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Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

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.

Warnings and Precautions

- 1. Read all of these warnings and save them for later reference.
- 2. Follow all warnings and instructions marked on this unit.
- 3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this unit in or near water.
- 5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
- 6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
- 7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
- 9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
- 10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
- 11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
- 12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
- 13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:



- a. When the power cord is damaged or frayed;
- b. When liquid has spilled into the unit;
- c. When the product has been exposed to rain or water;
- d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment are guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period beings on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- All accessories including headphones, cables, and batteries are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

 All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.



- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCIe Card are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources

and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "**CE**" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is

now used in all EU official documents.



Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of Used batteries according to the instructions.

Chapter 1 Product Overview

The HDR-1 is a standalone HD Recorder box which allows you to record and playback HD video without using any PC. The box is equipped with one HDMI Input and one HDMI Output with the video recorded in MP4 (H.264+AAC) file format.

One major advantage of the HDR-1 is its ability to use it independently of a PC by simply connecting it to an HDMI video source. The HDR-1 records from a range of devices, including HDMI digital camcorder and camera, IP cam, game console, PC Game (720p recommended) and etc. It definitely makes video recording and viewing easier.

1.1 Features

- Capture HD Video Up to 1080p30
- Instant & Timer Recording
- Video Pass Through Support
 - 480i/480P/576i/576P
 - 720P@50/60, 1080i@50/60
 - 1080P@50/60/24
- 1080P 30 frame recorder (Recording quality up to 1080p/30fps (Playback on TV show 1080i/60fps))
- Supported playback and record file formats: MP4 (H.264+AAC)
- Support GPI and RS-232 control
- USB Port for external power input from external Power Bank
- Support 3D video Recorder (Top-and-bottom, Side-by-side Half)
- Support 3D Pass through (BD 3D H.264-MVC 3D structures supported, Top-andbottom, Side-by-side)
- Storage device auto detect & setup
- Recorder Bit rate: 3~20Mbps depend on resolution
- Record video to USB flash drive with NTFS file format
- Built-in video Editor
- Time zone & Date-time selection
- HDMI 1.4b Compatibility

Chapter 2 Connections and Controls

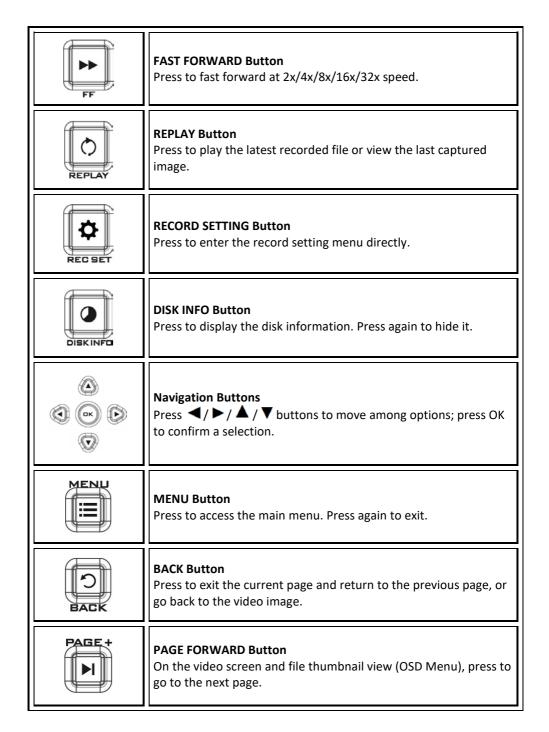
2.1 Rear Panel

PDWER DCIN BANKIN 12V BANKIN 12V BPI DUT (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C					
DE IN 12V () +	DC IN DC in socket connects the supplied 12V / 6W PSU. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.				
POWER BANK IN	 Power Bank IN Connect an external portable USB power supply to POWER BANK IN port. The connected external portable USB power supply will start to provide power to the HDR-1 when the DC power supply fails. The HDR-1 with the USB thumb drive plugged in requires approximately 1000mA of current. Ideally, if the power bank capacity is 100mAh, it should be able to last for 1 hour when the DC power is disconnected from the HDR-1. However, there is also some power loss to be taken into consideration so in reality, the maximum transfer rate is less than 1000mAh and the power bank should last less than an hour. When connecting the DC power and the power bank at the same time, the Power Bank IN port will drain the power bank at a rate of 100mAh. Ideally, if the power, there is also some power loss to be taken into consideration so in reality, the transfer rate is less than 1000mAh and the power bank should be able to sustain the device operation for 10 hours. However, there is also some power loss to be taken into consideration so in reality, the transfer rate is less than 1000mAh and the power bank should be able to sustain the device operation for 10 hours. However, there is also some power loss to be taken into consideration so in reality, the transfer rate is less than 10 hours. 				

	Warning: The power bank is mainly used for emergency power supply and sustains the device operation in the event of unexpected DC power loss. The power bank, however, is not used for powering the HDR-1 recording. Hence, when the DC power is disconnected, the power button LED will then start flashing red and as the flashing gets faster, it means the Power Bank IN port starts to drain your power bank at a faster rate. You should either try to reconnect the DC power or stop recording to avoid file corruption before the power is cut unexpectedly. Note: Files will be corrupted if recording is interrupted due to unexpected power outage.
	GPI Input GPI input accepts external control signal to trigger Start/Stop recording. Note: Please use Pulse Trigger only.
R5-232	RS-232 Communication Port RS-232 communication port accepts external control signal.
	HDMI Input and Output Port HDMI digital video input and output port. Note: While the recording is in progress, if the HDMI input is disconnected, the recording will stop. After the input is reconnected and restored, the HDR-1 will start to record again, but the audio and video of the content recorded will become out of sync.

 USB Port Connects external USB storage device. We recommend hard drives with at least 500G capacity If recording to a thumb drive, please use a USB 3.0 thumb drive make sure the thumb drive's write speed is at least 45 MB/s. The HDR-1 only supports MBR disk (GPT disk is not supported). Please format your disk to NTFS file system on your PC first and then connect the formatted disk to the HDR-1. We recommend "HP USB bisk Storage Format Tool" which can be downloaded from the link <u>http://download.cnet.com/HP-USB-Disk-Storage-Format-Tool/3000-2094_4-10974082.html</u>. Note: The max. output load for USB port is 5V/0.2A. Recommended hard drives are listed as follows: Toshiba V63700-B 750G USB 3.0 I-O DATA HDPC-CUT500S 500G USB3.0 WD WDBBEP0010BBK-01 1T USB3.0 WD WDBY8L0020BBK-01 2T USB3.0 The HDR-1 does NOT support USB Hubs, FAT format, NAS, and devices with more than 2TB capacity. Note: The performance of "thumb drives" varies. Many of these devices are optimized for "read" operations, while the HDR-1 requires sustained "write" capabilities. For best results, especially at higher recording data rates, powered USB drives are recommended. Note: DC power of the HDR-1 is only sufficient to power the "USB thumb drive (0.2A)", thus you need an external power supply to power the portable hard disk (HDD/SSD) to work with the HDR-1.

	 Power Button Press to power ON the device. Note: When the DC power is disconnected while the power bank is connected to the Power Bank IN port, the power button LED will start flashing red. The flashing will get faster, indicating that the Power Bank IN port is draining the power bank at a faster 			
	rate. LED will be OFF when the power bank is fully drained out.			
	STOP Button Press to stop recording or playback.			
STOP	Note : Approximately 10 seconds of video file processing time is required after recording is stopped.			
REC	RECORD Button Press to start video recording; press again to stop video recording.			
PLAY	PLAY Button Press to start video playback. If the device is in fast forward or rewind mode, press to resume normal speed playback.			
PAUSE	PAUSE Button In record mode, press to pause recording. In playback mode, press to pause playback.			
SLOW	SLOW PLAY Button Press to play the video in slow mode (1/2x); press again to enter frame-by-frame playback mode.			
REW	REWIND Button Press to rewind at 2x/4x/8x/16x/32x speed.			



PAGE-	PAGE BACKWARD Button On the video screen and file thumbnail view (OSD Menu), press to return to the previous page.
SNAP	 SNAPSHOT Button Press to take a snapshot during gameplay or video playback. Long press to activate continuous capture mode. Five snapshots will be taken at one time. Note: Each snapshot should be taken with an interval of 5 seconds otherwise snapshot will fail.
	INFO Button Press to display information. In record standby mode, pressing the INFO button will display system information. In playback mode, pressing the INFO button will display file playback information.
F1	 F1 Button (FUNCTION 1) On the main page of the MENU, press F1 to safely remove USB disk drive. While in the directory view of the Media Studio of the MENU, press F1 to sort the files by file name, file size, file format and by modified date. Please refer to Section 4.4 Media Studio for details. On the File Name Change page, press F1 to switch between characters, numerals and symbols. Please refer to the <u>Recorded</u> Video Post-Edit section for details. In the Video Edit Mode, press F1 to switch between Scene Search and Segment Search. Please refer to the <u>Recorded Video Post-Edit</u> section for details.

F2	 F2 Button (FUNCTION 2) While in the directory view of the Media Studio of the MENU, press F2 to switch between list mode and thumbnail mode. Please refer to Section 4.4 Media Studio for details. In the Video Edit Mode, press F2 to clear all marks made on the video. Please refer to the Recorded Video Post-Edit section for details.
F3	 F3 Button (FUNCTION 3) While in the directory view of the Media Studio of the MENU, press F3 to edit or change the selected video. Please refer to the Recorded Video Post-Edit section for details. In the Video Edit Mode, press F3 to export the video. Please refer to the Recorded Video Post-Edit section for details.
DELETE	DELETE Button Press to delete the selected files. On the File Name Change view, press to clear all texts. Please refer to the <u>Post-Edit</u> section for file name change procedure.

2.3 LED Indicator

The LED indicator on the front panel shows the device status.



Status	Indication
Powered ON	Flashing green
Ready to record / snapshot	Solid green
Recording	Flashing red in breathing pace
Take a snapshot	Flashes red once
Unable to record /snapshot	Flashes red twice
No source	Flashes red twice
Source is available	Solid green
Power off in progress	Flashing green
Record pause	Solid red
Record finishing in progress	Red flashing rapidly
Lower power	Red and green flashing alternately
Powered off with A/V pass through ON	Solid orange

Chapter 3 OSD Menu

Under the menu, you can check and manage both your recorded files and snapshots, and customize your preferences. Upon pressing the **MENU** button, you will be able to see the main page as depicted in the diagram below. After that, press ◀ / ► buttons to select **Settings**. Press **OK** to enter **Settings** option.

Remaining Time for Recording

Current Time



Press **BACK** button to return to the video screen

Press F1 to safely remove the storage device.

Note: If the thumb drive is not safely removed from the HDR-1, your PC might fail to read files from your thumb drive.

After entering **Settings** menu, you will be able to see the page as shown below. Use ▲ / ▼ buttons to select menu items and press **OK** to enter the selected option. Press **BACK** to return to the previous page.

🄯 S	ettings
Language	English
Display Mode	Real-time Mode
Date and Time	2016/11/08 11:46
Disk Management	USB Disk Partition 1
A/V Management	HDMI
Recording / Snapshot	Max. Length/Best
Sack OK S	Select datavideo

3.1 Language

Use \blacktriangle / \triangledown buttons to select your preferred language. Press **OK** to confirm.

			1		
			Language	9	
		•	English		
			français		
			Español		
			Português		
			Deutsch		
			Italiano		
			•		
I	5 Back		OK Select	datavi	deo

3.2 Display Mode

The default mode is set as real-time mode. Use \blacktriangle / \blacktriangledown buttons to switch between real-time and standard mode.

	@	Display Mo	de	
Sele		y mode based o	n your device.	
	•	Real-time Mode		
	S	Standard Mode		
	Zero lag disp Best for gam	e capturing.	c/snapshot.	
5 Back		OK Select	datavideo	

Real-Time Mode

Real-time mode lets you play games with zero delay. No recording or snapshot status will be shown on screen. All capture work will run in the background. However, if any problem occurs during the capturing process, OSD will automatically jumps out. Press the **MENU** button to check OSD and track capture status.

Standard Mode

In standard mode, on-going recordings will be shown in the upper right corner of the screen for approximately five seconds. As there will be slight delay in game, standard mode is recommended for set-top box.

3.3 Date and Time

As shown in the diagram below, once in the **Date and Time** option, use \blacktriangle / \triangledown buttons to select an item for configuration. Press **OK** to confirm.

🃸 Time	Zone Settings	
Date Format	YYYY/MM/DD	
Time Zone	GMT+08:00 Taipei 1	īme
Time Setup	2016/11/08 11:48	
Daylight Saving Time	Off	
Change d	ate display format.	
5 Back O	K Select	datavideo

Date Format

Use \blacktriangle / \blacktriangledown buttons to select a preferred date format. Press **OK** to confirm.



Time Zone

Use ▲ / ▼ buttons to move among options and select your area. Press **OK** to confirm.

Use \blacktriangle / \blacktriangledown buttons to move among options and select your time zone. Press **OK** to confirm.

	📷 Time Zone	
	Select Area	
	Africa	
	America	
	Arctic	
	Asia	
	Atlantic	
🗢 Back	OK Select	datavideo

Time Setup

Use \blacktriangleleft / \blacktriangleright buttons to move among options and \blacktriangle / \checkmark buttons to adjust date and time. Press **OK** to confirm.

	😱 Time Setup	
	nfirm current Date and Time Settings.	
2016 / 1	11 / 08 11 : 49 : 06	
		↓ • ⊓
_ ⊅ Back	OK Save do	ntavideo

Daylight Saving Time

Use ▲ / ▼ buttons to enable/disable Daylight Saving Time. Press **OK** to confirm.

Note: To use this function, a network connection is required.

	Daylight Saving Time	e
	Enabled	
	Disabled	
	Set Time As: Current Time + 01:00	
➡ Back	OK Select	datavideo

3.4 Disk Management

Step 1: Use \blacktriangle / \blacksquare buttons to select **Storage Destination** and press OK to change your current desired default storage device for both recorded files and snapshots.

D	isk Management	
Storage Destination	on USB Disk Part	ition 1/
➡ Back	OK Select	datavideo

V indicates normal write speed of selected partition.

⚠

indicates low write speed of selected partition.

To Make sure recording functions properly, be sure to select partition with normal write speed.

Step 2: Use \blacktriangle / \triangledown buttons to select the preferred default storage device and press **OK** to confirm.

Select disk f	or recordings and snaps	shots.
8	USB Disk Partition1	
REC functions properly	🔥 REC may fail	

Step 3: Use \blacktriangle / \blacktriangledown buttons to select a folder and press **OK** to confirm.

Step 4: Press F1 to save the setting.

USB Disk Formatting

After entering **Settings** menu, you will be able to see the page as shown below. Use ▲ / ▼ buttons to select **Disk Management** and press **OK** to enter the highlighted option. Press **BACK** to return to the previous page.

Language	English
Display Mode	Standard Mode
Date and Time	2017/01/10 10:05
Disk Management	USB Disk Partition 1
A/V Management	HDMI
Recording / Snapshot	Optimal/Best
	• 1/2

Step 1: Use \blacktriangle / \blacktriangledown buttons to select **Disk Information** and press OK to enter.

	Di	isk Manage	ement	
	Storage Destinatio Disk Information	n USE	Disk Partition 1/	
-	⊃ Back	OK Select	data∾	ideo

Step 2: Use ▲ / ▼ buttons to select **USB Disk Partition1** and press OK to enter.

	Disk Information	
Ø	USB Disk Partition1	
🔗 REC functions properly	🛕 REC may fail	
5 Back	OK Select	datavideo

Step 3: As shown in the diagram below, you will be able to view the USB Disk Partition 1 information and press **F1** to start formatting the disk.

	B Disk Partition1	
Capacity: Used space: Free space:	29.3G 114.7M 29.2G	
ち Back F2 Eject Disk	F1 Format	datavideo

Step 4: You will be warned that all data on the disk will be erased after formatting. Press **OK** if you are sure to continue.



Step 5: Do not disconnect the power or remove the USB storage device as the disk is being formatted.

	Now
	Do not disconnect the power supply or remove the USB storage device.
'	4%
	datavideo



Step 6: The disk formatting is complete when you see the prompt as illustrated in the diagram below. Press **OK** to confirm.

Settings Complete
External storage device is set. Current Save Path: USB Disk Partition 1 Recording and Snapshot functions are available.
OK Confirm F1 Change Default Disk datavideo

3.5 A/V Management

Use \blacktriangle / \blacktriangledown buttons to move among options. Press **OK** to confirm.

Ð /	A/V Managemei	nt
A/V Pass Thru.	Off	
Color Range	Off	
➔ Back	OK Select	
F1 Preview		datavideo

A/V Pass Through

Use ▲ / ▼ buttons to enable/disable A/V Pass Through. Press **OK** to confirm.

	Ð	\/V Pass Thru.		
		On • Off		
	Output video device is dov	and audio signals when t vn.	he	
5 Back		OK Select	datavideo	

Note: The default setting is Off to comply to the power-saving regulation. If this function is enabled, the *HDR-1* still outputs signal when the *HDR-1* is off. If this function is disabled, the *HDR-1* does not output signal when the *HDR-1* is off.

Color Range

Use ▲ / ▼ buttons to toggle between off, limited and full. Press **OK** to confirm.

	🔁 Color Range	
	 Off Limited Full 	
	Select Off when the video color appears normal.	
5 Back	OK Select	datavideo

3.6 Recording / Snapshot

Video Quality

Use \blacktriangle / \triangledown buttons to toggle among various video quality options (Optimal / Good / Maximum recording length). Press **OK** to confirm.

Note: In order to ensure that there is sufficient storage space on the external storage, the HDR-1 provides a record protection mechanism that stops recording automatically when the disk space is only 1GB left. The record protection is to prevent possible disk storage shortage when the video format is changed to HD. Please refer to Appendix 3 for details of the Record Protection.

		0	Video Qual	ity		
			Optimal			
			Good			
		• *	Max. Length			
2						
		trate: 10.0 N stimated reco	1b/Sec ording length: 0 m	ins remainin	g	
	5 Back		OK Select		datavideo	

Snapshot Quality

Use \blacktriangle / \checkmark buttons to toggle among various snapshot quality options (Best / Better / Good). Press **OK** to confirm.

ſ	🚡 Snapshot Quality	
	Image: Best Ima	
	🛤 Better	
	🖈 Good	
	Best image quality	
	(compression ratio: low)	
⇒ Back	OK Select	data video

Auto Save

Use \blacktriangle / \blacksquare buttons to switch between Auto Save function ON/OFF.

	📷 Auto Save	
	On Off	
	Auto save the file when recording ends.	
5 Back	OK Select	datavideo

HDCP Mode

Use \blacktriangle / \checkmark buttons to select Default option (HDCP Mode ON) or By Device Signal (HDCP Mode OFF).

Note: If video source is HDCP-protected, images will NOT be shown properly.

	📷 HDCP Mode	
	 Default By device signal 	
	Protected signal is previewable.	
5 Back	OK Select	datavideo

3.7 Watermark

Add your selected watermark to your videos. You can customize the display of the watermark by setting up the type, position and also scale.

W	Watermark	
Watermark On/Off	On	
Watermark Type	datavideo 1	
Position	Top-Left	
Display Scale	Shrink	
➡ Back	OK Select	datavideo
F1 Preview		

- Press **BACK** button to go back to the previous level.
- Press **OK** to enter the next level.
- Press **F1** to preview the watermark.

Watermark Type

Use \blacktriangle / \checkmark buttons to select from the listed watermark types. Press **OK** to confirm the selection. Press **BACK** button to return to the previous page.

W	Watermark Type	
	 datavideo 1 datavideo 2 datavideo 3 Text 	
	datavideo	
5 Back	OK Select	datavideo

Position

Use \blacktriangle / \checkmark buttons to select from the listed watermark positions. Press **OK** to save the change. Press the **BACK** button to return to the previous page.

[Position	
•	Top-Left	
	Top-Right	
	Bottom-Left	
	Bottom-Right	
5 Back	OK Select	datavideo

Display Scale

Use \blacktriangle / \checkmark buttons to select the display scale. You can either select **Full** or **Shrink**. Press OK to save the change. Press the **BACK** button to return to the previous page.

W	Display Scale	
	Full Shrink	
5 Back	OK Select	datavideo

3.8 Timer Recording

Allows you to schedule the *HDR-1* to start recording at a particular time and record only a certain length of time.

		🏀 Time	er Record	ing	
	Mode Record	ing Time	Off Not Se	et	
		Make sure input d correct before set			
I	5 Back	ОК	Select	datavidec)

Mode

Use \blacktriangle / \bigtriangledown buttons to select from the listed recording type. Press **OK** to confirm the selection. The options are **Off** (timer recording OFF), **1 Time** (timer recording once) and **Daily** (repeat timer recording everyday).

	🏀 Mode	
	Off	
	1 Time	
	Daily	
5 Back	OK Select	datavideo

Recording Time

Use \blacktriangleleft / \triangleright buttons to move among options and \blacktriangle / \checkmark buttons to adjust start time and recording length. Press **OK** to save changes. Press **BACK** button to return to the previous page.

Recording Time 💿 11/08 12:42				
St	art (HH:MM)	Length (HH 01 : 00		
	Exceeding available recording space can cause recording failure.		n	
S Cance	I OK	Save	datavideo	

3.9 Firmware Upgrade

Follow the steps below to upgrade the firmware via USB storage device.

Step 1: Please visit the Datavideo official website <u>www.datavideo.com</u> to download the latest version of firmware. Firmware file is usually available on the product page.

Step 2: Extract the files by unzipping the package. Copy the firmware files to the root directory of your USB storage device, and then connect it to the *HDR-1*.

Step 3: Press **F1** to start the firmware upgrade process. Press the **BACK** button to abort the operation and return to the previous page.

Step 4: Once the firmware upgrade process has completed, press **OK** to restart the *HDR-1*.

Note: The *HDR-1* automatically detects whether a different version of firmware is available for upgrade or rollback.

Į.	Firmware Upgra	ade
1. Copy the latest	e via USB storage de t FW (downloaded fr n of www.datavideo. storage device.	om
⇒ Back	F1 Upgrade	datavideo

A few things to note before the upgrade:

- The firmware upgrade process takes approximately 10-14 minutes to complete.
- Firmware upgrade requires at least 256MB free space on the USB 3.0 flash drive.
- If any problems are encountered during the firmware upgrade, please clear all the data stored on your USB storage device and repeat the above procedure.
- NEVER power off the device or unplug the power supply or remove the USB storage device during the firmware upgrade process. If the firmware upgrade is interrupted for any reason, the device may crash.

3.10 Restore to Factory Default

Press F1 to restore default factory settings. Press the BACK button to abort the operation.



3.11 Product Information

This page provides product information, including product name, model number and firmware version. Press **F1** to edit the displayed name.

 Product Information 					
Product Name: Model No.: Firmware Version: MCU Version: Voltage Status: Display Name:	H.264 USB Recorder HDR-1 1.900.S02 (WW) 20160826XX (0.0.2,0.0.1) 4.98 V MyGameCaptureBox				
🗢 Back	F1 Change Name datavideo				

Name your own HDR-1

Press \blacktriangle / \bigtriangledown buttons to select characters. Press \triangleleft / \triangleright buttons to move between character fields. Press **F1** to switch between different input modes (capital letter, small letter and symbols). Press **DELETE** button to delete the character.

After confirming the name entered, press **OK** to save the change.

To change the product name, go to **Menu** \rightarrow **Product Name**.

The display name will show up when you enable watermark function (When a specific type of watermark is selected).



Chapter 4 Basic Operation

This chapter guides you to record video, capture images and instantly play files.

4.1 Record

The HDR-1 displays video in real-time and standard modes. If you prefer to display record status at the top right corner of the screen, you can change the default real-time mode to the standard mode before recording. Go to Menu \rightarrow Settings \rightarrow Display Mode (refer to section 3.2 for details).

Instant Recording

Press 💌 to activate instant recording. Press 💌 again or 🛄 to stop recording.

Pause and Resume Recording

You can skip unwanted footages and resume recording. Only the footages you recorded will be saved and those skipped clips will be deleted automatically.

Press 🛄 to pause recording. Press 🛄 again or 💌 to continue recording.

4.2 Capture

Image capture function on the HDR-1 is described as follows.

Quick Snapshot

Press to capture current image. Long press to activate continuous capture mode. The HDR-1 will take 5 snapshots at one time.

4.3 Instant Playback

RECALL

Press log to play the latest recorded file or view the last captured image.

Press ■ to stop the playback. Press ► to skip forward 30 seconds. Press ◄ to skip backward 10 seconds.

Image Capture during Video Playback

You can activate screen snapshot during video playback. The three methods described below will guide you how you can use this function.

Method 1:

Press to capture current image.

Method 2:

- Press ID to play the video in slow motion (1/2x). Press ID again to view the video frame by frame.
- Press ¹ to capture your desired image.

Method 3:

- Press 🛄 to pause the playback.
- Press 🔣 to go to previous frames.
- Press 🗾 to go to next frames.
- Press 🛄 to capture your desired image.

4.4 Media Studio

You can check both recordings and snapshots captured by the HDR-1 in "Media Studio".

🔮 00hrs 7mins	Menu	© 14:07
Media S	tudio Settin	ngs
OK Select Ft≊ Eject Disk	I Close Menu	datavideo

Video: MP4 (Codec: H.264 format with AAC audio) Image: JPEG

Press OK to enter Media Studio as shown below. Use the navigation buttons \blacktriangleleft / \triangleright / \blacktriangle / \checkmark to select among items.

🌠 Media Stu	Go One Level Up	By nam
	do one zever op	
-		
Storage destination: USB Disk Partition1/		
F1 Sort	F2 View Mode	datavideo

- Press F1 to sort the files by file name, file size, file format and by modified date.
- Press F2 to switch between list mode and thumbnail mode.
- Press 🔟 to go to the next page. Press 🚾 to return to the previous page.
- Press [™]≣ to directly access the main menu.

• Video Playback

- Press Press or OK to start playing the selected video.
- Press 🔟 or OK to pause the playback. Press 🕨 or OK to resume playback.
- Press I to play the video in slow motion (1/2X).
- Press 🕶 to rewind at 2X, 4X, 8X, 16X and 32X speed.
- Press **b** to fast forward at 2X, 4X, 8X, 16X and 32X speed.
- Press to play the file at normal speed (1X) when slow motion, rewind, or fast forward is active. Press to stop the playback.
- Press ⊡ to display the file playback information.

Note: Only video files captured by the HDR-1 are supported.

- Snapshots Viewing
 - Press **P** or **OK** to view the selected image.
 - Press 🗖 or 🕤 to return.

Note: Only image files captured by the HDR-1 are supported.

Recorded Video Post-Edit

This section shows you how to cut and recombine video recorded by the HDR-1.

• Select a Video

Use the navigation buttons \blacktriangleleft / \blacktriangleright / \bigstar / \blacktriangledown to select the file you would like to edit.

Media Studio		By modified date
-	140305-1419	a de la d
		I LANCING
Storage destination: USB Disk Partition1/		2/2 Duration:00:00:00 File size:994.5KB
F1 Sort F3 Editing	F2 View Mode	datavideo

• Change File Name / Edit

Press F3 to edit or change the selected video.

Change File Name	
Edit Recordings	

• Change File Name

Input the file name by pressing \blacktriangle / \checkmark buttons to select characters, numerals or symbols. Press \blacktriangleleft / \triangleright buttons to move between character fields.

Press **F1** to switch between different input modes (capital letter, small letter and symbols).

Press 5 to go back to cancel the change you make.

Press **OK** to save the name change.

Press button to clear all texts.

	Ì	ia.	Fi	le I	Na	im	e C	Cha	ano	ae		
						le r						
<u>1</u> <u>4</u> <u>0</u> <u>3</u>	0	6			3	4			E	d		
Number:	1	2	3	4	5	6	7	8	9	0		
Cancel F1 Type				0		Sav					datav	ideo

How to edit

An instruction on how to edit a video will be displayed, press **OK** to start editing.

Step 1: Press [U	lp / Down] or [Play] to fi	nd a scene.
OK Start Editing		datavidee

In **Edit Mode**, you can cut and recombine your selected video. To cut the video, you will need to create one or more segments within the video.

Step 1

To locate a scene, use the navigation buttons $\blacktriangleleft / \triangleright / \blacktriangle / \checkmark$ or \blacksquare to search the scene. You can also use $\blacktriangle / \checkmark$ on the left of the screen to search the scene by specific hour, minute, and second.

Press **OK** to mark or unmark the scene.

Step 2

Repeat Step 1 to create a segment. Press **OK** to keep or delete the segment. Press **F1** to switch between search scene and segment search. Press **F2** to clear all marks you made on the video. Press **F3** to export the video.

Note: The HDR-1 automatically recombines the segments you choose to keep during editing.

Recorded Video Export

After editing of the recorded video is complete, press **F3** to export the video. The estimated export time varies by different storage disks. Calculate your export time based on the actual disk size.

Press **OK** to export the video.

Press $\stackrel{\text{BACK}}{\smile}$ to continue editing.

a de la casa de la cas	Export	
Confirm the video Or, go t	o and press [Oł back to continu	Manana suna ser
टो ⁹ Edited File: ज ⁹ Total Length: टा ^{क्ट} Estimated time:	140306-1343(Ed 00 : 00 : 41 Within 1 min.	dit-2)
🗢 Edit 🖸	DK Export	datavideo

While the export is in progress, the bar in the middle of the prompt window shows the progress of the video export and the estimated complete time required.

Press $\stackrel{\text{васк}}{\smile}$ to cancel video export.

Press **F1** to hide the export information.

	💼 Exporting	
10.000 00000000000000000000000000000000	ime: Within 1 min. 343(Edit-2)	-
	5%	
5 Cancel	F1 Hide Status	datavideo

After the recorded video is successfully exported, press **OK** to exit the **Edit Mode**. Press **Solution** to exit or **F1** to continue editing.

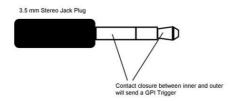
Press	OK] to close the window	or press
	[F1] to continue editing f 343(Edit-2)	
A car	100%	

Chapter 5 Appendices

Appendix 1 GPI Input

The HDR-1 can be connected to external control devices (SE-700 or SE-1200 MU) via a simple contact closure GPI switch.

The GPI interface is a 3.5mm Jack Socket which is situated on the rear panel of the HDR-1. Contact closure between the Outer and Inner contacts on the jack plug will trigger a user selected event.



SAFETY FIRST The cabling required needs to be designed specifically to connect the HDR-1 to the chosen external control devices as they are not all the same. The cabling required can be made by yourself or a competent technician. Please speak with your Dealer or local Datavideo office to get further help and advice.

Appendix 2 RS-232 Command Set

Communication format:

Character Length:

Data Rate:	38400 BAUD
Parity:	Odd parity

Command Format:

CMD1, CMD2, DATA bytes, Checksum

Command	Name	Response	Response data
00h, 11h, 11h	Device Type Request	12h, 11h, 00h,	
		00h, 23h	
20h, 00h, 20h	Stop	10h, 01h, 11h	АСК
20h, 01h, 21h	Play	10h, 01h, 11h	АСК
20h, 02h, 22h	Record	10h, 01h, 11h	АСК
20h, 10h, 30h	Fast Forward	10h, 01h, 11h	АСК
20h, 20h, 40h	Fast Rewind	10h, 01h, 11h	АСК
21h, 11h, 00h, 32h	Pause	10h, 01h, 11h	ACK

Summary List of Commands:

Appendix 3 Record Protection

In order to ensure that there is sufficient storage space on the external storage, the HDR-1 provides a record protection mechanism that stops recording automatically when the disk space is only 1GB left. The record protection is to prevent issues caused by possible disk storage shortage when the video format is changed to HD.

The HDR-1 approximates the remaining recording time of the external storage based on the available space detected. Nevertheless, the actual recording time will be shorter than the estimated recording time due to the 1 GB buffer record protection. The tables below give information about the ideal (estimated) recording time and the actual recording time of different recording qualities and video formats on a 32 GB USB flash drive.

HDR-1 Estimated Recording Time Available								
Recording Quality (Mbps)	20	18	15	12	10	7.5	5	3
Video Format	Estimated Recording Time(min.)							
1080P	203	225	270	N/A	N/A	N/A	N/A	N/A
720P	203	N/A	270	N/A	404	N/A	N/A	N/A
1080i	N/A	N/A	270	337	404	N/A	N/A	N/A
SD	N/A	N/A	N/A	N/A	N/A	537	798	1309

HDR-1 Actual Recording Time (With the 1 GB buffer record protection)								
Recording Quality (Mbps)	20	18	15	12	10	7.5	5	3
Video Format	Estimated Recording Time(min.)							
1080P	195	225	267	N/A	N/A	N/A	N/A	N/A
720P	195	N/A	267	N/A	399	N/A	N/A	N/A
1080i	N/A	N/A	267	333	399	N/A	N/A	N/A
SD	N/A	N/A	N/A	N/A	N/A	539	785	1263

Appendix 4 Firmware Update

Datavideo usually releases new firmware containing new features or reported bug fixes from time to time. Customers can either download the HDR-1 firmware as they wish or contact their local dealer or reseller for assistance.

This section outlines the firmware upgrade process which should take *approximately* **10** *minutes to complete*.

The existing HDR-1 settings should persist through the *firmware upgrade process*, *which should not be interrupted once started* as this could result in a non-responsive unit.

HDR-1 Firmware Update Procedure

Step 1: Please visit the Datavideo official website <u>www.datavideo.com</u> to download the latest version of firmware. Firmware file is usually available on the product page.

Step 2: Extract the files by unzipping the package. Copy the firmware files to the root directory of your USB storage device, and then connect it to the *HDR-1*.

Step 3: Enter the "**Firmware Upgrade**" option, and press F1 to start the firmware upgrade process. Press the BACK button to abort the operation and return to the previous page.

	Firmware Upgra	de
1. Copy the lates	le via USB storage dev st FW (downloaded fro on of www.datavideo.c storage device.	m
➡ Back	F1 Upgrade	datavideo

Step 4: Once the firmware upgrade process has completed, press OK to restart the *HDR-1*.

Appendix 5 Frequently-Asked Questions

This section describes problems that you may encounter while using HDR-1. If you have any questions, please refer to related sections and follow all suggested solutions. If problem still exists, please contact your distributor or the service center.

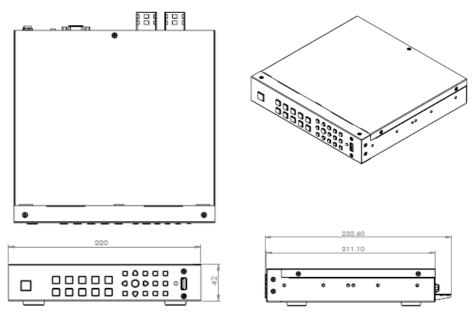
No.	Problems	Solutions
1	Why can't HDR-1 record normally	The HDR-1 only supports NTFS format, so
	after the USB thumb drive is	please format your USB thumb drive to
	plugged into the HDR-1?	NTFS before use.
2	I have formatted my disk to NTFS	Please first check if your disk is
	format but still getting error	encrypted. Please note, since the HDR-1
	prompt (Make sure the NTFS disk	only supports MBR and the encrypted
	driver has been correctly	disk uses GPT (GUID Partition Table), the
	installed) when connected to the	only solution to this problem is to
	HR-1. How can I solve this kind of problem?	reformat your disk to an MBR disk.
3	When the HDR-1 records to	The performance of "thumb drives"
	different USB thumb drives,	varies. Many of these devices are
	sometimes the write will fail and	optimized for "read" operations, while
	the recording will be interrupted.	the HDR-1 requires sustained "write"
		capabilities. For best results, please use a
		USB 3.0 thumb drive with a write speed
		faster than 45 MB/s.
4	My portable hard disk is not	The DC power of the HDR-1 is sufficient
	powered after connected to the	to power one "USB thumb drive" only,
	USB port on the front panel of	thus you need an external power supply
	the HDR-1.	to power the portable hard disk
5	What can I do when the HDR-1	(HDD/SSD) to work with the HDR-1.
5	cannot detect the storage	1. Please reinstall the device driver. If there are too many files saved on the
	device?	disk, the HDR-1 might need a longer time
		to detect the disk.
		2. Please reformat the disk to NTFS on
		your PC and then reconnect the NTFS
		disk to the HDR-1. We recommend using
		the "HP USB Disk Storage Format Tool"
		to do the formatting. Please download
		the tool from the link below.
		http://download.cnet.com/HP-USB-Disk-
		Storage-Format-Tool/3000-2094_4-
		<u>10974082.html</u>

6	Why is the HDR-1 still displaying	This is because the recording format is
	remaining capacity of 9XX MB	VBR and approximately 1GB of space
	even after the 32G thumb drive is	must be reserved as the recording buffer
	full?	so this is normal.
7	After the 32GB thumb drive is	This is because the post-edit function
	full, you will be prompted that	requires some free space to function,
	the recommended edit time is 6	thus it is normal that you cannot use the
	minutes upon file editing.	post-edit function after the thumb drive
	However, in fact, the file cannot	is full. The 6-minute recommended edit
	be edited.	time is the estimated time required for
		post-editing. The length of
		recommended edit time is related to the
		size of the recorded file, and the bigger
		the file, the longer the recommended
		edit time.
8	What can the customer do if he	The customer can buy a purely SD card
	cannot find a thumb drive that	reader that also reads a Class 10 SD card.
	meets the recommended spec?	
9	Will I see any power issue when I	Yes! This is because removable hard disks
	use a removable hard disk?	made by different manufacturers have
		different power consumptions and also,
		the cables provided by those
		manufacturers are different, there will
		thus be power issues.
10	If the customer happens to need	We recommend getting a thumb drive
	a thumb drive, what are the	with a write speed of 45 MB/sec or
	recommended specifications?	above.
		Technical Descriptions
		Technical Descriptions
		1. The HDR-1 requires a sustaining write
		speed of 10 MB/sec and most of the off- the-shelf thumb drives are either not
		labelled of the write speed or only
		labelled with the read speed.
		abelied with the read speed.
		2. The HDR-1 only requires the thumb
		drive to have a write speed of 10 MB/sec
		but why does Datavideo recommend a
		thumb drive with a write speed of 45
		MB/sec?
		This is because even the thumb drive is
		labelled with the write speed but it

		usually refers to the maximum write speed and not the minimum write speed. We have found that the current off-the- shelf thumb drives need to have at least a write speed of 45 MB/sec to be able to work with the HDR-1.
		3. Why do you recommend the SD card reader when thumb drive is not available? This is because the Class 10 label on the SD card represents the minimum write speed so if you are unable to find a thumb drive that meets the requirements, please use the SD card reader with the SD card as another
11	Why the recorded file resolution is only 1080p30 when my input video resolution is 1080p60?	alternative. The HDR-1 supports 1080p60 input resolution but the HDMI output only supports 1080i, thus the recorded file resolution is only 1080p30.
12	What is the HDR-1's longest and shortest record time?	The longest recording time is 14 hours and recording will stop once the longest recording time is reached. The user will receive a prompt message. The shortest recording time is 6 seconds during which the record button will be deactivated.
13	The video display disappears after the PS4 HDCP is disabled.	Please unplug the HDMI cable and then plug back in, the video display will reappear.
14	Does the HDR-1 support imported video or photos for replay?	The HDR-1 can only edit and play the file that is recorded by the HDR-1 itself. Importing other files may cause errors.
15	Does the HDR-1 support PS3, XBOX Dolby 5.1 and 24p video format?	No, the HDR-1 cannot record 5.1 Dolby or 24p video format. Please set the audio to auto on the play station's setting menu screen in order to output the correct audio format (PCM Stereo). However, you may use Dolby 5.1 or 24p video format when the HDR-1 is OFF and works as a pass through device.

4.6	A44 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
16	Why is recording interrupted?	This means that the HDR-1 has detected
		that the write performance of your
		storage device is extremely poor, which
		is the direct cause of interrupted
		recording. Hence we recommend an
		NTFS hard disk replacement.
17	Why does the record LED start to	When the record LED starts to flash
	flash rapidly during recording?	rapidly, it means your storage device will
		be used up very soon. Recording could
		stop in a few minutes after the storage
		space is depleted. Please find a new hard
		disk replacement before recording stops.
18	Why is the audio and video of the	While the recording is in progress, if the
	recorded content out-of-sync?	HDMI input is disconnected, the
		recording will stop. After the input is
		reconnected and restored, the HDR-1 will
		start to record again, but the audio and
		video of the content recorded will
		become out of sync.
19	The HDR-1 fails to record when	The HDR-1 currently supports dual audio
	the source contains multiple	channel recording only and will fail to
	audio channels.	record if multiple audio channels such as
		Dolby, DTS and etc are detected.
20	Can the HDR-1 record 5.1	The HDR-1 can only record two audio
	channels of high-quality audio?	channels so if the signal source is of
		multiple audio channels, the HDR-1 still
		records two audio channels only.
21	Why can't the system detect the	Please check if the firmware file is still on
	firmware during the upgrade	the thumb drive. This is because if the
	process?	HDR-1 detects that the thumb drive is
		not safely removed on the PC, the system
		will display a repair message and the
		firmware file will be removed (previously
		recorded file will NOT be deleted) after
		the thumb drive is repaired.
21	Why can't the system detect the firmware during the upgrade	multiple audio channels, the HDR-1 still records two audio channels only. Please check if the firmware file is still on the thumb drive. This is because if the HDR-1 detects that the thumb drive is not safely removed on the PC, the system will display a repair message and the firmware file will be removed (previously recorded file will NOT be deleted) after





All measurements in millimeters (mm)

Appendix 7 Specifications

Interfaces						
Video Input HDMI Type A x 1						
Video Output	HDMI Type A x 1	HDMI Type A x 1				
DC IN	DC Jack					
Storage	USB Port x 1 (Female Type A	/ USB 2.0 Compliant)				
Power Bank IN	USB Port x 1 (Female type A	.)				
Control	RS-232 / GPI (Pulse Trigger: I	Record Start / Stop)				
	Coding Sp	ec				
Container	MP4	H.264 + AAC				
Profile	Main/High Profile	480i60 Main profile Level 4.1 480p60 Main profile Level 4.1 576i50 Main profile Level 4.1 576p50 Main profile Level 4.1 720p50 Main profile Level 5.0 720p60 Main profile Level 5.0 1080i50 High profile Level 4.1 1080p50 High profile Level 4.1 1080p50 High profile Level 5.0 1080p60 High profile Level 5.0				
Video Coding H.264 4:2:0		HD: 1080P 20Mbps/18Mbps/15Mbps HD: 720P 20Mbps/15Mbps.10Mbps HD: 1080i 15Mbps/12Mbps/10Mbps SD: 576P/480P/576i/480i 7.5Mbps/5Mbps/3Mbps				
Audio Coding	AAC	Stereo 16 bit 48KHz 128Kbps				
	USB Storage Device Condition					
File System	NTFS					
Storage Speed Minimum write speed > 45 MBytes						
Features						
Recording						
Function Recall Slow Motion						

Video and Audio Display / Record Mode								
Pass through		Recording Mode						
Video	Audio	Real Time Mode	Standard Mode	Audio	Record Format	Playback Mode		
		Vid	leo					
1080P@24		Х	Х		Х	Х		
1080P@50		1080P@50	1080i@50		1080P@25	1080i@50		
1080P@60	Auto: PCM 2Ch	1080P@60	1080i@60		1080P@30	1080i@60		
1080i@50		1080i@50	1080i@50		1080i@50	1080i@50		
1080i@60		1080i@60	1080i@60		1080i@60	1080i@60		
720P@50	Manually:	720P@50	720P@50	PCM 2Ch	720P@50	720P@50		
720P@60	RAW 5.1Ch	720P@60	720P@60		720P@60	720P@60		
576P	Dolby Digital	576P	576P		576P	576P		
480P	& DTS	480P	480P]	480P	480P		
576i		576i	576i]	576i	576i		
480i		480i	480i		480i	480i		

Service & Support

It is our goal to make owning and using Datavideo products a satisfying experience. Our support staff is available to assist you to set up and operate your system. Contact your local office for specific support requests. Plus, please visit www.datavideo.com to access our FAQ section.





Please visit our website for latest manual update. www.datavideo.com/product/HDR-1



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