

# JVC<sup>®</sup>

The Perfect Experience / —  
/

GS-TD1  
Full HD 3D Camcorder



# Everio

**3D**  
Experience  
Produced by JVC



## Experience Full HD 3D Video with Exceptional Picture Quality

### Full HD 3D Recording and Side-by-Side Format Compatibility

The GS-TD1 gives you both 3-dimensionality and high quality recordings. It's now possible to shoot 3D videos in either 1920x1080 Full HD resolution using the L/R Independent Format or in the Side-by-Side Format adopted by broadcasters. This allows for these videos to be burned in 3D to Blu-ray discs or to AVCHD DVDs, always viewable on 3D TVs either way. The GS-TD1 also highlights simple operation allowing you to enjoy 3D right away.

### FALCONBRID Engine

This newly-developed high-speed imaging engine enables highly efficient processing of two individual Full HD images simultaneously at as high as 34 Mbps within a single chip. These two Full HD images are what comprise the L and R images of this camera's exceptional 3D image, much the way your eyes actually see things.

#### L/R Independent Format



offers maximum resolution.

#### Side-by-Side Format



offers maximum compatibility.



**FALCONBRID**

# Everio

Full HD 3D Camcorder GS-TD1

**3D**  
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## As 3D As Your 2 Eyes

The GS-TD1 works just like your eyes, seeing and recording an individual Full HD video from each lens and combining them for a 3-dimensional image.

Side-by-Side format is also supported to provide superior 3D archiving and playback compatibility, while 3D special effect modes and digital stills let you maximize your 3D experience.

Face reality in a whole new way — with GS-TD1.



### JVC 3D TWIN HD GT LENS

New optics were custom designed and manufactured by JVC, incorporating the finest high-precision materials such as aspherical lenses and extra-low dispersion glass. What's more, this camera is equipped with twin lenses to capture true 3D images just like your eyes do. High quality, multiplied by two, is what GS-TD1 optics are made to deliver.



### Super LoLux with Two F1.2 Bright Lenses and Back-illuminated CMOS Sensors

The F1.2 lens is approximately two times brighter than conventional camera lenses, and is a perfect match for the Back-illuminated CMOS Sensor. You'll be able to record in low light environments with confidence. Record indoors or outside in darker situations with brilliant results. Record birthdays, weddings, sporting events and everyday life without the need for additional lighting.



Without Super LoLux



With Super LoLux

# Designed for Maximum 3D Experience



## Glasses-free 3D LCD Monitor

You can enjoy 3D viewing right on the camera's high-resolution 3.5" LCD without any special glasses needed. This means you can check out how the 3D image actually looks in real time while you shoot — no unwanted surprises! Rely on easy and intuitive touch operation while you're at it.

## 3D Digital Stills

In addition to videos, you can also shoot still images in 3D. These 3D pictures offer up to 2 Megapixel (1920x1080) high resolution. Plus you can also take 2D pictures that deliver 2.9 Megapixel (2304x1296) higher resolution. Either way, you'll love the results.



## Dynamic 3D Sound

An ideal microphone structure with 85mm spacing, combined with BIPHONIC sound processing, deliver dynamic 3D sound even through a 2ch speaker system.



## Optical 5x Zoom in 3D

Clearly capture the subject in 3D even from a distance. The camera automatically adjusts the parallax level while zooming so the 3D depth always looks natural and the scene looks real.



## Advanced Image Stabilizer\*

Camera-shake compensation is another important feature of a video camera. Our Advanced Image Stabilizer (A.I.S.) expands the effective area at wide angle, delivering powerful compensation for camera shake. Now, you can enjoy stable results even if you're trotting alongside your subject.

\*Especially effective when shooting bright scenes at wide angle (from full wide to 5x)



## Intelligent AUTO

Wherever you point the camera, it instantaneously analyzes faces, brightness, color and distance, to automatically select the best settings for the scene. Brightness, sharpness, chroma and gamma values, and more, are all continuously optimized. Get the best possible shot, anytime!



Macro

## Detectable Scenes

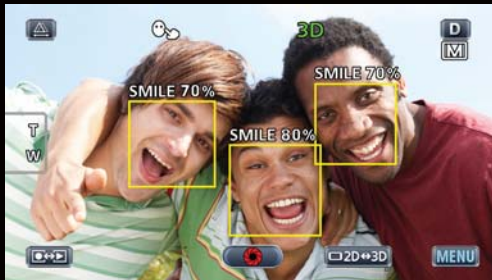
- Person
- Sunset
- Scenery
- Forest
- Macro

# Creative Shooting & Archiving



## Smile Meter & Smile Shot

Just say cheese! The Smile Meter keeps an eye on how much your subjects are smiling, giving you a % display. With Smile Shot, the camera automatically takes a picture (in still mode) every time the smile % reaches a certain level. Based on Face Detection technology, both these features are effective in 3D as well as 2D.



## 3D Time-Lapse REC

Shoot incredible 3D footage with Time-Lapse REC. It records one frame at a time at set intervals (1sec./10sec./80sec.), so you can watch movement that's hours long in just a few seconds when played back. It's great when you want to observe an event that takes place over a long period of time or to record unique-looking scenes in a creative way. Also possible in 2D.



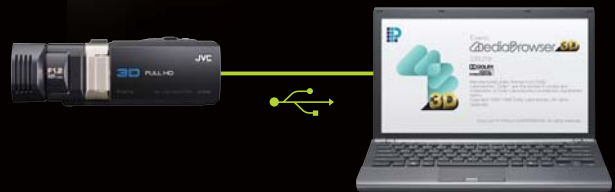
## 3D High-Speed Motor Drive Shooting

GS-TD1 offers Motor Drive Shooting just like that found on Digital SLR cameras, and it's available in 3D! As many as 12 still images can be shot in 3D at approx. 12 frames per second (fps). Enjoy a new world of photography. For 2D stills, you can shoot up to 40 images at approx. 12fps.



## Everio MediaBrowser 3D (for Windows®) Provided

GS-TD1 comes with high-value PC software that provides everything from viewing, data management, simple editing, as well as easy uploading to YouTube™/Facebook, within a single application.



### • Data Management and Editing

There's a variety of functions to let you fully enjoy recorded 3D video/stills. Even more features are anticipated with future upgrades.

#### Full HD 3D Video

- Disc backup
- Copy back to Everio
- 3D playback on PC\*
- Convert to Side-by-Side 3D Video\*
- 3D upload to YouTube™\*

#### Side-by-Side 3D Video

- 3D Playback on PC
- Disc creation (BD/DVD)
- 3D upload to YouTube™
- Editing (Cutting, Combining, Effects, etc.)

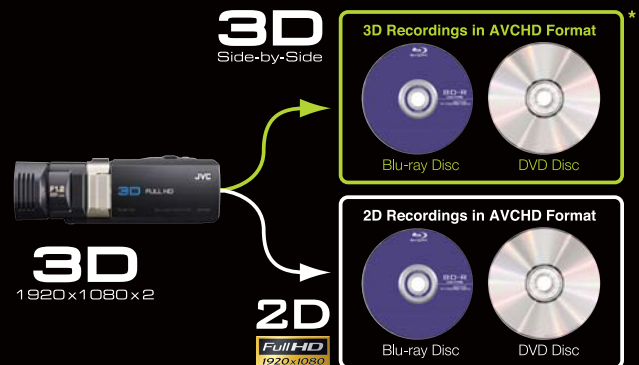
#### 3D Still Images

- Viewing
- Editing (Various re-touch functions available)



### • 3D & 2D Disc Creation\*

Recordings in the Full HD 3D mode can be burned to a Blu-ray or DVD disc in the format of your choice – Side-by-Side 3D video or Full HD 2D video.



\*These functions are available by free update released on June 3rd, 2011.

# GS-TD1 Specifications



## Specifications

SYSTEM		
Format	Video	[3D Mode (MP4 MVC)] Video: MPEG-4 MVC/H.264 (Original format), Audio: AAC [3D Mode (AVCHD)] Video: MPEG-4 AVC/H.264, Audio: Dolby Digital (2ch) [2D Mode (AVCHD)] Video: MPEG-4 AVC/H.264, Audio: Dolby Digital (2ch)
	Stills	[3D Mode] MPF [2D Mode] JPEG
Storage Media		64GB internal memory, SDXC/SDHC Memory Card** (not provided)

CAMERA	
Image Sensor	1/4.1-inch 3.32M Back-illuminated CMOS x 2
Lens	JVC 3D TWIN HD GT LENS
Zoom Ratios	[Optical] 5x (3D), 10x (2D) [Digital] 200x (max.)
F Stop	[3D Mode] F1.2 – F2.8 [2D Mode] F1.2 – F2.8
Camera Shake Compensation	Advanced Image Stabilizer (A.I.S.)
Full Range AF/Manual Focus	Yes
Full Auto/Manual White Balance	Yes
Shutter Priority / Aperture Priority	Yes
Touch Priority AE/AF	Yes

RECORDER	
3D Full HD 1920x1080 Video Recording	Yes
AVCHD Video Recording	Yes
Video Recording Modes**	[3D Mode] MP4 MVC (THR/TSR), AVCHD (TXP/TSP) [2D Mode] AVCHD (UXP/XP/SP/EP)
FALCONBRID Engine	Yes
x.v.Color™ (2D)	Yes

INTERFACES	
Terminals	HDMI® Out (Mini), AV Out, USB2.0, Mic In (Plug-in power), Headphone Out
Memory Card Slot	SDXC/SDHC Compatible x 1
Others	Accessory Shoe

LCD	
Screen Size and Resolution	920K-pixel 3.5-inch
Touch Panel LCD	Yes
Glasses-free 3D Viewing on LCD	Yes

GENERAL	
Power Consumption	[3D Mode (MP4 MVC)] Approx. 5.2W [3D Mode (AVCHD)] Approx. 4.5W [2D Mode] Approx. 3.8W
Dimensions	4-1/16" x 2-9/16" x 7-3/8" (102mm x 64mm x 186mm)
Weight	1.3lbs (590g) without battery, 1.49lbs (675g) with battery

\*\* To record video, SDHC/SDXC card with Class 4 or higher performance is required. For UXP mode, Class 6 or higher is recommended. For THR mode, Class 6 or higher is required. (Class 10 is recommended). SD memory cards (256MB to 2GB), SDHC memory cards (4GB to 32GB) and SDXC memory cards (48GB to 64GB) have been tested for the following brands: Panasonic, Toshiba, SanDisk. Note that using other media may result in recording failure or data loss. For compatibility of memory cards, please consult an authorized JVC dealer.

\*\* Footage recorded in the THR, TSR, and UXP mode cannot be stored to disc using the CU-VD50/VD3. Use the supplied MediaBrowser software installed on your PC to store footage onto Blu-ray disc or hard disk drive. Footage recorded in the THR and TSR mode cannot be played back on CU-VS100.

## Video recording times for each mode (approx.)

Mode		Internal Memory	SDXC/SDHC Card		
		64GB	64GB	32GB	16GB
3D 1920x1080/60i x2	THR (34Mbps)	4hr	4hr 10min	2hr	1hr
	TSR (22Mbps)	6hr 10min	6hr 20min	3hr 10min	1hr 30min
3D 960x1080/60i x2	TXP (17Mbps)	8hr 10min	8hr 20min	4hr 10min	2hr
	TSP (12Mbps)	11hr 40min	11hr 50min	5hr 50min	2hr 50min
2D 1920x1080/60i	UXP (24Mbps)	5hr 50min	5hr 50min	2hr 50min	1hr 20min
	XP (17Mbps)	8hr 10min	8hr 20min	4hr 10min	2hr
	SP (12Mbps)	11hr 40min	11hr 50min	5hr 50min	2hr 50min
	EP (5Mbps)	29hr 10min	29hr 50min	14hr 50min	7hr 10min

## Number of storable still images (approx.)

Mode		Internal Memory	SDXC/SDHC Card		
		64GB	64GB	32GB	16GB
3D	1920x1080 (16:9)	4999	4999	4999	4400
2D	2304x1296 (16:9)	9999	9999	9999	9100
	1920x1080 (16:9)	9999	9999	9999	9999
	1728x1296 (4:3)	9999	9999	9999	9999
	640x480 (4:3)	9999	9999	9999	9999

## Speed modes and number of images for Continuous Still Shooting

Speed Mode	3D Mode	2D Mode
HIGH SPEED*	Approx. 12fps, up to 12 images	Approx. 12fps, up to 40 images
LOW SPEED*	Approx. 1.5fps, no limit	Approx. 2fps, no limit

\*Speed may become slower depending on media writing speed or slow shutter.

## Continuous operation times for each battery (approx.)

Mode		Battery	
		BN-VF815 (Same as provided)	BN-VF823
3D Recording (3D display on LCD)	THR	1hr 45min	2hr 40min
	TXP	2hr	3hr 5min
2D Recording (2D display on LCD)	XP	2hr 35min	3hr 50min

When the monitor is set to STANDARD mode.

## System Requirements for Everio MediaBrowser 3D (for Windows®)

**OS:** Microsoft® Windows® XP SP3, Home Edition/Professional (pre-installed)  
Microsoft® Windows Vista® SP2, Home Basic/Home Premium (32-bit/64-bit, pre-installed)  
Microsoft® Windows® 7, Home Premium (32-bit/64-bit, pre-installed)

**CPU:** When using HD Video: Intel® Core™ Duo 1.66GHz or higher (Intel® Core™ 2 Duo 2.13GHz or higher recommended), Intel® Core™ i7 2.53GHz or higher recommended for HD video editing and 3D playback of AVCHD video

**RAM:** Windows® XP: 1GB or higher, Windows Vista®/Windows® 7: 2GB or higher

**GPU:** Intel® G965 (on-board VGA) or higher

Note: To enjoy 3D recordings, appropriate devices such as 3D monitor (polarizing filter system) and special glasses are required.

# Another Choice for 3D Enjoyment GZ-HM960



## HD Everio with 2D-3D Conversion Capability

For more casual enjoyment of 3D images, the alternative choice is Everio model GZ-HM960. It offers a professional grade real time 2D-3D converter that allows you to play back 2D recorded video and stills as 3D images. You can enjoy 3D viewing on the camera's glasses-free 3D LCD monitor or connected external 3D TV. Of course, regular 2D viewing is also possible.



### GZ-HM960 HD Memory Camcorder

- 2D-to-3D Conversion Output
- 16GB Internal Memory and SDXC Card Slot
- JVC HD LENS GT with 29.5mm Wide Angle
- Super LoLux with F1.2 Bright Lens and Back-Illuminated CMOS Sensor
- Built-in Bluetooth® Wireless Technology



## Optional Accessories

Note: Not all accessories available in every region. Please check with your dealer.

### Data Battery

BN-VF815/VF823 <span style="background-color: black; color: white; padding: 2px 5px;">GS-TD1</span>	BN-VG114/VG121/VG138 <span style="background-color: black; color: white; padding: 2px 5px;">GZ-HM960</span>
BN-VF815	BN-VG114
• 7.2V, 1460mAh	• 3.6V, 1400mAh
• 7.2V, 2190mAh	• 3.6V, 2100mAh
	• 3.6V, 3750mAh

### Battery Charger

AA-VF8 <span style="background-color: black; color: white; padding: 2px 5px;">GS-TD1</span>	AA-VG1 <span style="background-color: black; color: white; padding: 2px 5px;">GZ-HM960</span>
• For charging BN-VF series battery	• For charging BN-VG series battery

**Attention:**  
Everio includes patented and other proprietary technology and is made to be used with the JVC Data Battery and not with other batteries. JVC cannot guarantee safety or performance of the camcorder when it is operated by other batteries. For additional information about JVC Data Battery, please contact an authorized JVC dealer in your country.

### HDMI® Cable

VX-HD315F

- HDMI® – HDMI® mini cable, 4.9ft/1.5m

### Starter Kit

VU-VG1K <span style="background-color: black; color: white; padding: 2px 5px;">GZ-HM960</span>	VU-VG5K <span style="background-color: black; color: white; padding: 2px 5px;">GZ-HM960</span>
• BN-VG114 Data Battery	• BN-VG114 Data Battery
• CB-VM15 Carrying Bag	• CB-VM25 Carrying Bag

### Carrying Bag

CB-VM30/VM70 <span style="background-color: black; color: white; padding: 2px 5px;">GZ-HM960</span>	CB-VM80
• Can carry Everio with its series of accessories	

## Everio SHARE STATION®

CU-VD50 Direct DVD Burner/Player	CU-VD3 Direct DVD Burner

- Can create AVCHD discs without using a PC
- DVD burning operation can be controlled by Everio
- Playback directly on your TV/display via HDMI® terminal (CU-VD50)
- Uses DVD-R/-RW disc, DVD-R DL disc supported
- Can be used horizontally or vertically (Stand included)
- Remote control provided (CU-VD50)

## HD Media Player

CU-VS100 Multi-Format Player with Dual SD Card Slot	
• Plays back video saved on SD card to enjoy viewing on HDTV	
• Also compatible with digital still cameras	
• Dual SD Card slot for data copy over two cards	
• HDMI®, Audio/Video output	
• Remote control provided	

Note: Footage recorded in the THR, TSR, and UXP mode cannot be stored to disc using the CU-VD50/VD3. Use the supplied MediaBrowser software installed on your PC to store footage onto Blu-ray disc or hard disk drive. Footage recorded in the THR and TSR mode cannot be played back on CU-VS100.

## Provided Accessories

- |  |  |
|--|--|
| GS-TD1                                 | GZ-HM960   |
| • AC Power Adapter                     | • AC Power Adapter                                     |
| • Rechargeable Battery Pack (BN-VF815) | • Rechargeable Battery Pack (BN-VG114)                 |
| • AV Cable                             | • AV Cable   |
| • USB Cable                            | • USB Cable  |
| • HDMI® Cable                          | • HDMI® Cable  |
| • Remote Control                       | • Remote Control                                       |
| • Software CD-ROM                      | • Remote Control (PC software is built in the camera.) |

## Other Storage and Playback Solution

Recommended Hard Disk Drives

### Hard Disk, Design by Neil Poulton

1TB, 2TB



Just connect with Everio via USB\*. Recorded data can be stored and played back with easy operation via connected Everio

\*Optional USB cable required.

# Precautions on Recording and Playing Back 3D Images

## Recording 3D Images

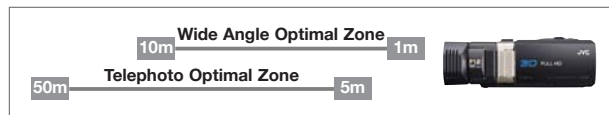
GS-TD1 makes use of the misalignment between the images that enter the left and right eyes to create the 3D effect during 3D recording. As the images that enter the left and right eyes are different, fatigue may be experienced. In addition, depending on the content of the video, an illusion of movement may be experienced and result in motion sickness. Take note of the following when recording 3D images.

### Securely hold a camera during 3D Recording (Recording stable images)

- Hold the camera and the LCD monitor with both hands while recording
- Keep elbows close to your sides to avoid camera shake
- Open your legs slightly

### Shooting distance during 3D recording (Achieving comfortable 3D images)

It is recommended to perform 3D recording within the optimal zone



### Notes:

- Make sure that you have stable footing during recording.
- Do not swing the camera horizontally or vertically during recording.
- If the subject is not recorded within the recommended shooting distance, 3D effect may be weak.
- When recording night scenes or landscapes, 3D effect of some subjects may be weak.
- For subjects that appear at the side of the screen, 3D effect may be weak.
- Operate slowly when using the zoom.
- If the image is zoomed in too much, 3D effect may be weak.
- It is recommended to make use of a tripod.

## 3D Display on the LCD Monitor

The LCD monitor supports 3D images during both recording and playback. Press the "3D/2D" button on the touch screen to change the display on the LCD monitor between 3D and 2D.

- When using the 3D recording mode, the image will be recorded in 3D even if the display on the LCD monitor is set to 2D.
- 3D effect appears stronger when viewed at approximately 30cm from the front.
- 3D effect may be weak if viewed from an angle other than the front.
- The LCD monitor appears darker when 3D images are displayed. Change the display to 2D when it is difficult to see, such as when using this unit outdoors.

### CAUTION

- Recording and viewing of 3D images is not recommended for people with medical history of photosensitivity, with heart diseases, feel unwell, suffer from lack of sleep, suffer from fatigue, or are drunk. Medical conditions may worsen.
- Do not shoot a subject from a distance shorter than the minimum shooting distance. The 3D effect may become stronger and result in fatigue or discomfort. The minimum shooting distance of GS-TD1 is 80cm (using wide angle).
- Be careful not to shake the camera during recording. Excessive shaking while riding in a vehicle or during walking may result in fatigue or discomfort. To perform recording while moving the camera, keep the speed slow and steady. As much as possible, keep the camera in a horizontal position during recording.
- If you have vision problems such as short-sightedness, long-sightedness, varying vision in the left and right eyes, or astigmatism, it is recommended to correct your vision by wearing glasses, etc. Stop recording or viewing of 3D images if you see double images. 3D images may appear differently for different people. Correct your vision appropriately before viewing the 3D images.
- Stop recording or viewing of 3D images if you experience fatigue or discomfort. Continual viewing of the 3D images may result in health problems. Take an adequate rest. Recording or viewing of 3D images in an environment where shaking of the monitor is expected, such as while riding in a vehicle or during walking, may result in fatigue or discomfort.
- If you experience fatigue or discomfort while recording or viewing 3D images on the LCD monitor, set the display to 2D. Continual recording and viewing of the 3D images may result in health problems.
- Rest well after recording or viewing 3D images. After recording or viewing 3D images, check that you do not experience fatigue or discomfort before driving, etc.
- Take a break every 30 to 60 minutes when recording or viewing 3D images. Long periods of recording or viewing may cause visual fatigue.
- Keep a distance of at least 3 times the effective height of the screen when viewing 3D images on a 3D compatible TV. Viewing of 3D images from a distance shorter than the recommended distance may cause visual fatigue.

TV Size	Recommended Distance
54"	Approx. 2.0m
50"	Approx. 1.9m
46"	Approx. 1.7m
42"	Approx. 1.6m

- Recording and viewing of 3D images is only recommended for ages 5 to 6 and above. Guardians should pay close attention to children as health problems may result if fatigue and discomfort are not noticed immediately.

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