

GY-HD100 Specifications

General		
Power requirements		DC 7.2 V
Power consumption		Approx. 17 W (in the Record mode)
Dimensions		9-1/4" (W) x 9-1/8" (H) x 12-3/8" (D)/235 (W) x 232 (H) x 315 (D) mm
Weight		6.9 lbs./3.1 kg (including lens (Th16x5.5BRMU), viewfinder, battery, microphone and tape)
Temperature	Operating	32°F to 104°F/0°C to 40°C
	Storage	-4F° to 140°F/-20°C to 60°C
Humidity	Operating	30% to 80% RH
	Storage	85% RH or less

Camera section	
Image pickup device	1/3" interline-transfer CCDs
Color separation optical system	F1.4, 3-color separation prism
Number of total pixels	Approx. 1,110,000 pixels
Color bars	SMPTE/EBU type
Sync system	Internal sync (built-in SSG)
Lens mount	1/3" bayonet system
ND filter	1/4ND, +1/16ND
Gain	0 , 3, 6, 9, 12, 15, 18 dB, ALC

Electronic shutter	Standard value	NTSC: 59.94 Hz PAL: 59.94 Hz (HDV HD30p/HDV SD60p)/50 Hz (HDV HD25p/HDV SD50p/DV 25p/DV 50i)
	Fixed values	NTSC: 7.5 - 10,000 Hz, 11 steps (HDV HD30p/HDV SD60p/DV 60i) 6 - 10,000 Hz, 12 steps (HDV HD24p/ DV 24p)
		PAL: 7.5 - 10,000 Hz, 11 steps (HDV HD30p/HDV SD60p) 6.25 - 10,000 Hz, 11 steps (HDV HD25p/HDV SD50p/DV 25p/DV 50i) 6 - 10,000 Hz, 12 steps (HDV HD24p)
Variable scan		NTSC: 60.2 to 1,998.0 Hz (HDV HD30p/HDV SD60p/DV 60i), 48.12 to 1,998.0 Hz (HDV 24p/DV 24p) PAL: 60.2 - 1,998.0 Hz (HDV HD30p/HDV SD60p), 50.2 - 1,973.7 Hz (HDV HD25p/ HDV SD50p/DV 25p/DV 50i), 48.12 - 1,998.0 Hz (HDV 24p)

VTR section	
Video	
Recording format	NTSC: 720/24p, 720/25p, 720/30p, 576/50p, 480/60p, 480/24p, 480/60i PAL: 720/24p, 720/25p, 720/30p, 576/50p, 480/60p, 576/25p, 576/50i
HDV	
Video signal recording format	HDV720p format, 8-bit, 19.7 Mbps
Compression	MPEG-2 video (profile & level: MP@H-14)
DV	
Video signal recording format	DV format, 8-bit, 25 Mbps
Compression	DV compression, 4:1:1 (NTSC)/4:2:0 (PAL)

Audio	
HDV	
Audio signal recording format	MPEG-1 Audio Layer II
DV	
Audio signal recording format	16-bit (locked audio), 48 kHz PCM for 2 channels or 12-bit, 32 kHz PCM for 4 channels
Usable tape	Mini DV tape
Tape speed	18.8 mm/sec.
Record/play time	63 minutes (with an M-DV63HD tape)

Connectors		
Analog composite output		1.0 V (p-p), 75 ohms, unbalanced (RCA)
Analog component output	Y	1.0 V (p-p), 75 ohms, unbalanced (RCA)
	PB/PR	0.7 V (p-p), 75 ohms, unbalanced (RCA)
Audio inputs	Mic	-60 dBs, 3 kohms, balanced (XLR), +48 V output for phantom power supply
	Line	+4 dBs, 10 kohms, balanced (XLR)
Audio outputs		-6 dBs, low impedance, unbalanced (stereo mini-jack)
Earphone jack		-17 dBs to -60 dBs, 8-ohm impedance (stereo mini-jack x2)
IEEE1394 connector		6-pin

Accessories	
Battery (BN-V428) x 1, AC adapter/battery charger (AA-P30) x 1, AC cable x 1, DC cable x 1, Audio cable x 1, Lens (Th16x5.5BRM) x 1, Microphone x 1, SD memory card x 1	

GY-HD100 Recording/playback format

	Shooting	Tape	IEEE1394	Component out (EE)	Video out	PAL	NTSC
HDV	720p 30	←	←	720p 60	480i 60	o	o
	720p 25	←	←	720p 50	576i 50	o	o
	720p 23.98	←	←	720p 60	480i 60	o	o
	480p 60	←	←	480p 60	480i 60	o	o
	576p 50	←	←	576p 50	576i 50	o	o
DV	480i 60	←	←	←	480i 60		o
	576i 50	←	←	←	576i 50	o	
	480i 60 (23.98)	←	←	←	480i 60		o
	576i 50 (25)	←	←	←	576i 50	o	

	Playback	IEEE1394	Component out				Video out	PAL	NTSC
			480 or 576i	480 or 576p	1080i	720p			
HDV	720p 60								
	720p 30	←			1080i 60	720p 60	480i 60	o	o
	720p 50								
	720p 25	←			1080i 50	720p 50	576i 50	o	o
	720p 23.98	←			1080i 60	720p 60	480i 60	o	o
	480p 60	←		480p 60	1080i 60	720p 60	480i 60	o	o
DV	576p 50	←		576p 50	1080i 50	720p 50	576i 50	o	o
	480i 60	←	480i 60				480i 60		o
	576i 50	←	576i 50				576i 50	o	
	480i 23.98	←	480i 60				480i 60		o
	576p 25	←	576i 50				576i 50	o	

	Recording (IEEE1394 input)	Tape	Component out/HDMI out				Video out	PAL	NTSC
			480 or 576i	480 or 576p	1080i	720p			
HDV	720p 30	←			1080i 60	720p 60	480i 60	o	o
	720p 25	←			1080i 50	720p 50	576i 50	o	o
	720p 23.98	←			1080i 60	720p 60	480i 60	o	o
	480p 60	←		480p 60	1080i 60	720p 60	480i 60	o	o
	576p 50	←		576p 50	1080i 50	720p 50	576i 50	o	o
DV	480i 60	←	480i 60				480i 60		o
	576i 50	←	576i 50				576i 50	o	
	480i 60 (23.98)	←	480i 60				480i 60		o
	576p 50 (25)	←	576i 50				576i 50	o	

Note: 30 = 29.98 Hz 60 = 59.94 Hz

*Tapes recorded in HDV 1080i format cannot be played back by GY-HD100.