devices are stacked or located on different shelves. See ‘Changing IR Devices to RF Control’ on p. 18.

A Device responds to some RF signals and not to others.

It is possible that a Device does not respond properly when operated with RF signals. This is mostly due to IR signals that cannot be properly transmitted as RF signals. In that case, you have to reconfigure the remote control to operate the Device with IR signals again. See ‘Changing IR Devices to RF Control’ on p. 18. You also may be receiving interference from another RF Device. See ‘Changing RF Settings’ on p. 20 and p. 21.

Note The brand codes provided with your remote represent the most comprehensive library currently available. You may discover that certain hard and/or soft buttons do not perform exactly as you expect. If this happens, please use Learning Mode to ‘teach’ your Avidea Remote the exact desired functionality using your original remote controls. See ‘Learning Commands’ on p. 24.



My Avidea System operates without me controlling it.

You may be receiving interference from another Avidea System. See 'Changing RF Settings' on p. 20 and p. 21.

External Devices do not respond to commands from the Avidea Remote

- Make sure the Avidea Remote is in Use mode. See 'Working with Modes' on p. 13.
- If in IR mode, make sure the Avidea Remote's sending LED is pointed towards the Device you're operating.
- Check if the battery level is low. If so, replace the batteries. See 'The Batteries' on p. 3.
- Check if you have entered the correct codes for your Devices. See 'Entering Codes for Other Devices' on p.21.
- Check if the button you are trying to use is assigned properly via Brand mode, Learn mode or Macro mode. See 'Entering Codes for Other Devices' on p. 21, 'Learning Commands' on p. 24 and 'Recording Macros' on p. 28.
- Calibrate the touch screen. See 'Calibrating the touch screen' on p. 16.

The TV Power button turns my TV On but not Off.

If the code library for your TV includes discrete On/Off commands they will be stored on TV p. 2 as soft buttons. It is possible that only your TV's On command will be stored to the TV Power hard button. To fix this problem simply use Learning Mode and your original TV remote to properly configure your TV Power button. See 'Learning Commands' on p. 24.

The Avidea Remote does not learn commands from an existing remote control

- Press and hold the buttons on the existing remote control for a longer or shorter period of time.
- Make sure the distance between the Avidea Remote and the existing remote control is between 1 and 4 inches (2 to 10 cm). See 'Learning Commands' on p. 24.
- Do not 'teach' commands directly under fluorescent lights.
- Do not 'teach' commands on a reflecting table surface.
- Check if the battery level is low. If so, replace the batteries. See 'The Batteries' on p. 3.
- Check if there is sufficient memory to learn commands. If not, revert the Avidea Remote. See 'Avidea Remote Information' and 'Revert' on p. 17.
- Make sure that the Avidea Remote page label changes from Learn to Learning before pressing the button you are trying to learn on the existing remote.

The Avidea Remote is not recognized by the Freedom Edit software

- Make sure the serial cable is properly connected. See 'Freedom Edit' on p. 32
- Disconnect other equipment connected to the serial ports, e.g. PDA's.
- Plug the serial cable in another serial port.
- Try to connect multiple times.

Programming Problems

Buttons are not sending the correct commands

- Check if you have defined the correct brands for your Devices. See 'Entering Codes for Other Devices' on p. 21.
- Check whether the button of the Device is learned properly. See 'Learning Commands' on p. 24.
- Check whether the macro is recorded properly. See 'Recording Macros' on p. 28.

The Avidea Remote will not switch modes

- Replace the batteries. When the batteries are low the Avidea Remote prevents you from switching modes so that no customization can get lost.

The Avidea Remote is low on memory

- Revert the Avidea Remote. See 'Revert' on p. 17.

The configuration file is corrupted

- When this unlikely event occurs, you have to revert to the original configuration or use Freedom Edit to download a new configuration file. All your customized commands and Devices will be lost and you will have to reprogram your Avidea Remote. If you use Freedom Edit, please make backup copies of your customized configurations. See 'Revert' on p. 17 and 'Freedom Edit' on p. 32.

The Avidea Remote error message

If the error message 'Invalid CF version or corrupt Flash!' occurs:

- Use the Reset button on the back of the Avidea Remote. See 'How do I reset the Avidea Remote?' on p. 35.
- Try to recover the Avidea Remote Configuration File (NCF) by downloading a backup copy or the default file from Freedom Edit. See 'Freedom Edit' on p. 32.
- Go to the Boston Acoustics website <http://www.bostonacoustics.com/avidea> for more information.

The specifications and design of this product are subject to change without notice.

Display	Monochrome touch screen LCD with 4 gray levels and digital contrast control. Resolution: 160 x 100 pixels Blue EL backlighting for LCD and hard buttons
Interface	3-wire (RS232) serial port connector
Software	Built-in Boston Acoustics Radio Frequency codes Library with IR codes to operate different brands Total number of Devices limited only by memory
Infrared (IR)	Infrared sending LED and learning eye Operating distance of 33 feet (10 meters) Learning frequency up to 56 kHz and 455 kHz Learning distance 1 inch (2 cm) up to 4 inch (10 cm)
Radio Frequency	Band: 418 MHz 16 Extender ID's and 4 Channels
Minimum System Requirements	PC with a Pentium 166 MHz or higher Windows 98/ME/XP 32 MB of RAM 16 MB of free hard disk space Free serial port CD-ROM player
Memory	2 MB non-volatile flash memory
Batteries	3 AA-batteries (3 x 1,5V): primary or rechargeable
Power Management	Tilting the unit more than 50 degrees. The display will be activated, but not the backlight. Pressing the backlight button on the left side. The display as well as the backlight will be activated. Tapping the screen gently with your finger or a blunt, soft object like a pencil eraser. The display will be activated, but not the backlight. Pressing any button will activate the display, but not the backlight. Power off automatically
Dimensions	7.2 inch x 2.8 inch x 1.3 inch (183mm x 72mm x 33mm)
Operating Temperature	41°F to 113°F (5°C to 45°C)
Accessories	RS232 cable for PC connection CD-ROM with Freedom Edit software 3 AA-batteries

Library information: Designed by UEI Technology Licensed under U.S. Patent 5,689,353 Portions © UEI 2003

TABLE OF BRANDS

SETUP CODES FOR CABLE

ABC	0003, 0008, 0014, 0017
Allegro	0153
Americast	0899
Archer	0153
Bell & Howell	0014
Bell South	0899
Century	0153
Citizen	0153
Colour Voice	0025, 0031
Comtronics	0060
Director	0476
FutureVision	0649
Garrard	0153
Gemini	0242
General Instrument	0003, 0276, 0476, 0810
GoldStar	0144
Hamlin	0009, 0273
Jasco	0153
Jerrold	0003, 0012, 0014, 0276, 0476, 0810
Magnavox	0027, 0334
Memorex	0000
Motorola	0276, 0476, 0810, 1106
Pace	0237
Panasonic	0000, 0107
Paragon	0000
Philips	0025, 0027, 0028, 0029, 0030, 0031, 0153, 0242, 0290, 0305, 0317, 0334, 0649, 0652
Pioneer	0144, 0533, 0877, 1877
Pulsar	0000
Quasar	0000
Regal	0273, 0279
Runco	0000
Samsung	0144
Scientific Atlanta	0008, 0017, 0477, 0877, 1877
Sony	1006
Starcom	0003
Supercable	0276
Tocom	0012
Torx	0003
Toshiba	0000
Unika	0153
Universal	0153
Viewstar	0027, 0060
Zenith	0000, 0525, 0899

SETUP CODES FOR SAT/DBS

AlphaStar	0772
Astro Industries	0095
Bell ExpressVu	1167
BSR	0095
Capetronic	0095
Channel Master	0018, 0212
Chaparral	0053, 0209
Crossdigital	1109
Drake	0018, 0064, 0245
DX Antenna	0041
EchoStar	0148, 0159, 0269, 0280, 0775, 1005, 1170, 1171
Expressvu	0775
GE	0566
General Instrument	0627, 0823, 0869, 0891, 0892
GOI	0775
Hitachi	0819
Homecable	0238
HTS	0775
Hughes Network Systems	0749, 1142, 1749
Hytek	0095
Innova	0099
IQ	0210
IQ Prism	0210
Janeil	0152
Jerrold	0627
JVC	0775
Legend	0269
Macom	0018
Magnavox	0722, 0724, 0725, 0726, 0727, 0728, 0729, 0730
Memorex	0269, 0724
Mitsubishi	0749
Motorola	0869
Netsat	0099
Next Level	0869, 0891, 0892
Panasonic	0152, 0247, 0701, 1189
Paysat	0724
Philips	9100, 0099, 0200, 0516, 0722, 0724, 0725, 0726, 0727, 0728, 0729, 0730, 0749, 1076, 1142
Primestar	0627, 0823, 0824, 0825
Proscan	0392
RCA	0143, 0392, 0566, 0855, 1107
Realistic	0052
Samsung	1108, 1109
Shack	0869

SKY	0099
Sony	0639
Star Choice	0869
Star Trak	0180
STS	0041, 0210
Toshiba	0082, 0749, 0790, 1749
Uniden	0052, 0074, 0076, 0238, 0370, 0722, 0724
Zenith	0064, 0856, 1856
SETUP CODES FOR HOME AUTOMATION	
Audio Access	0154
Auto-Tilt	0849
CablesShare	0537
Carlson	0451
Comfortex	0400
Command Center	0252
Cool Breeze	0509
Da-Lite	0780
Draper	0416
Elero	0434
Evergo	0059
GE	0240
Gewa	0095
Lightolier	0184, 1204, 1205, 1206
LiteTouch	0084
Louver Magic	0401
Lutron	0318, 0597, 1239, 1597
Luxaflex	0580
Makita	0409
Nichibeï	0416
One For All	0167, 0252
Panja	1168, 1169, 1170, 1171
Phast	1164, 1165, 1166, 1167
RadioShack	0240
Rainban	0416
Sanyo	0336
Security System	0167
Sharper Image	0846
Silent Gliss	0442
SMC	0458
Solar Drape	0402
Somfy	0438, 0780
Staron	0399
Tash	0613
TouchTronics	0104
UIC	0574
Universal	0252

Universal X10	0167
X10	0167, 0252
Xantech	0573, 0781, 0782, 0783, 0784, 0785, 0786, 0787, 0883, 0884, 0885, 0886
Yokota	0408

SETUP CODES FOR LD

ADS	0305
Aiwa	0203
Carver	0064, 0194, 0323
Denon	0059, 0172, 0241
Disco Vision	0023, 0276
Funai	0203
Harman/Kardon	0194
Hitachi	0023, 0395
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Sharp	0001
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Theta Digital	0194
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Akai	0188, 0189, 0283, 0306
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Gradiente	0407
Harman/Kardon	0029, 0182
Hitachi	0163, 0164, 0393, 0394, 0450
Inkel	0085, 0086
JVC	0244, 0273, 0274, 0303, 0304, 0310
Kenwood	0070, 0071, 0092, 0183, 0205, 0233, 0234, 0251, 0386
Koss	0472
Kyocera	0171
Luxman	0012, 0091, 0095, 0266, 0328, 0329
Magnavox	0029, 0083
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Nikko	0311, 0312, 0364, 0365
Olympus	0266
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Philips	9000, 9001, 0029
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Sherwood	0337, 0338, 0409, 0424
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Sony	0170, 0243, 0291, 0523, 0559
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Technics	0229, 0353

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Wards	0027
Yamaha	9200, 9201, 9202, 9203, 9204, 0094, 0097, 0205, 0460, 0478, 0524

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Abex	0032
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Apex Digital	0748, 0767
Archer	0003
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CXC	0180	Jensen	0050
Daewoo	0019, 0039, 0066, 0067, 0091, 0092, 0451, 0623, 0624	JVC	0036, 0053, 0069, 0160, 0169, 0182
Daytron	0019	Kamp	0216
Denon	0145, 0511	Kawasho	0158, 0216, 0308
Dumont	0017, 0019	Kaypani	0052
Dwin	0720, 0774	KEC	0180
Dynatech	0049	Kenwood	0019, 0030
Ectec	0391	Kloss	0024, 0046, 0078
Eiki	0735	Konka	0628, 0632, 0638, 0703, 0707
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Electrohome	0381, 0389, 0409, 0446	LG	0056, 0442
Emerson	0019, 0038, 0039, 0154, 0158, 0177, 0178, 0179, 0180, 0181, 0182, 0183, 0185, 0236, 0270, 0280, 0282, 0463, 0623, 0624	Loewe	0136, 0633, 0693, 0694
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Philco	0019, 0020, 0028, 0030, 0054, 0096, 0145, 0302, 0463	SKY	0037
Philips	9000, 9100, 0037, 0054, 1354, 1454	Sony	0000, 0011, 0080, 0111, 0273, 0353, 0699
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Denon 0042

Dynatech 0000

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