



# TOSHIBA

# OWNER'S MANUAL

## *Symbio*<sup>TM</sup>

### Audio/Video Hard Drive Recorder

# 160HD4

**IMPORTANT NOTE:** Toshiba Symbio AVHD recorder model 160HD4 is compatible **only** with Toshiba Integrated HD television models 51H94, 57H94, 51HX94, 57HX94, 46HM94, 52HM94, 62HM94, 52HMX94, and 62HMX94.

#### Owner's Record

The model number and serial number are on the back of your AVHD recorder. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this AVHD recorder.

Model number:

Serial number:

## Dear Customer,

Thank you for purchasing this Toshiba Symbio AVHD recorder. This manual will help you use the many exciting features of your new AVHD recorder. **Before operating the AVHD recorder, please read this manual completely**, and keep it nearby for future reference.

**WARNING:** The power cord on this product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm. **Wash hands after handling.**

## Safety Precautions

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**



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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The symbol for CLASS II (Double Insulation)

## FCC Declaration of Conformity

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.

Trade Name: TOSHIBA  
Model(s): 160HD4  
Equipment Classification: Digital Video Recorder  
Responsible Party: Toshiba America Consumer Products, L.L.C.  
82 Totowa Rd., Wayne, NJ 07470  
Phone: (973) 628-8000

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.

This Class B digital apparatus complies with Canadian ICES-003.

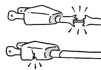

**Never modify this equipment. Making changes or modifications or opening the case will void the warranty and may void the user's authority to operate this equipment under the rules of the Federal Communications Commission.**

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**Important Note: The Symbio AVHD recorder should never be used with any television other than the Toshiba Integrated HD television models listed on page 5. The use of the Symbio AVHD recorder with any television other than those listed on page 5 is deemed misuse. Toshiba is not liable for any damage or loss caused directly or indirectly by such misuse, and any such damage is not covered under the Symbio warranty.**

## Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this 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 are 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 it exits the apparatus. 
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the 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, or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) When you use headphones, keep the volume at a moderate level. If you use headphones continuously at a high volume, your hearing may be damaged.
- 16) Never overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) If the device should smoke or smell, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then call a Toshiba Authorized Service Station to check and repair the device. Failure to do so may cause fire.
- 18) During thunderstorms, never touch the device or connecting cables.

## Installation

Follow these recommendations and precautions and heed all warnings when installing your device.

- 19) Always provide a minimum of 4 inches (10 cm) of space around all sides of the device to allow proper ventilation.
- 20) When choosing a location for the device, take into consideration the potential for damage to the device from moisture condensation. Read item 33, "Moisture condensation precautions," at right.
- 21) Always place the device on a level surface. Never use the device on a shaky, vibrating, or unstable surface such as a wobbly table or inclined stand. Before installing the device, make sure the surface can bear the weight of the device.
- 22)  **CAUTION: Risk of personal injury or serious equipment damage. Never place the device in a high location.** The device may fall, causing personal injury or serious equipment damage.
- 23) **Never place the Symbio AVHD recorder near or above other devices that emit high levels of heat** (such as audio receivers or amplifiers). Failure to observe this precaution may cause heat from the other components to rise over the Symbio AVHD recorder and overheat it.
- 24) If you place the device near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted, depending on the location of said equipment. In such an event, place the device as far away as possible from the offending equipment.
- 25) Never stack anything on top of the device.
- 26) Never cover the ventilation slots in the device's case.
- 27) Never expose the device to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the device.
- 28) Never place or store the device in direct sunlight; hot, humid areas; areas subject to excessive dust, oily smoke, or vibration; or locations with temperatures at or below 41°F (5°C). Such conditions may cause the device to malfunction or shorten its service life.
- 29) Never place the device in an area where the temperature rises or changes rapidly.
- 30) Always operate this device from a 120 VAC, 60 Hz power source only.
- 31) Never allow anything to rest on or roll over the power cord, and never place the device where the power cord is subject to wear or abuse.
- 32) Always place the device horizontally; never install it vertically.

## Moisture condensation precautions

- 33) **To prevent damage, never use the Symbio AVHD recorder when moisture condensation appears on the device.**

**Read the following carefully before installing the device.**

Moisture condensation can occur in the following situations:

- When you move the device from a cold or air conditioned room to a hot, humid room.
- When you use the device in an area in which the temperature rises or changes rapidly.
- When you place the device in an area in which cold air from an air conditioner directly hits the device.
- When you use the device in a humid area.


**Using the device when moisture condensation exists may damage the hard disc drive and other parts, and is deemed misuse. Toshiba is not liable for any damage or loss caused directly or indirectly by such misuse, and any such damage is not covered under the Symbio warranty.**

**If moisture condensation appears on the device, follow these steps:**

- a) Unplug the device's IEEE-1394 cable from the TV.
- b) Unplug the device's power cord from the AC outlet.
- c) Place the unplugged device in a dry, non-humid area for at least 6 hours.
- d) Leave the device in the dry, non-humid area, and plug the power cord into an AC outlet.
- e) Allow the device to warm up for at least 2 hours.
- f) Make sure the device is not returned to an area with conditions as described in the bulleted items above.

## Handling

For better performance and safer operation of your device, follow these recommendations and precautions.

- 34)  **WARNING: RISK OF ELECTRIC SHOCK! Never spill liquids or push objects of any kind into the slots in the device's cabinet.** Failure to follow this WARNING may result in death or serious injury.
- 35) The top of the device may become hot during use. This is normal. Always allow the device to cool before handling it.
- 36) When handling the device, always hold it horizontally.
- 37) Never shock or shake the device, especially during operation. Doing so may cause malfunction.
- 38) Never disconnect the power cord from a wall outlet while the device is recording or playing (unless it is an emergency). Before disconnecting the power cord, close all AVHD functions on the TV and make sure the REC and PLAY LEDs on the device's front panel are NOT illuminated. Unplugging the power cord during recording or playback operation may cause malfunction or equipment damage.
- 39) For added protection of your device from lightning and power surges, always unplug the power cord if you leave the device unattended or unused for long periods of time.
- 40) Never use volatile compounds (such as insecticide) near the device, and never leave rubber or plastic products in contact with the device for long periods of time. Doing so may leave marks on the finish.
- 41) When shipping the device, it is recommended that you use the original shipping carton and packing materials. For maximum protection, repack the device as it was originally packed at the factory.

(Continued on next page)




(Continued from previous page)

## Operation


- 42) This device performs occasional self-maintenance that may generate noise temporarily, even when the device is not in use. This is normal and is not a sign of malfunction. Also see item 47, at right.

## Cleaning

Follow these recommendations and precautions when cleaning the device.

- 43)  **WARNING: RISK OF ELECTRIC SHOCK!**  
**Always unplug the device's power cord before cleaning.** Failure to follow this WARNING may result in death or serious injury.
- 44) **Clean only with soft, dry cloth.** Never use liquid, aerosol, or ammonia-based cleaners; abrasive powder; or solvents (such as thinner, benzine, or alcohol) to clean the device. Such cleaners and solvents may discolor or damage the device.
- 45) Occasionally clean the dust from the ventilation slots in the device's case to ensure adequate ventilation.

## Service

- 46)  **WARNING: RISK OF ELECTRIC SHOCK!**  
**Never attempt to service the device yourself.** Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing to a Toshiba Authorized Service Station.
- 47) The internal hard disk drive in this device has a limited service life. If unexpected errors occur repeatedly or the device makes persistent noise, the hard disk drive may need servicing or replacement. Refer all servicing to a Toshiba Authorized Service Station.
- 48) This device contains lead, an ingredient of solder used on the PCB, which is a harmful substance to humans and the environment. When disposing of this device, follow the rules and regulations in your area or ask a qualified service technician to dispose of it properly.

**The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.**

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# 1 Introduction

## Welcome to Toshiba

Thank you for purchasing this Toshiba Symbio AVHD (audio/video hard drive) recorder. The goal of this manual is to guide you through setting up and operating your Symbio as quickly as possible.

- This manual applies to Toshiba Symbio AVHD recorder model 160HD4.
- **Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.**

## Supplied items

- Symbio 160HD4 AVHD recorder
- 120V AC power cord
- 6.56 ft (2m) IEEE-1394 cable (4-pin to 6-pin)
- This owner's manual

## Compatibility

Toshiba Symbio AVHD recorder model 160HD4 is compatible **only** with the following Toshiba integrated HD television models:

- 51H94
- 57H94
- 51HX94
- 57HX94
- 46HM94
- 52HM94
- 62HM94
- 52HMX94
- 62HMX94



**Important Note: The Symbio AVHD recorder should never be used with any television other than the Toshiba Integrated HD television models listed above. The use of the Symbio AVHD recorder with any television other than those listed above is deemed misuse. Toshiba is not liable for any damage or loss caused directly or indirectly by such misuse, and any such damage is not covered under the Symbio warranty.**

## Features of your new Symbio AVHD recorder

Toshiba's Symbio model 160HD4 is an audio/video hard drive (AVHD) recorder designed specifically for high definition television (HDTV). The Symbio connects via IEEE-1394 interface to Toshiba's 2004 model year integrated HD televisions to offer control over digital video recording and playback.

Unlike a traditional VCR, where you have to wait for a program to finish recording before you can start watching it, the Symbio AVHD recorder allows you to "pause live TV." For example, you can pause, rewind, and play back a program while it is being recorded.\* Since there is no tape to rewind, you can view a program that started recording 20 minutes ago, even while it is still recording.

Symbio also offers one-touch recording of both standard and high definition programs through the no-fee TV Guide On Screen™ interactive program guide built in to your Toshiba integrated HD television.

*\*Not available during one-touch or scheduled recordings.*



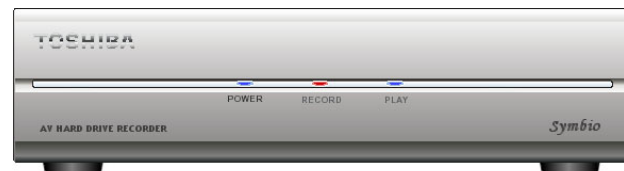
**Note: In order to use the full functionality of the Symbio AVHD recorder, you must first set up the TV Guide On Screen™ system in your Toshiba integrated HD television. For details on setting up the TV Guide On Screen system, refer to your TV owner's manual.**

## LED indications

The Symbio AVHD unit has three front-mounted LEDs that display its status, as follows:

- **POWER**—Illuminated when the unit is plugged in to an AC power source.
- **RECORD**—Illuminated when a program is being recorded.
- **PLAY**—Illuminated when a previously recorded program is being played back.

**Note:** If all three LEDs are flashing, see "Troubleshooting" on page 19.



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## 2 Connecting the Symbio AVHD recorder

### Before you connect

Before you connect your Symbio AVHD recorder, follow these recommendations and precautions, and heed all warnings.

#### ■ Read all items under “Installation” on page 3.

#### ■ Protect the Symbio AVHD recorder from moisture condensation.

When choosing a location for your Symbio AVHD recorder, take into consideration the potential for damage to the device from moisture condensation. **Read item 33, “Moisture condensation precautions,” on page 3.**

#### ■ Protect the Symbio AVHD recorder from overheating.

Because the Symbio AVHD recorder uses thermal convection to cool its internal hard disc drive, follow these guidelines to protect the device from overheating:

- **Always provide a minimum of 4 inches (10 cm) of space around all sides of the Symbio AVHD recorder.**
- Always arrange your Symbio AVHD recorder and other devices so air can circulate freely around them.
- Never block the ventilation holes on the Symbio AVHD recorder.
- Never stack other electronic devices on top of the Symbio AVHD recorder.
- **Never place the Symbio AVHD recorder near or above other devices that emit high levels of heat** (such as audio receivers or amplifiers). Failure to observe this precaution may cause heat from the other components to rise over the Symbio AVHD recorder and overheat it.

#### ■ Protect against power surges.

- Make sure all antennas and cables are properly grounded.

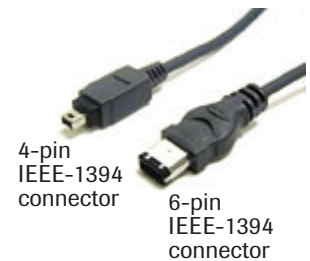
#### ■ Position cables properly to avoid interference.

- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Always keep twin lead cables away from your other audio/video cables.
- Insert each cable firmly into the designated jack.

### About IEEE-1394 cables

An IEEE-1394 device can have either 4-pin or 6-pin connectors. The Symbio AVHD recorder has 6-pin IEEE-1394 (DTVLink) ports. Toshiba integrated HD televisions have 4-pin IEEE-1394 ports.

This Symbio AVHD recorder was shipped with a **4-pin to 6-pin IEEE-1394 cable** for connection to your Toshiba integrated HD television.



### Important information about IEEE-1394 device connection

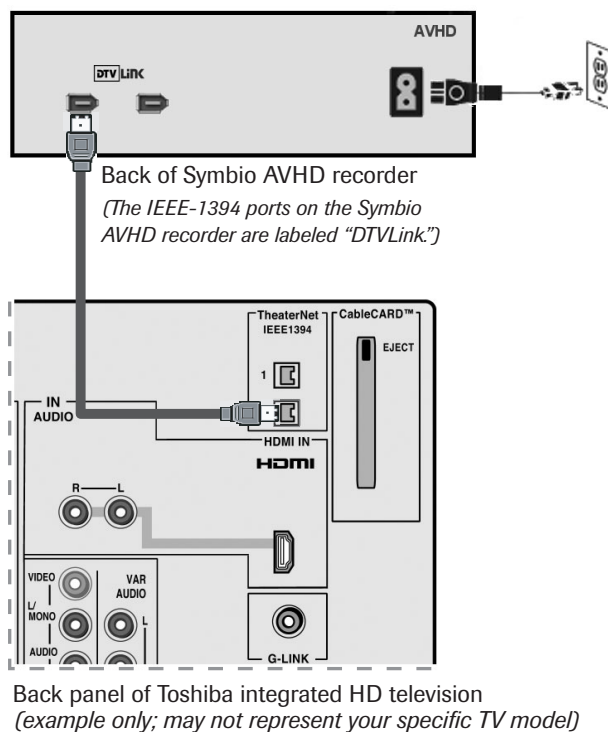
- **Always use S400 type IEEE-1394 cable.**
- You can interconnect a maximum of 16 IEEE-1394 device chains.
- Never make a “loop connection” in any IEEE-1394 device chain.

## Connecting the Symbio AVHD recorder

The back of the Symbio AVHD recorder has two 6-pin DTVLink/IEEE-1394 ports and one A/C power cord connector. IEEE-1394 devices (such as your Toshiba integrated HD television) can be connected to either DTVLink port on the Symbio. Devices must be DTVLink-certified to send/receive encrypted content.

### To connect the Symbio AVHD recorder to the Toshiba integrated HD television:

1. Connect the AC power cord to the back of the Symbio AVHD recorder, and then plug the other end into an AC outlet or surge protector.
2. Connect the smaller 4-pin end of the IEEE-1394 cable to one of the IEEE-1394 (TheaterNet) ports on the Toshiba integrated HD television.
3. Connect the larger 6-pin end of the IEEE-1394 cable to either IEEE-1394 port on the Symbio AVHD recorder.
4. Turn on the television.
5. **Wait several minutes before using the Symbio AVHD recorder.** If your Symbio AVHD recorder contains many recordings, it can take several minutes before it is fully initialized.
6. See Chapters 3 and 4 of this manual for details on configuring and using your Symbio AVHD recorder.



## Disconnecting and relocating the Symbio AVHD recorder

When moving your Symbio AVHD recorder, follow these procedures to prevent damage to the device's hard drive.

**Note: Never disconnect the power from the AVHD recorder while it is recording or playing, unless it is an emergency.** Disconnecting the power during operation may cause malfunction, equipment damage, or data loss. Before disconnecting the power, stop all AVHD operations and close all AVHD windows on the TV, and make sure the REC and PLAY LEDs on the AVHD recorder's front panel are NOT illuminated.

### To shut down and disconnect the Symbio AVHD recorder:

1. Stop all AVHD operations and close all AVHD windows on the TV.
2. Make sure the REC and PLAY LEDs on the Symbio's front panel are NOT illuminated.
3. Turn off the television.
4. Unplug the IEEE-1394 cable from the Symbio AVHD recorder.
5. Unplug the Symbio AVHD recorder's power cord from the AC outlet.
6. **Wait at least 15 seconds before relocating the Symbio AVHD recorder to ensure that the Symbio's hard drive has stopped spinning.**

**Note:** The top of the Symbio AVHD recorder can become hot during operation. This is normal. Wear protective gloves while handling it or allow the device to cool before handling it.

7. Carefully move the Symbio AVHD recorder to its new location.

**Note:** Never subject the Symbio AVHD recorder to extreme temperatures or jolting impact when moving the device.

### To reconnect the Symbio AVHD recorder:

1. Plug the Symbio AVHD recorder's power cord back in to the AC outlet.
2. Plug the IEEE-1394 cable from the television back in to the Symbio AVHD recorder.

**Note:** If the POWER LED on the front of the Symbio device does not illuminate after plugging in the power cord, check all cable connections and power sources.

3. Turn on the television.
4. **Wait at least 30 seconds before using the Symbio AVHD recorder.**



## 3 Configuring the Symbio AVHD recorder

### Configuring the device

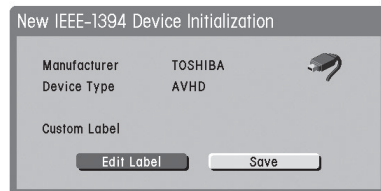
Follow these procedures to configure the Symbio AVHD recorder with your compatible Toshiba integrated HD television.

**Note:**

- See "Compatibility" on page 6 for a list of compatible TV models.
- See "Using the remote control to operate the Symbio AVHD recorder" on page 10.

### Device Initialization window

When you first connect the Symbio AVHD recorder to the TV, the Symbio device will announce its presence to the TV and the Device Initialization window will appear.



### Labeling the device

The Device Initialization window allows you to change the label for the Symbio device. This label displays in the TV's TheaterNet device list. The default device label is "Toshiba AVHD."

#### To keep the default label:

Press ◀ or ▶ on the remote control to highlight SAVE in the Device Initialization window, and press ENTER.

#### To change the label:

1. Press ◀ or ▶ to highlight EDIT LABEL and press ENTER.



2. Press ▲▼◀▶ to highlight the desired characters for the label and press ENTER.
3. When done, highlight SAVE and press ENTER.
4. The Device Initialization window reappears. Highlight SAVE and press ENTER.

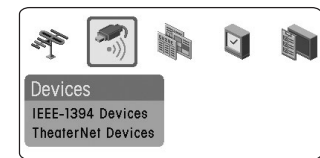
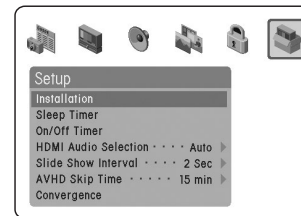
### Editing IEEE-1394 device information in the Device Management window

IEEE-1394 device information is saved in the TV's memory. You can edit this information in the Device Management window, including changing the device label, changing the analog input information (if applicable to your IEEE-1394 device), or deleting the device information from the TV's memory if you no longer use that device.

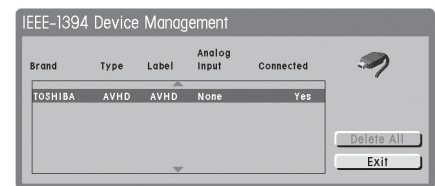
**Note:** The Symbio AVHD recorder does not use an analog input.

#### To edit the device information:

1. Press MENU and then ◀ or ▶ to open the SETUP menu.
2. Press ▲ or ▼ to highlight INSTALLATION and press ENTER. (A new set of INSTALLATION menu icons will appear on-screen, as shown in the illustration below right).
3. Press ◀ or ▶ to open the DEVICES menu.
4. Press ▲ or ▼ to highlight IEEE-1394 DEVICES and press ENTER.



5. Press ▲ or ▼ to highlight the device you want to edit and press ENTER. Follow the on-screen prompts.

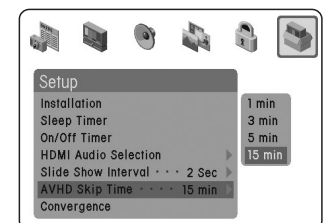


### Setting the AVHD skip time

You can skip forward or backward during playback of recorded programs. The AVHD skip time is the amount of time the device will skip each time you press SKIP/SEARCH ►► or ◄◄ on the remote control. You can set the device skip time to 1, 3, 5, or 15 minutes.

#### To set the AVHD skip time:

1. Press MENU and then ◀ or ▶ to open SETUP menu.
2. Press ▲ or ▼ to highlight AVHD SKIP TIME and press ENTER.
3. Press ▲ or ▼ to select the skip time amount (1, 3, 5, or 15 minutes) and press ENTER.



## 4 Using the Symbio AVHD recorder

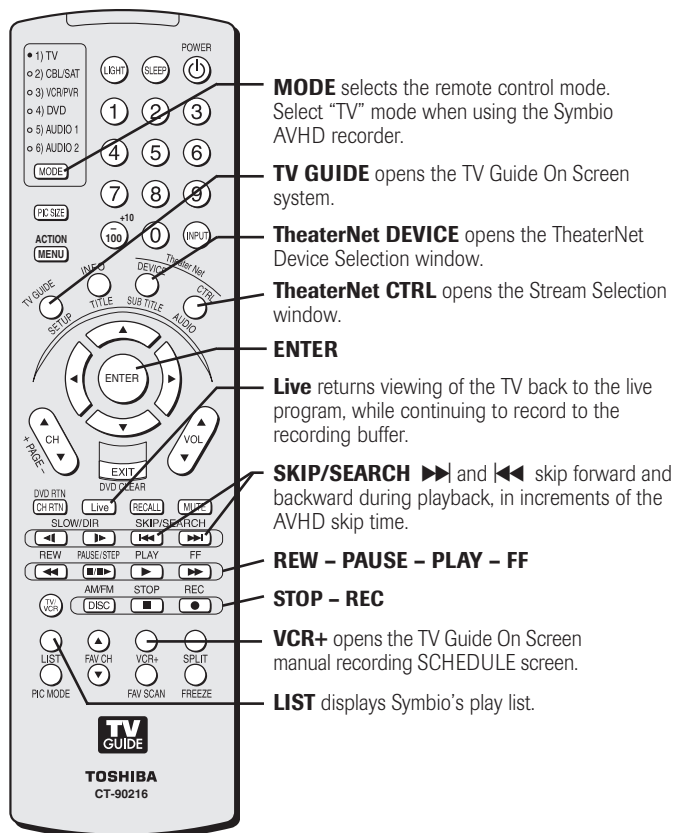
### Using the TV remote control to operate the Symbio AVHD recorder

The Symbio AVHD recorder uses commands similar to those on a standard VCR, including RECORD, PLAY, FORWARD, REVERSE (REWIND), and PAUSE. When the Symbio AVHD recorder is connected to your Toshiba integrated HD television and the remote control is in "TV" mode, the applicable remote control buttons will operate the Symbio (see illustration below).

Use remote control model CT-90216 (provided with your Toshiba integrated HD television) to operate your Symbio AVHD recorder. The buttons related to the Symbio AVHD recorder are described below. For a complete list of the remote control's functions, refer to the owner's manual for your Toshiba integrated-HD television.

#### To use the remote control to operate the Symbio:

Press MODE to select "TV" mode. (See your TV owner's manual for additional details about the remote control.)



**MODE** selects the remote control mode. Select "TV" mode when using the Symbio AVHD recorder.

**TV GUIDE** opens the TV Guide On Screen system.

**TheaterNet DEVICE** opens the TheaterNet Device Selection window.

**TheaterNet CTRL** opens the Stream Selection window.

**ENTER**

**Live** returns viewing of the TV back to the live program, while continuing to record to the recording buffer.

**SKIP/SEARCH** and skip forward and backward during playback, in increments of the AVHD skip time.

**REW - PAUSE - PLAY - FF**

**STOP - REC**

**VCR+** opens the TV Guide On Screen manual recording SCHEDULE screen.

**LIST** displays Symbio's play list.

### Important information about AVHD recording and playback

- **Never disconnect the power cord from the wall outlet or break the power supply to the Symbio AVHD recorder during recording or playback. When the power cord is disconnected or a power failure occurs during any operation of the recorder, some recorded content (typically content in the recording buffer) may be lost or become irretrievable or inaccessible.**
- Recorded image and sound quality depend very much on signal reception. Reception may be poor in weak signal areas. In this event, either consult your dealer or purchase a commercially available antenna booster. Refer to the antenna booster owner's manual for installation details.
- **Before recording important content, make a trial recording to confirm proper connection and function of your Symbio AVHD recorder. Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of the Symbio AVHD recorder, including, without limitation, failure to record content intended to be recorded by the consumer.**
- If you attempt to change channels or inputs while a recording is in progress, the message "NOT AVAILABLE WHILE RECORDING" will appear on-screen.
- Standard Definition (SD) programming is typically transmitted at 4 to 8 megabits per second, depending on the content and content provider. High Definition (HD) programming is typically transmitted at 19 megabits per second. Although HD programming is higher quality, it may take up more than 3 times as much space on your Symbio's hard drive as SD programming of the same length.
- The Symbio AVHD recorder uses special hardware and advanced content protection schemes\* to securely record and play back, over the IEEE-1394 interface, content that is not subject to copyright protection as well as allowable copy-protected material (such as "copy once" content or content that is viewable for a limited amount of time). Also, some content providers do not allow their content to be recorded at all. If you attempt to record unauthorized material, the Symbio's recording functions (including scheduled recordings) may be prevented or stopped.

*\*This device incorporates DTCP (digital transmission content protection) technology licensed by the DTLA (digital transmission licensing administrator).*

**The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.**

## Controlling live TV

After you connect the Symbio AVHD recorder to your Toshiba integrated HD television, set up the TV Guide On Screen system, and tune the TV to a channel, the Symbio automatically starts recording the tuned program. The Symbio will continue to record content up to 60 minutes behind the live broadcast. This 60-minute recording buffer allows you to pause or reverse any time while watching live TV, and then resume playback from the point you paused or reversed, so you don't miss any portion of the program.

**Note:**

- **You cannot save programs recorded in the 60-minute recording buffer.** To save a recording, see "Recording programs" on page 12.
- If the Symbio is paused for more than 60 minutes, it will automatically begin playback 60 minutes behind live TV.
- If the Symbio's hard drive is full, you will not be able to pause live TV and the TV will display the message "Error: AVHD is full" (see page 19).

If you change the channel or input, the Symbio will stop the buffered recording and begin again on the new channel (if it is tuned to an ANT 1 or ANT 2 program).

For additional functions, see "Live TV and Time-Shift Control window remote control functions," at right.

Also see "Pausing live TV" on page 18.

## Using the Time-Shift Control window

When you pause live TV, the buffered recording is "time-shifted" and the Time-Shift Control window (illustrated below) opens. This window displays the current playback position of the program in reference to the beginning and end of the live broadcast.

**Note:**

- The end point of the recording in the Time-Shift Control window will continue to move as the live TV broadcast is recorded to the buffer.
- If the Symbio's hard drive is full, you will not be able to pause live TV and the TV will display the message "Error: AVHD is full" (see page 19).
- The Time-Shift Control window closes automatically after 5 minutes of inactivity; or you can press EXIT to close the window immediately.

You can fast forward or skip forward in the program until you reach the point of the live broadcast.

For additional functions, see "Live TV and Time-Shift Control window remote control functions," at right.



### Live TV and Time-Shift Control window remote control functions

Button	Function
PAUSE	Pauses playback and opens the Time-Shift Control window. <b>Note:</b> If the Symbio is paused for more than 60 minutes, it will automatically begin playback 60 minutes behind live TV.
REW (3x, 15x, 60x)	Opens the Time-Shift Control window and starts reversing. If you do not press PLAY, it will continue reversing until it reaches the beginning of the recording buffer or recorded program, and then resumes live TV viewing and buffering.
FF (3x, 15x, 60x)	Opens the Time-Shift Control window and starts fast forwarding. If you do not press PLAY, it continues fast forwarding until it reaches the end of the recording buffer, and then resumes normal playback.
SKIP/SEARCH ▶▶ or ◀◀	While the Time-Shift Control window is open, pressing SKIP/SEARCH ▶▶ or ◀◀ skips backward or forward through the recording buffer or recorded program in increments of the defined skip time*. (You also can press ◀ or ▶.) <i>*The skip time can be set to 1, 3, 5, or 15 minutes. See "Setting the AVHD skip time" on page 9.</i>
EXIT	Closes the Time-Shift Control window.
PLAY	Opens the Time-Shift Control window and begins normal playback from the point you time-shifted the program.
LIVE	Closes the Time-Shift Control window and returns TV viewing to the live broadcast, while continuing to record to the buffer.

## Recording programs

The Symbio AVHD recorder supports recording using the TV Guide On Screen system in your Toshiba integrated HD television. Refer to your TV owner's manual for details on setting up and using the TV Guide On Screen system and configuring scheduled recordings.

### Note:

- **In order to use the full functionality of Symbio, you must first set up the TV Guide On Screen system in your Toshiba integrated HD television.** See your TV owner's manuals for details.
- You can record from the ANT 1, ANT 2, and VIDEO 1 inputs **only**.

## One-touch recording

After connecting the Symbio AVHD recorder to your Toshiba integrated HD television and setting up the TV Guide On Screen system in your TV, you can record immediately.

### To record immediately (one-touch recording):

1. Tune the TV to the channel or input you want to record (ANT 1, ANT 2, or Video 1 **only**).
2. Press REC on the remote control to begin recording immediately.

### To stop recording:

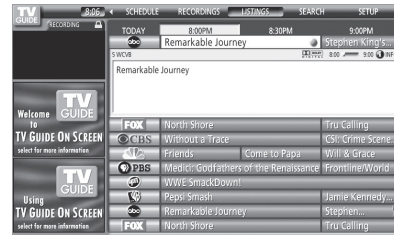
Press REC again.

## One-touch recording using the TV Guide On Screen LISTINGS screen

1. Press TV GUIDE on the remote control to open the TV Guide On Screen system.
2. Press ◀ or ▶ to open the LISTINGS screen.
3. Press ▲ or ▼ to highlight the program you want to record.
4. Press REC to begin recording *when the program begins*. If the program has already begun, the recording will start immediately.

## Scheduling a manual recording in the TV Guide On Screen LISTINGS screen

1. Press TV GUIDE on the remote control to open the TV Guide On Screen system.
2. Press ◀ or ▶ to open the LISTINGS screen.



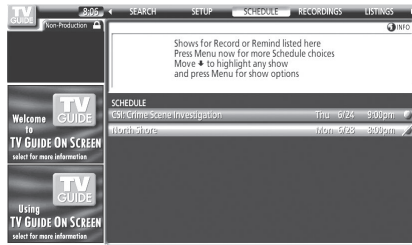
3. Press ▲ or ▼ to highlight the program you want to record and then press MENU.
4. Select SET RECORDING and press ENTER.
5. Enter the required information in the panel menu. When you are done setting up the recording, press ▲ or ▼ to highlight SCHEDULE RECORDING and press ENTER.
  - The TV Guide On Screen panel menu will automatically enter the default Start and Stop times for the recording based on TV Guide On Screen program data.
  - You can select other options in this panel menu, such as how long before or after a scheduled program you would like the recording to end.
  - If you do not want to schedule the recording, press ▼ to highlight CANCEL and press ENTER, or press the TV GUIDE button on the remote control to close the TV Guide On Screen LISTINGS menu.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## Recording programs (continued)

### Scheduling a manual recording in the TV Guide On Screen SCHEDULE screen

1. Press TV GUIDE on the remote control to open the TV Guide On Screen system.
2. Press ◀ or ▶ to open the SCHEDULE screen and then press MENU.



3. Press ▲ or ▼ to highlight NEW MANUAL RECORDING and then press ENTER.
4. Enter the required information in the panel menu. When you are done setting up the recording, press ▲ or ▼ to highlight SCHEDULE RECORDING and press ENTER.

If you do not want to schedule the recording, press ▼ to view additional options, highlight CANCEL, and press ENTER, or press the TV GUIDE button on the remote control to close the TV Guide On Screen SCHEDULE menu.

## Stopping or canceling a recording

### To stop a recording already in progress:

Press REC to stop the current recording.

### To cancel a scheduled or manual recording:

1. Highlight the scheduled recording in the TV Guide On Screen LISTINGS or SCHEDULE screen, and press MENU.
2. Highlight DELETE RECORDING and press ENTER.
3. Highlight YES to confirm that you want to delete the recording, and press ENTER.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## Managing recorded programs

Your Toshiba integrated HD television and Symbio AVHD recorder allow you to easily manage your recorded programs using the Stream Selection and Modify Program windows.

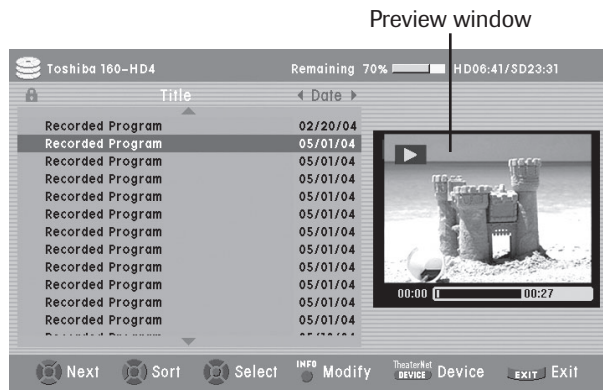
### Displaying a list of recorded programs in the Stream Selection window

#### To open the Stream Selection window and display a list of recorded programs:

1. Press LIST on the remote control.

**Note:**

- After pressing LIST, it can take several seconds for the Stream Selection window to appear.
- When you press LIST, the TV's input is changed to IEEE-1394.
- To open the Stream Selection window using the menus, press TheaterNet DEVICE; press ▲ or ▼ highlight the Symbio AVHD device; and then press ENTER.



2. Press ▲ or ▼ to highlight the desired recording. The highlighted program will appear in the preview window and start playing from the beginning of the program.
3. Press ENTER to close the Stream Selection window and watch the highlighted program on the full TV screen.

**Note:** The program will play from its beginning when you close the Stream Selection window.

The Stream Selection window also displays the AVHD recorder's remaining recording capacity as a percentage of total capacity.

For additional functions, see "Stream Selection window remote control functions," at right.

### Sorting recorded programs in the Stream Selection window

The recorded programs listed in the Stream Selection window are listed, by default, in order of the date they were recorded.

To sort the programs alphabetically by title, press ◀.

To sort the programs by date, press ▶.

#### Stream Selection window remote control functions

Button	Function
LIST	Opens the Stream Selection window.
TheaterNet DEVICE	Opens the TheaterNet Device Selection window, from which you can select an IEEE-1394 device to view. After selecting a device, the Stream Selection window opens.
▲	Highlights the previous program in the list and starts playing the program, from its beginning, in the preview window.
▼	Highlights the next program in the list and starts playing the program, from its beginning, in the preview window.
◀	Sorts the programs alphabetically by title.
▶	Sorts the programs by date (default).
INFO	Displays the Modify Program window (page 15) for the highlighted program. Press EXIT to close the Modify Program window.
ENTER	Closes the Stream Selection window and starts playing the highlighted program on the full TV screen from its beginning.
EXIT	Closes the Stream Selection window and continues playing the highlighted program on the full TV screen from the point it was playing in the preview window.

## Managing recorded programs (continued)

### Deleting, locking, and unlocking recorded programs in the Modify Program window

The Symbio AVHD recorder can record a maximum of 300 programs. (The total number will be less than 300 if you record several long programs or high-definition programs that use up the 160 GB\* hard drive capacity). If you attempt to record more than 300 programs, a warning message will display and you will need to delete some programs before you can begin recording again.

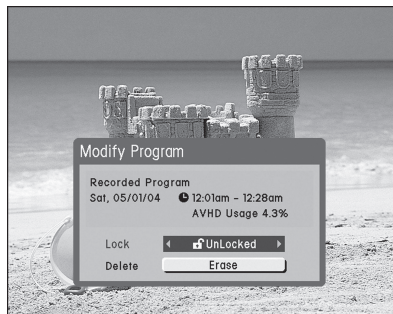
If the Symbio's hard drive becomes full during recording, it will start overwriting previously recorded programs that are not locked. You can lock recorded programs so they are not accidentally deleted or overwritten.

#### Note the following:

- If the hard drive becomes full, unlocked programs will be overwritten during recording.
- If the hard drive becomes full during recording and all recorded programs are locked (and subsequently cannot be overwritten), a warning message will display and recording will stop.

#### To lock or unlock a recorded program:

1. Press TheaterNet DEVICE to open the TheaterNet Device Selection window.
2. Press ▲ or ▼ to highlight the Symbio AVHD and press ENTER. The TV's Stream Selection window opens, displaying a list of all recorded programs for the selected device (see page 14).
3. Press ▲ or ▼ to highlight the recording you want to modify, and then press INFO to open the Modify Program window (illustrated at right).
4. Press ◀ or ▶ to select either Locked or Unlocked, and then press ENTER.



#### To delete a recorded program:

1. Follow steps 1–4 above, and select “Unlocked” in step 4 (if the program is locked).
2. Press ▼ to highlight ERASE, and then press ENTER.

**Note:** You cannot delete a locked program. You must unlock it before you can delete it.

#### Modify Program window remote control functions

Button	Function
TheaterNet DEVICE	Opens the TheaterNet Device Selection window, from which you can select an IEEE-1394 device to view. After selecting a device, the Stream Selection window opens (see page 14). Highlight a program and press INFO to open the Modify Program window for that program.
TheaterNet CTRL	Closes the Modify Program window (if open) and opens the Stream Selection window (see page 14).
▼	Highlights ERASE (if the program is unlocked).
▲	Highlights the LOCK field.
◀▶	Locks/unlocks the highlighted program (if the LOCK field is highlighted).
ENTER	Performs the highlighted operation.
EXIT	Closes the Modify Program window.

\*When referring to hard drive capacity, a gigabyte (GB) means one billion bytes. Not all clusters contained in the 160 GB hard drive are useable for recording because a portion of the drive space is allotted for directory information.

## Playing recorded programs

### Displaying play location and total record time in the Remote Panel window

After you select a program in the Stream Selection window (page 14) and it is playing in full screen on the TV, if you press PLAY, FF, REW, or PAUSE, the Remote Panel window (illustrated below) will open, displaying the play location and total record time of the program.

The Remote Panel window is not modifiable and closes automatically after 5 seconds of inactivity.



### Controlling playback using the AVHD Control Panel window

After you select a program in the Stream Selection window (page 14) and it is playing in full screen on the TV, you can press TheaterNet CTRL to open the AVHD Control Panel window (illustrated below), from which you can control playback.

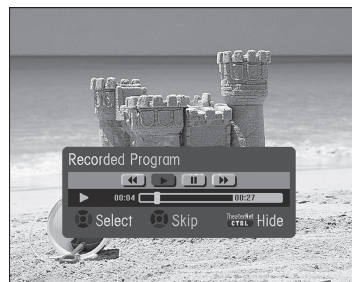
Press ▲ or ▼ to move the highlight between the control buttons and the slider bar.

When a control button is highlighted, press ◀ or ▶ to highlight a different control button, and then press ENTER to activate the highlighted function.

When the slider bar is highlighted, press ◀ or ▶ to move the slider bar, which will skip backward/forward from the current play time in increments of the defined skip time (see "Setting the AVHD skip time" on page 9).

Press TheaterNet CTRL again to return to the Stream Selection window, or press EXIT to close the AVHD Control Panel window and resume watching the program from the point you skipped to.

**Note:** The PLAY, PAUSE, FF, REW, and SKIP/SEARCH buttons on the remote control function in the same manner as the related on-screen functions in the AVHD Control Panel window. If you press one of these remote control buttons while the Control Panel window is open, the window will close automatically after 5 seconds of inactivity.



#### AVHD Control Panel window remote control functions

Button	Function
▼	Highlights the slider bar to perform a skip.*
▲	Highlights the control buttons.**
◀ or ▶	*When the slider bar is highlighted, pressing ◀ or ▶ moves the slider bar left/right, which will skip backward/forward from the current play time in increments of the defined skip time. **When a control button is highlighted, pressing ◀ or ▶ highlights a different control button. Press ENTER to perform the highlighted function.
ENTER	Performs the highlighted function.
TheaterNet DEVICE	Opens the TheaterNet Device Selection window.
TheaterNet CTRL	If no program is playing, opens the Stream Selection window (see page 14). If a program is playing, opens the AVHD Control Panel window.
LIST	Opens the Stream Selection window.
PLAY	Begins normal playback.
PAUSE	Pauses playback.
FF (3x, 15x, 60x)	Fast forwards playback (see page 17).
REW (3x, 15x, 60x)	Fast reverses playback (see page 17).
SKIP/SEARCH ►►	Skips forward in increments of the defined AVHD skip time (see page 9).
SKIP/SEARCH ◄◄	Skips backward in increments of the defined AVHD skip time (see page 9).
STOP	Opens the Stream Selection window and plays the program in the preview window.
EXIT	Closes the AVHD Control Panel window.



## Playing recorded programs (continued)

### Using fast reverse (REW) and fast forward (FF) during playback

The Symbio AVHD recorder allows you to fast reverse and fast forward through both live (buffered recording) and recorded programs.

#### To use fast reverse while watching a buffered live program or recorded program:

1. Repeatedly press REW to cycle through the fast reverse speeds (3x, 15x, and 60x).  
The fast reverse playback speed will display in the AVHD Control Panel window (see page 16).  
**Note:** You cannot fast reverse a recording to a point before you started recording it.
2. Press PLAY to stop fast reverse playback and return to normal playback.

#### To use fast forward while watching a buffered live program or recorded program:

1. Repeatedly press FF to cycle through the fast forward speeds (3x, 15x, and 60x).  
The fast forward playback speed will display in the AVHD Control Panel window (see page 16).  
**Note:**
  - You can use fast forward during live broadcasts only if the program has been time-shifted (see page 11).
  - You cannot fast forward a buffered recording to a point beyond the live broadcast.
2. Press PLAY to stop fast forward playback and return to normal playback.

### Using skip reverse (SKIP/SEARCH ◀◀) and skip forward (SKIP/SEARCH ▶▶) during playback

The Symbio AVHD recorder allows you to skip backward and forward in increments of the defined skip time during recorded playback. The skip time can be set to 1, 3, 5, or 15 minutes.

To set the skip time, see “Setting the AVHD skip time” on page 9.

You can use the skip reverse feature to quickly jump backward during buffered live or recorded shows. For example, you can see an instant replay or watch a missed scene.

You can use the skip forward feature to quickly jump ahead during live\* or recorded shows. For example, you can jump past programs and undesired scenes without having to watch them (as you would using fast forward).

#### To use skip reverse while watching a buffered live or recorded show:

Repeatedly press SKIP/SEARCH ◀◀ to skip backward in increments of the defined skip time.

#### To use skip forward while watching a buffered live\* or recorded show:

Repeatedly press SKIP/SEARCH ▶▶ to skip forward in increments of the defined skip time.

\*Skip forward can be used during live broadcasts only if the show is being recorded and you are watching the show delayed by more than the defined skip time.

## Using the PAUSE function

You can press PAUSE to freeze the screen image during either buffered recording of live programs or playback of previously recorded programs.

### Pausing during playback of a recorded program

When you press PAUSE during playback of a recorded program, the images freezes and playback stops (similar to the way a VCR functions).

Press PLAY to resume playback from the point it was paused.

### Pausing live TV

When you press PAUSE while viewing live TV, the image freezes and the Time-Shift Control window (illustrated below) opens, displaying the present location of the paused image in reference to the rest of the buffered recording and the location of the live TV broadcast.



- Press PLAY to begin playback from the paused location. The recording is now time-shifted and you can fast forward or skip forward in the program until you reach the point of the live broadcast.
- Press ◀ or ▶ to skip forward or backward from the current play location in increments of the defined AVHD skip time (see page 9).
- Press LIVE to close the Time-Shift Control window and return to live programming.
- Press EXIT to close the Time-Shift Control window.

**Note:** If the Symbio's hard drive is full, you will not be able to pause live TV and the TV will display the message "Error: AVHD is full" (see page 19).

# 5 Appendix

## Troubleshooting



**Note:** In order to use the full functionality of the Symbio AVHD recorder, you must first set up the TV Guide On Screen™ system in your Toshiba integrated HD television. For details on setting up the TV Guide On Screen system, refer to your TV owner's manual.

### PROBLEM: The Symbio AVHD recorder does not respond.

- Unplug the Symbio's AC power cord and plug it back in.
- Make sure the device is properly connected and all cables are seated properly.
- If the device does not appear in the TV's Device Selection window, unplug the IEEE-1394 cable from the Symbio's IEEE-1394 (DTVLink) port and reconnect it.
- Make sure the TV is selecting the IEEE-1394 video input by pressing TheaterNet DEVICE on the remote control, and selecting "AVHD."

### PROBLEM: The Symbio AVHD recorder is making noise.

- This device performs occasional self-maintenance that may generate noise temporarily, even when the device is not in use. This is normal and is not a sign of malfunction.
- The internal hard disk drive in this device has a limited service life. If unexpected errors occur repeatedly or the device makes persistent noise, the hard disk drive may need servicing or replacement. Refer all servicing to a Toshiba Authorized Service Station.

### PROBLEM: All three LED lights are flashing.

- When all three front panel LEDs are flashing on and off, the Symbio AVHD is overheating. Follow this procedure immediately:
  1. Stop all AVHD operations and close all AVHD windows on the TV.
  2. Turn off the TV and unplug the power cord from the AC outlet.
  3. Unplug the IEEE-1394 cable from the Symbio AVHD recorder.
  4. Unplug the Symbio AVHD recorder's power cord from the AC outlet.
  5. **Wait at least 15 seconds before relocating the Symbio AVHD recorder to ensure that the Symbio's hard drive has stopped spinning.**



**Note:** Because the device is hot, it is recommended that you wear protective gloves when handling it.

6. When the Symbio has cooled, plug in the power cords and turn on the TV.
7. Make sure the Symbio's POWER light is illuminated, and then reconnect the IEEE-1394 cable.

### PROBLEM: The program did not record.

- Check the connections on the back of the TV and the Symbio AVHD recorder.
- Make sure the TV Guide On Screen system was configured correctly. See your Toshiba integrated HD television owner's manual for details.
- The Symbio's hard drive may be full. Delete unwanted recorded programs. If they are locked, you must unlock them before deleting them.
- If you change the input while pausing live TV, when you return to the input that was paused, it will return to live TV and no recording will have taken place.

### ERROR MESSAGE: "Error: AVHD is full."

This message appears when you try to exceed the Symbio's hard drive capacity.

**SOLUTION:** Delete unwanted recorded programs. If they are locked, you must unlock them before deleting them.

### ERROR MESSAGE: "This television only supports a single AVHD. The extra AVHD has been ignored."

This message appears when a second AVHD device has been connected, to let you know that the extra AVHD has been ignored.

**SOLUTION:** If you have multiple AVHD devices, connect only one at a time to the TV.

### ERROR MESSAGE: "Program recorded has failed. Please delete some programs from your AVHD."

The AVHD can store a maximum of 300 different programs (as long as the total recording capacity is not exceeded). This message appears when you try to exceed the 300-program limit.

**SOLUTION:** Delete unwanted recorded programs. If they are locked, you must unlock them before deleting them.

### ERROR MESSAGE: "Error: Unknown AVHD error"

This message appears when an error occurs that is not recognized by the television.

**SOLUTION:** Disconnect the IEEE-1394 cable and power cord from the AVHD recorder. Wait 30 seconds and then reconnect.

**Note:** See "Disconnecting and relocating the Symbio AVHD recorder" on page 8 for proper disconnection/reconnection procedures.

(Continued on next page)



## Troubleshooting (continued)

**ERROR MESSAGE: "There is not enough AVHD space available for the pause live television operation."**

This message appears when there is not enough hard drive space available to pause live television.

**SOLUTION:** Delete unwanted recorded programs. If they are locked, you must unlock them before deleting them.

**ERROR MESSAGE: "There is not enough AVHD space available for recording."**

This message appears when there is not enough hard drive space available for recording or when all recorded programs have been locked.

**SOLUTION:** Delete unwanted recorded programs. If they are locked, you must unlock them before deleting them.

**ERROR MESSAGE: "The attached AVHD does not support this feature."**

This message appears when you select a feature that the AVHD recorder does not support.

**ERROR MESSAGE: "IEEE-1394 cable is disconnected."**

This message appears when you unplug the IEEE-1394 cable or power cord from the AVHD.

**SOLUTION:** Make sure the power cord is connected to the AVHD and the POWER light is illuminated. Reconnect the IEEE-1394 cable.

**Note:** See *"Disconnecting and relocating the Symbio AVHD recorder"* on page 8 for proper disconnection/reconnection procedures.

## Specifications

**NOTE:**

- **This model complies with the specifications listed below.**
- **Designs and specifications are subject to change without notice.**
- **This model may not be compatible with features and/or specifications that may be added in the future.**

### Interface Specifications

- DTVLink and IEEE-1394 compliant.
- AV/C compliant.
- Supports 400 Mb/sec maximum serial bus data transfer rates.
- Two external 6-pin IEEE-1394 ports.
- Hot-plug capable.

### Drive Capacity

160 gigabytes (GB)\*

*\*When referring to hard drive capacity, a gigabyte (GB) means one billion bytes. Not all clusters contained in the 160 GB hard drive are useable for recording because a portion of the drive space is allotted for directory information.*

### Recording Capacity

High definition: 16 hours max.\*\*

Standard definition: 80 hours max.\*\*

*\*\*Actual recording times will vary depending on the bit rate of the program being recorded.*

### Environmental Conditions

Operating temperature: 41° to 95° F (5° to 35° C)

Acoustics (typical) idle mode: 33 dBA average

### Power Requirements

AC input voltage: 120V AC +/- 10V

AC input frequency: 50–60 Hz

AC input current: 0.6A max. (RMS)

### Dimensions

Height: 2.0 in. (5 cm)

Length: 10.5 in. (22.25 cm)

Width: 8.45 in. (21.13 cm)

## Limited United States Warranty for Toshiba AVHD recorders

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

**THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS AVHD RECORDER AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.**

**PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.**

**PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.**

### Limited One (1) Year Warranty on Parts and Labor\*

TACP warrants this AVHD recorder and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. YOU MUST CONTACT TACP'S CUSTOMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN-WARRANTY REPAIR REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE AVHD RECORDER TO THE TOSHIBA AUTHORIZED SERVICE STATION.

### Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

### \*Limited Warranty for Commercial Units

TACP warrants AVHD recorders sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. YOU MUST CONTACT TACP'S CUSTOMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN-WARRANTY REPAIR REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE AVHD RECORDER TO THE TOSHIBA AUTHORIZED SERVICE STATION.

### Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this AVHD recorder.

Register your product online at [www.tacp.toshiba.com/service](http://www.tacp.toshiba.com/service) as soon as possible. By registering your product you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to register your product does not diminish your warranty rights.

### Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this AVHD recorder must be performed by a Toshiba Authorized Service Station.

- (3) These warranties from TACP are effective only if the AVHD recorder is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any AVHD recorder or parts that have been lost or discarded by you or to damage to the AVHD recorder or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) Call TACP's Customer Solutions Center toll-free at 1-800-319-6684.
- (2) Present your bill of sale or other proof of purchase to the Toshiba Authorized Service Station.

**For additional information, visit TACP's web site:  
[www.tacp.toshiba.com](http://www.tacp.toshiba.com).**

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE, OR INABILITY TO USE THIS PRODUCT).

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THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

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## Limited Canada Warranty

### for Toshiba AVHD recorders

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS AVHD RECORDER AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

#### Limited One (1) Year Warranty on Parts and Labor\*

TCL warrants this AVHD recorder television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. YOU MUST CONTACT A TCL AUTHORIZED SERVICE DEPOT FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN-WARRANTY REPAIR REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE AVHD RECORDER TO THE SERVICE DEPOT.

#### Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

#### \*Limited Warranty for Commercial Units

TCL warrants AVHD recorders sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. YOU MUST CONTACT A TCL AUTHORIZED SERVICE DEPOT FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN-WARRANTY REPAIR REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE AVHD RECORDER TO THE SERVICE DEPOT.

#### Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this AVHD recorder.

Register your product online at [www.toshiba.ca](http://www.toshiba.ca) as soon as possible. By registering your product you will enable TCL bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to register your product does not diminish your warranty rights.

#### Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this AVHD recorder must be performed by a TCL Authorized Service Depot.
- (3) These warranties from TCL are effective only if the AVHD recorder is purchased in Canada from an authorized TCL dealer and operated in Canada.

- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any AVHD recorder or parts that have been lost or discarded by you or to damage to the AVHD recorder or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; use or malfunction through simultaneous use of this product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

#### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site at [www.toshiba.ca](http://www.toshiba.ca).
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot.

**For additional information, visit TCL's web site:**  
[www.toshiba.ca](http://www.toshiba.ca)

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE, OR INABILITY TO USE THIS PRODUCT).

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE IN CANADA. SOME PROVINCES OF CANADA DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

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## **TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.**

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NATIONAL SERVICE DIVISION: 1420-B TOSHIBA DRIVE, LEBANON, TN 37087, U.S.A.

## **TOSHIBA OF CANADA LTD.**

HEAD OFFICE: 191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA – TEL: (905) 470-5400  
SERVICE CENTERS:

TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO L3R 8H2, CANADA – TEL: (905) 470-5400  
MONTREAL: 18050 TRANS CANADA, KIRKLAND, QUEBEC, H9J 4A1, CANADA – TEL: (514) 390-7766  
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