1. INTRODUCION

The AnyHD Recorder employs HDMI[™] technology to receive video from various input sources (HDMI, Component and CVBS) in either digital or analog format. The AnyHD Recorder then stores the video directly onto a portable USB hard disk or high speed pen drive. It uses H.264 TS format, which guarantees very efficient compression and timely delivery. Both digital and analog input/output audio are supported through HDMI, RCA or phone jack interfaces. Recorded video can be played back on any media player, Blu-Ray Disc player or PC/NB that supports AVCHD M2TS file format.

1.1 AnyHD Recorder Kit Contents

The AnyHD Recorder kit contains the components listed below. If anything in the list is missing or damaged, contact your dealer immediately.

Package Contents

- A. AnyHD Recorder x1
- B. AC to DC Power Adaptor x1
- C. Remote Controller x1
- D. HDMI Cable x1
- E. YPbPr component cable x1
- F. AV cable x1



In addition to the kit, a USB hard disk or pen drive, a video player (DVD player, Blu-Ray Disc player, Set-top box, VHS player, etc.) and an HDTV are needed.

Note: Power adaptor specifications will vary, depending on country or region.

2. PRODUCT DESCRIPTION

2.1 Front Panel Descriptions



The diagram above shows the front panel layout, which is described, from left to right, as follows:

- MIC: Microphone input. It could also support audio line in from the earphone output of MP3 or smart phone.
- POWER LED: Illuminates when the system is in use.
- USB Interface: Connects to an external USB storage device, such as a USB pen drive or USB HDD.
- CVBS Source LED: Illuminates when CVBS is the selected input source. It flashes when CVBS is selected but the CVBS video signal is unavailable from the source.
- YPbPr Source LED: Illuminates when the YPbPr (Component) input source is selected. It flashes when no YPbPr is selected but the video signal is unavailable from the source.
- HDMI Source LED: Illuminates when the HDMI is the selected input source. It flashes when HDMI is selected but the HDMI video signal is unavailable from the source.
- Source Selection button: Selects the input source from one of the three source selections; HDMI, YPbPr or CVBS.
- REC LED: Flashes when the system is recording.
- REC Start/Stop button: Starts and stops recording.
- IR Input: IR sensor for the remote controller.

2.2 Rear Panel Descriptions



The diagram above shows the rear panel layout and is described from left to right, as follows:

- DC-IN12V DC Input: For use with the power adaptor included in the package.
- Power On/Off switch
- CVBS input: Composite video input.
- L-Audio-R: Stereo audio input for use with component or composite video input.
- YPbPr input: Component video input.
- HDMI input: HDMI input interface.
- HDMI BYPASS output: Loop-through output for audio/video input that is almost no latency with the input, but without OSD menu.
- HDMI output: HDMI output interface.
- CVBS output: Composite video output.
- L-Audio-R: Stereo audio output.
- YPbPr: Component video output.

3. QUICK SETUP GUIDE

The Quick Setup Guide section describes how to get your AnyHD Recorder environment quickly installed. Once setup is complete, you will be able to record the video from a video source onto a portable USB storage device. For this setup you will also need:

- HDTV with HDMI or YPbPr connectors.
- Video player (e.g. Blu-Ray player, DVD player) with HDMI, YPbPr or CVBS connectors.
- USB Hard Drive or USB Pen Drive (with FAT32 file system)

Step 1: Connect the Video Player to the HDTV Recorder

Connect your Video player to the rear panel of the AnyHD Recorder. The AnyHD Recorder can use HDMI, YPbPr or CVBS cables for input. You must choose from one of those three cabling options as shown below.

- a) HDMI–The HDMI cable (shown right) uses a simple, single connection. Connect one end of the HDMI cable to the Input HDMI connector as shown (right). Connect the other end to your video player. Note: Audio is also delivered through this cable.
- b) YPbPr– YPbPr cables have 3 connectors, each color coded (green, blue and red). Simply match the colors on the connectors with the color coded adapters on the AnyHD Recorder (top row - shown right).

Since YPbPr video cables do not carry audio, you must also attach an audio cable between the player and recorder (bottom row); this cable will have 2

connectors (left-right speakers, usually red and white). You will need to connect a total of 5 connectors. Attach the other ends to your Video Player.

c) CVBS– The CVBS cable is a single cable with a video connector (usually yellow). You will also need to attach two audio connectors (for L-R speakers, usually red and white). The CVBS cable may come as a single cable with the 3 connectors at each end. Attach the other ends to your Video Player.

Note: If your Video Player gives you a choice of using HDMI, YPbPr and CVBS, it is better to choose HDMI for ease of installation. Also, HDMI and YPbPr picture quality are both noticeably better than CVBS.







d) MIC– In general, it is a 3.5mm phone jack that could accept microphone input or audio line in. It could be connected with the earphone output of MP3 player, smart phone or PC/NB.

Step 2: Connect the HDTV set to the HDTV Recorder

Connect your AnyHD Recorder to the HDTV. The AnyHD Recorder is capable of using HDMI, YPbPr or AV(CVBS) cables for output. You must choose from one of those three options as shown below for playback.

- a) HDMI–The figure to the right shows an HDMI cable connection to the AnyHD Recorder's HDMI output port (HDMI BYPASS or PLAYBACK.) Attach the other end to your HDTV. You could use the BYPASS HDMI output when you are connecting the device with a PC/NB or game console simultaneously. For those applications that could not accept video latency when operation, you should also use the BYPASS HDMI port for monitoring and use the PLAYBACK port (HDMI, YPbPr or CVBS) for playing the recorded video files.
- b) YPbPr– Connect the YPbPr cables, matching the colors between the connectors and adapters (top row - shown right). There are two audio connectors for the L-R audio connectors below the YPbPr adapters. Attach the other ends of all the cables to your HDTV.
- c) CVBS–The CVBS cable is a single cable with a video connector (usually yellow). You will also need to attach two audio connectors (for L-R speakers, usually red and white). The CVBS cable may come as a single cable with the 3 connectors at each end. Attach the other ends to your TV.

Note: The connections you use between input and output do not have to be the same. In other words, if you are using an HDMI cable for input, you can use YPbPr for output.



(for Playback)

Output

Output



Step 3: Connect the USB Storage Device to the AnyHD Recorder

Connect your portable USB storage device to the USB port of the AnyHD Recorder. The AnyHD Recorder supports the FAT32 file system format only. You must confirm that your USB storage device is FAT32 compliant. If you are unsure about FAT32, simply use an empty or new USB storage device and format it (ALL DATA WILL BE ERASED) using the USB

utility in the AnyHD Recorder's OSD (On Screen Display) menu (explained later).

Note: You must always plug in the USB storage device before turning on the AnyHD Recorder. Also, you should power down the AnyHD Recorder before detaching the USB device

Step 4: Connect the power cable to the AnyHD Recorder

Connect the DC power cable of the power adaptor to the AnyHD Recorder. Connect the power adaptor to a wall socket with the appropriate voltage.

Step 5: Power on TV set and Video Player

Power on your TV set and Video Player in any order. Place a video disc into your player and begin playing video.

Step 6: Power on AnyHD Recorder

Turn on the Power Switch on the rear panel of AnyHD Recorder. Wait for about 10 seconds.

A red Power Indicator LED will illuminate on the front panel of the AnyHD Recorder. One of the Source LED indicators (HDMI, YPbPr or CVBS) will illuminate and should match the type of input







source you have attached. If it doesn't match, press the Video Source Selector button on the front panel until the appropriate Source LED indicator illuminates.

If your Video Player is transmitting a video stream, you should begin to see it on your HDTV.

Step 7: Recording to USB Storage Device

Press the "REC" button on the front panel to begin recording to the USB Storage Device. The red "REC" LED should illuminate. The TV screen should display "Recording Started".



Step 8: Stop Recording

Press the "REC" button on the front panel again to stop recording. The TV screen should display "Recording Stopped".

A folder designated by date and a sequence number will be created on the USB storage device on the root:\\VSTOR directory of the device. For example, the folder name, "V1216000", represents a folder that was recorded on Dec 16; the three last digits "000" represent a sequence number. If you record a second video on the same day, the sequence number for a new folder name will be incremented (e.g. V1216001). At least two files will be created in each folder, a DAT.TS (audio and video content) and a Meta.APV (playlist). Since the maximum file size is limited to about 4 GB, video recordings that extend past that file limit will be broken up into consecutive 4 GB files.

4. Remote Controller

4.1.Guide



4.2 Remote Controller Button Descriptions

FIG	NAME	DESCRIPTION	FIG	NAME	DESCRIPTION
	Active/ Power Saving	Toggles the state of the Recorder between Active mode and Power Saving	YPbPr	Select YPbPr	Selects YPbPr as the current input source.
		mode. Active mode is the normal state when the Recorder is ON. Power Saving mode is the normal state when the system is not in use. In Power Saving mode, the Recorder stops sending video to the TV and then reverts to a low-power state. Audio Mute ON/OFF (on the AnyHD recorder)	CVBS	Select CVBS	Selects CVBS as the current input source.
				Information	Displays current status information
			File	File browser	Opens the file browser for browsing all files on your USB storage device.
			Time	Time-Shift	Playback recorded file during new recording action
	Audio Mute			Scroll up	Scroll-up button for OSD Menunavigation.
+ Vol	Increase / Decrease Volume	Increases and decreases the audio volume.		Move right	Move-right button for OSD Menu navigation.
	Numerical			Move left	Move-left button for OSD Menu navigation.
•	and alphabetical	Used for character input when using the OSD menus.		Scroll down	Scroll-down button for OSD Menu navigation.
wxyz 9	keys: 0- 9 / A-Z.		K	Setting confirmation	Similar to an "Enter" key; used toconfirm a setting selection.
HDMI	Select HDMI	Selects HDMI as the current input source.		Menu	Brings up the OSD Menu on the TV display

AnyHD Recorder Quick Setup Guide

FIG	NAME	DESCRIPTION		
EXIT	OSD Exit	Exits the OSD Menu		
REC	One button record	Begins video recording to the USB storage device.		
Stop	Stop recording	Stops video recording.		
	PLAY	Brings up the playlist where you can select a file for playback.		
\bigcirc	STOP	Stops playback and returns to video play from the input source.		
	NEXT	In playback mode, skips to thenext file.		
$(\mathbf{\overline{S}})$	Previous	In playback mode, skips to the previous file.		
	PAUSE/ PLAY	Toggles between Pause and Play •		
	Fast forward	Rapidly advances the video °		
(\mathbf{E})	Fast rewind	Rapidly rewinds the video $^{\circ}$		
Movie	Recorded file list	To list the recorded files. Press thePLAY or OK buttons to play the selected file.		
Photo	Photo file list	Enter into the file browser mode and list all the BMP and JPG filesfor preview.		

FIG	NAME	DESCRIPTION		
	RED button	Function varies with OSD		
	GREEN button	menus and screen applications. This button's usage will be indicated on		
	YELLOW button	the screen with its circle and a function label		
	BLUE button	indicating usage		
F1	Snapshots	Takes a snapshot of the current frame displaying on the TV and saves the image file to the USB storage device. The file will be saved as a .bmp file with a date stamp. The file will be placed in a folder labeled Snapshot".		
F2	Repeat	In playback mode, the current video can repeat automatically by pressing this button.		
F3	Output resolution	Change output resolution.		
F4	Lip Sync	While in live monitoring or recording mode, you can use this button to re-sync audio and video manually.		

Please refer to USER MANUAL for Trouble Shooting and other notification in details