

# Q3HD Handy Video Recorder

Brilliant stereo recording...  
Now with HD video.



Operation Confirmed Cards

Zoom brought unrivaled HD audio to your movies with the Q3 Handy Video Recorder. Now, with the Q3HD, there's only one handheld camcorder that does it all in 1080p. The Q3HD Handy Video Recorder takes Zoom's renowned audio technology and combines it with HD video, allowing you to capture every moment with stunning clarity and resolution.



## QUICK RECORD.

Shoot HD video in brilliant stereo.

## QUICK EDIT.

Use HandyShare to edit movies on your computer.

## QUICK SHARE...

Publish to your favorite websites or watch on HDTV.

## ▶ "Three-dimensional" stereo sound brings your videos to life

With two studio-quality condenser microphones configured in a wide 120 X/Y pattern, your Q3HD can capture even the loudest live concerts in HD with incredibly clear audio. Time lags generated by differences in distances from sound sources are eliminated by aligning the left and right recording positions on the same axis. In addition to left-right stereo width, a sense of depth from front to back is also captured faithfully, allowing your recordings to sound three-dimensional.



Stereo sound with outstanding depth and clarity

## ▶ 1920 × 1080 full high-definition video



Your HD Videos are recorded in MPEG-4 AVC/H.264 format, which can be played on a computer using QuickTime player. The Q3HD can record video in full HD at 1920 x 1080 pixel resolution, allowing you to enjoy your finely-detailed audio and video on your large HDTV. You can also select 720p HD for longer recordings, as well as SD formats when smaller file sizes are needed.

## ▶ Easy file transfer using the built-in USB cable

A USB cable is conveniently built into the unit, allowing the Q3HD to be connected directly to a Mac or PC. The USB 2.0 Hi-Speed standard allows even large video files to be transferred smoothly and quickly.



## ▶ The HandyShare software can be used to master sound recordings

The Q3HD's bundled HandyShare editing and uploading software lets you to manage and edit your videos easily as well as upload them to social networking sites. From live musical performances, rehearsals and recitals to journalism, education and sports, you can easily share your movies with everyone on your favorite websites like YouTube or Vimeo. Moreover, effect functions in the software allow you to bring the sound of video recordings up to the level of a finished product. Normalize a recording for a consistent volume level, add reverb to give rich reflections to the sounds of instruments and voices and use a mastering effect to enhance the impact of a performance with compression. Just select a preset. It's easy enough for anyone to use.



Edit a video down to the important scene



Upload easily to YouTube

## 24-bit/96kHz linear PCM sound

The rich stereo sound captured by the X/Y mic pair can be recorded to linear PCM WAV files. When taking full

high-definition 1080p video, high-quality sound with resolution of up to 24-bit/96 kHz can also be recorded. In addition to being able to switch between □gLow□h and □gHigh□h gain levels, the □gAuto□h setting allows for automatic level adjustments. The versatile controls on your Q3HD mean your videos have amazing clarity no matter the application.

### Start recording with a single button

After turning the power on, the Q3HD is ready to shoot in 2 seconds. Just press the REC button to start recording. With a compact form that can easily be carried in a pocket, you will be able to shoot full HD video and professional-quality audio with ease.



### Enjoy HD video on your HDTV

The Q3HD has a mini HDMI connector that allows the digital output of your videos. Connect the Q3HD to an HDTV by using an HDMI cable (sold separately) and enjoy your movies with your family and friends. And the Q3HD□fs audio will sound incredible on your home theater□fs audio system.



### Lighting selection function

The Q3HD has a lighting selection function that allows you to record using the best setting for any given lighting condition. The modes that can be used include □gAuto□h which automatically adjusts brightness and color, □gConcert Lighting□h which suppresses oversaturation from strong lighting and □gNight□h which is ideal for filming in dark situations.

### 4x digital zoom

The 4x digital zoom allows you to shoot both distant landscapes and close-ups of people. You can capture your main subject even when it□fs far away.



Without zooming



4x zoom

### Low-cut filter function

The unit□fs low-cut filter reduces unwanted background noise by cutting the low-frequency range. Attach a windscreens (sold separately), to reduce wind noise so you can get clear audio even when filming outside.

### Edit video easily right on the scene

Trim your movies internally with the Q3HD, as the unit allows you to cut footage and better feature the important scenes without a computer. By erasing unnecessary data from the SD card, you will increase your remaining recording time.

### Take your videos along on an iPod, iPhone or iPad

Q3HD video files can be transferred through iTunes to iPads, iPhones and iPods to playback your video. Carry around your favorite videos and watch them whenever you like.

\*You must convert your video using the "Create iPod or iPhone version" command in iTunes.

### It's also an audio recorder

The Q3HD can also be used as an audio recorder to record just sound. In addition to being able to record 24-bit/96 kHz PCM files that far exceed CD-quality, the unit can also record AAC (m4a format) files that have smaller sizes. The Q3HD also features an internal reference speaker so you can check recordings without earphones.

### 2.4-inch LCD screen makes video easy to watch and the unit easy to use

With the Q3HD's 2.4-inch LCD screen, you can monitor important information while recording, including sound input level, remaining recording time and battery level. The screen can also be used to show video file thumbnails or to display the menu screen with graphic icons representing the unit's functions. Turn the Q3HD on its side and press play to watch your videos in widescreen 16:9 format.



Menu screen with graphic icons

### Audio input jack

The Q3HD's audio input jack allows for external recording devices to capture video and stereo recordings to the unit. Combined with a mixer, you can use this recorder to capture sound through multiple microphones for sophisticated recordings.

### Compatible with SDHC cards of 32GB high-capacity

The Q3HD utilizes SD/SDHC as an affordable way to increase recording capacity. The included 2GB SD card can record about 30 minutes of full HD video, while a 32GB SD card allows for about 7 hours of full HD video recording time.\*

\*If recorded with AAC (192 kbps) audio quality.



### Runs on readily-available AA batteries

The Q3HD is powered by two standard AA batteries, resulting in about 2 hours of continuous recording. The unit is also compatible with NiMH batteries, which can be recharged using a commercially-available charger.



### APQ-3HD accessory set available (sold separately)

A package of six accessories, specifically designed for the Q3HD, will be sold separately to further enhance your moviemaking. The package includes an HDMI cable for connecting with an HDTV, a windscreen to reduce noise, a tabletop tripod with adjustable-length legs, a padded-shell case, an AC adapter and an AV cable.



### Q3HD SPECIFICATIONS

Recording Media	SD/SDHC card (up to 32GB) □@*Class 4 or higher recommended.
Imaging Device	1/3.2-inch 5M pixels CMOS sensor
Optics Lens	Fixed Focus (1.0m to infinity), F2.8

<b>Video Format</b>	MPEG-4 AVC / H.264 □iMOV □j
<b>Video Resolution</b>	HD1080p 30fps □AHD720p 60fps □AHD720p 30fps □AWVGA 60fps □AWVGA 30fps
<b>Audio Format</b>	PCM (Quantization : 16/24bit, Sampling Frequency : 44.1/48/96kHz) AAC (Bit Rate : 64 to 320kbps, Sampling Frequency : 48kHz)
<b>Sound Functions</b>	Lo-cut filter, Auto REC level
<b>Video Functions</b>	4x digital zoom, Scene select, Divide, Trim
<b>Display</b>	2.4-inch full color LCD (QVGA)
<b>Built-in Mic</b>	Unidirectional, 120-degree X/Y stereo Maximum Sound Pressure Level: 130dB SPL
<b>Built-in Speaker</b>	Monaural, 400mW 8f <sup>¶</sup>
<b>Input</b>	LINE IN (1/8" Stereo phone jack)  Mini-HDMI (Type C)
<b>Outputs</b>	TV OUT □iNTSC / PAL compatible □j LINE/PHONES OUT (1/8" Stereo phone jack)
<b>USB</b>	USB2.0 High speed compatible, Mass storage class operation
<b>Power Requirements</b>	2 x AA batteries (LR6 or Ni-MH) AC adapter(AD-14): DC5V/1A/center positive
<b>Battery Life</b>	2 hours (Movie mode), 4 hours (Audio mode)
<b>Dimensions</b>	51(W) x 132.9(D) x 23(H) mm
<b>Weight</b>	105g (without batteries)
<b>Accessories</b>	SD memory card (2GB), 2 x AA/LR6 batteries (for testing the unit)

## System requirements for HandyShare software

### Windows

Windows XP 32bit (SP2 or later), Windows Vista 32bit / 64bit (SP1 or later), Windows 7 32bit / 64bit  
Intel Pentium4 1.4GHz / AMD Athlon 64 or faster  
512MB RAM (1GB or more recommended)  
1024 x 600 monitor resolution or more  
USB1.1/2.0 compatible port

### Macintosh

Mac OS X 10.4.6 or later / 10.5 / 10.6  
Intel Core Duo 1.66 GHz or faster (Intel Mac only)  
512MB RAM (1GB or more recommended)  
1024 x 600 monitor resolution or more  
USB1.1/2.0 compatible port

## Maximum Recordable Time

### Movie Mode

	Data Format		SD/SDHC Card Capacity				
	Video	Audio	2GB	4GB	8GB	16GB	32GB
HD1080p □i30fps □j		PCM 24bit / 96kHz	18m	36m	1h 13m	2h 26m	4h 52m
		PCM 16bit / 44.1kHz	23m	46m	1h 33m	3h 6m	6h 13m
		AAC 192kbps	26m	52m	1h 44m	3h 29m	6h 58m
HD720p □i60fps □j		PCM 24bit / 96kHz	19m	39m	1h 18m	2h 36m	5h 13m
		PCM 16bit / 44.1kHz	25m	51m	1h 42m	3h 24m	6h 49m
		AAC 192kbps	29m	58m	1h 56m	3h 52m	7h 44m
HD720p □i30fps □j		PCM 24bit / 96kHz	25m	50m	1h 40m	3h 21m	6h 42m
		PCM 16bit / 44.1kHz	35m	1h 11m	2h 23m	4h 47m	9h 35m

	AAC 192kbps	43m	1h 26m	2h 52m	5h 44m	11h 29m
WVGA □i60fps□j	PCM 24bit / 96kHz	25m	50m	1h 40m	3h 21m	6h 42m
	PCM 16bit / 44.1kHz	35m	1h 11m	2h 23m	4h 47m	9h 35m
	AAC 192kbps	43m	1h 26m	2h 52m	5h 44m	11h 29m
WVGA □i30fps□j	PCM 24bit / 96kHz	30m	1h 1m	2h 3m	4h 7m	8h 15m
	PCM 16bit / 44.1kHz	49m	1h 38m	3h 17m	6h 34m	13h 8m
	AAC 192kbps	1h 3m	2h 7m	4h 14m	8h 28m	16h 57m

\*The maximum file size is limited to 4GB. \*Actual times may differ according to recording conditions.

### Audio Mode

Data Format		SD/SDHC Card Capacity				
		2GB	4GB	8GB	16GB	32GB
PCM	24bit / 96kHz	57m	1h 55m	3h 51m	7h 42m	15h 25m
	16bit / 44.1kHz	3h 8m	6h 17m	12h 35m	25h 11m	50h 23m
AAC	320kbps	13h 53m	27h 46m	55h 33m	111h 6m	222h 13m
	128kbps	34h 43m	69h 26m	138h 53m	277h 46m	555h 33m

\* The maximum size of a single file is 2 GB when PCM is selected.

\* The maximum recording time of a single file is 12 hours when AAC is selected.

\* Recording times are approximations.

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\* The SD and SDHC logos are trademarks.

\* All screen images are simulated.

\* Unauthorized recording of concerts, lectures and other public performances is prohibited by law.

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\* All features and specifications are subject to change without notice.