JVC
PROFESSIONAL

1/3" 3-CCD DV Camcorders

GY-DV301E (DV Input/Output)
GY-DV300E (DV Output Only)

Network Pack
KA-DV300U

Mini DV PAL

Streamcorder

PROFESSIONAL DV

High-performance 3-CCD camcorder with supe professional controls and built-in MPEG4 streaming capability.

Built to meet the needs of today's broadband information distribution networks, JVC's new GY-DV301E/GY-DV300E "Streamcorder" is the ideal choice for "webcasting". This high quality 1/3-inch 3-CCD camera besides boasting powerful 12-bit A/D conversion with 12-bit digital signal processing, high quality MiniDV recording and professional functions, also comes fully equipped for connection to the Internet. This means that live video can be distributed in real time over the World Wide Web or local intranets, and so be viewed on remote PCs around the globe.

Of course, it is not restricted just to live image distribution. This camcorder can also save image data simultaneously on a MiniDV cassette while recording to Compact Flash memory card, which can then be physically transferred to an NLE system for digital editing and processing.

It all adds up to today's most complete and versatile professional camcorder. From ENG operation to self-operated studio, the new GY-DV301E/GY-DV300E is setting a new standard for video production and distribution in the broadband era.

Stream

erb picture quality,

ncorder

Realtime MPEG4 streaming capability ideal for live webcasts

Just attach the KA-DV300U network pack to the base of the GY-DV301E/GY-DV300E, install the PCMCIA card, and the camcorder is ready for connection to the Internet via a personal computer. LAN connection can be via LAN cable or wireless RF LAN card. As the GY-DV301E/GY-DV300E captures images, it automatically generates MPEG4 files that are sent to the Internet in real time. Viewers can see those streams in real time simply by accessing the specified IP address on their PC. Ideal for any type of live event — weddings, concerts, conferences, and even news reports —, the GY-DV301E/GY-DV300E sends your images around the world instantly. Economical and easy to set up, the GY-DV301E/GY-DV300E makes it easy for students to attend lectures via the Internet.
Streaming software ("Streamproducer") is provided with the KA-DV300U, allowing up to four GY-DV301E/GY-DV300Es to be connected to a single PC and switched them as required before streaming.

Basic streaming system

With the KA-DV300U network pack installed on the GY-DV301E/GY-DV300E and a PCMCIA card fitted inside the pack, the camcorder can connect to a PC via a wired/wireless LAN. Installing the "Streamproducer" software in the PC allows up to four GY-DV301E/GY-DV300Es to be connected and switched via the PC.
Create a publishing point for distribution.
Images and sound captured with the GY-DV301E/GY-DV300Es can be streamed as MPEG4 files via the PCMCIA card to the PC. The MPEG4 files are then processed by Streamproducer and made available for viewing on the Internet.
When viewers access the publishing point IP address, they can play back the MPEG4 files with the Media Player on their PC. Streams of up to 15 fps (352 x 288) are assured.

Powerful 3-CCD imaging, 12-bit ADC, 12-bit DSP and 14x zoom lens combine to give superior performance

3-CCD prism camera for high quality picture

To ensure the best possible image quality, the GY-DV301E/GY-DV300E incorporates three 1/3" CCDs each of 470,000 pixels (440,000 effective). Each CCD attaches to highly advanced circuitry which virtually eliminates vertical smear when shooting bright lights in a dark room. Lag and image burn are also reduced to indiscernible levels, while high sensitivity (F11 at 2000 lux) assures creative flexibility and simplifies lighting requirements.

Newly developed 12-bit ADC* and 12-bit DSP**

The 12-bit ADC directly inputs to the DSP, thus eliminating any signal degradation otherwise arising from the analogue pre-gain and pre-knee circuits. In addition, JVC's new DSP with advanced 12-bit video processing brings out all the natural details, eliminates noise, and gives good gamma response and so reproduces clear detail from dark areas.
**ADC: Analogue Digital Converter **DSP: Digital Signal Processor*

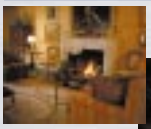
400% dynamic range

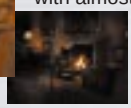
An ultra-smooth gamma curve, calculated with a true log scale algorithm, produces a dynamic range of 400%, thus giving totally accurate reproduction of fine details and subtle colours right across the picture, including any shadowed or highlighted areas.

14x zoom lens

Both auto and manual control of focus and iris are available. The handle zoom speed can be adjusted and the large diameter focus ring ensures smooth, accurate focusing. An optical image stabiliser (inner focus) helps stabilise images, especially zoomed-in close-ups.

LOLUX 2.65 lux (100% video out)


LOLUX


NORMAL

When activated, the LOLUX mode increases sensitivity with almost zero increase in noise. LOLUX increases the gain by 16x (+24 dB) so you can capture high quality video footage with excellent colour balance in low-light conditions.

Optical image stabiliser

To minimise jittery images when shooting with the handheld GY-DV301E/GY-DV300E, an optical image stabiliser can be swiched in.

AE (automatic exposure) function

Brightness is managed automatically by a combination of the gain, shutter speed and iris control.

Full auto shooting

With the GY-DV301E/GY-DV300E set to Auto, the iris, shutter speed, gain, white balance, audio record level and optional image stabiliser all automatically self-adjust according to the shooting conditions.
Picture quality can be adjusted manually, with individual settings available for master black, detail, DTL frequency, V resolution, auto knee, black and colour matrix.

Widescreen (letterbox) and 4:3 aspect ratios

The screen can be switched between 4:3 and widescreen, allowing signals to be recorded in the desired aspect ratio.

Wide-angle and telephoto lens converters

For telephoto and wide-angle shooting, without sacrificing lens performance, telephoto and wide-angle lens converter accessories are available.

One-push auto focus and one-push auto iris

When the focus or iris switch is set to MANUAL, the Auto Focus mode or Auto Iris mode can be engaged by pressing and holding the PUSH AUTO FOCUS or PUSH AUTO IRIS button.

Cinema Gamma

An S-shaped gamma curve mode can be selected which gradually changes gradations in the areas of dark and high-brightness. This will provide film-like colour gradations in the recorded images.

Realtime MPEG4 streaming (GY-DV301E/GY-

1. Shooting

Simply start shooting with the GY-DV301E/GY-DV300E. Audio and video signals will be simultaneously recorded onto a MiniDV tape while being encoded as an MPEG4/ASF file via the KA-DV300U.

2. Transferring Data to a PC

The KA-DV300U features built-in MPEG4/ASF encoding and can accept three types of PCMCIA cards.

- *Wireless LAN card for streaming*
- *Wired LAN card for streaming*
- *CF card for ASF file recording*

Recording time on CF cards

128MB	30 minutes (ASF file)
256MB	60 minutes (ASF file)
512MB (pending)	120 minutes (ASF file)

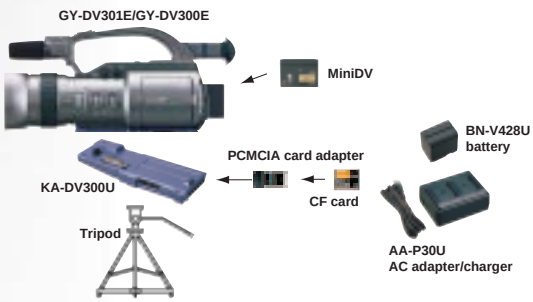
** Picture quality rate*
Pixel size: 352 x 288 dots
Video transmission rate: 384 kbps
Audio transmission rate: 32 kbps
Max. frame rate: 12 frames/s

Applications

System 1

Single ENG system

You can record images simultaneously on a tape and a CF card. With a 256 MB CF card, MPEG4/ASF files can be recorded for up to 1 hour at the highest CIF quality. MPEG4/ASF data recording can be triggered simultaneously, or independently from the DV tape.



Product name	Model name	Quantity	Remarks
DV camcorder	GY-DV301E/GY-DV300E	1	
Network pack	KA-DV300U	1	
CF card		2	1 replacement
Battery	BN-V428U	4	3 replacements
AC adapter/charger	AA-P30	1	
MiniDV tape	M-DV63PRO	5	
Tripod		1	

System 2

Self-operated studio system

Even if you're working on your own, you can still present your images in person. While footage is being recorded on a MiniDV tape, it is simultaneously converted to ASF files that can be distributed over the network. Pre-recorded MiniDV tapes can also be converted to ASF files for netcasting or recorded on the CF card for delayed playback. MPEG4/ASF files can be viewed and recorded on a remote PC.

Product	Model	Quantity	Comments
DV camcorder	GY-DV301E/GY-DV300E	1	
Network pack	KA-DV300U	1	
Wireless LAN card		2	1 for camcorder and 1 for PC
PC		1	Pentium III, 1 GHz, memory: 256 MB or more, HDD: 2 GB or more, OS: Windows 2000 Professional
Software	Streamproducer	1	Provided with KA-DV300U
Microphone	MV-P618U	1	
Microphone holder	KA-A33U	1	
Battery	BN-V428U	4	3 replacements
AC adapter/charger	AA-P30	1	
MiniDV tape	M-DV63PRO	5	
Tripod		1	

-DV300E + KA-DV300U with PCMCIA card)

3. NetCasting

Distribute your sound and images in realtime over a local network or via the Internet with a PC that has JVC's "Streamproducer" software installed.

Streamproducer

- Displays images from the camcorder.
- Saves ASF files from the camcorder to the PC.
- Plays back ASF files.
- Streams ASF files from the camcorder to the Internet.
- Switches up to four sources (camcorders and/or stored data) for streaming.

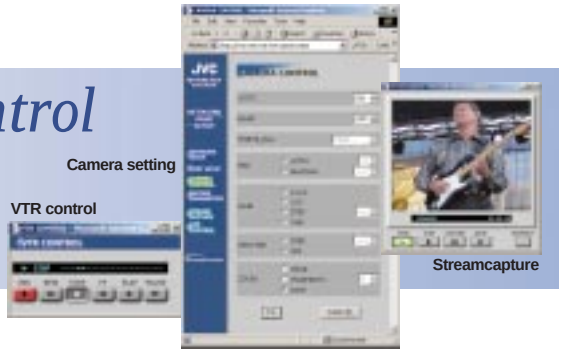
4. Viewing

Images and sound can be seen and heard at the specified website via Internet or Intranet using Windows Media Player (ver. 7.1 or later) and a web browser (IE 5.0 or later).

** Streaming quality depends on network conditions.*

Remote Adjustment and Control

Camera setting, VTR control and live image capture are all possible from a remote location using only a web browser. No custom software is necessary.



System 3

Internet live broadcasting system

You can record live events such as sports, concerts, weddings and lectures on a MiniDV tape, while streaming the same material via the Internet in real time.

** Streaming distribution system and server not included.*

Product name	Model name	Quantity	Remarks
DV camcorder	GY-DV301E/GY-DV300E	1	
Network pack	KA-DV300U	1	
Wireless LAN card		2	1 for camcorder and 1 for PC
LAN cable		1	LAN cross cable
PC		1	Pentium III, 1 GH, memory: 256 MB or more, HDD: 2 GB or more, OS: Windows 2000 Professional
Software	Streamproducer	1	Provided with KA-DV300U
VTR	BR-DV600EA	1	VTR for backup
DV cable		1	For connection between the GY-DV301E/GY-DV300E and BR-DV600EA
Monitor		1	
BNC cable & RCA cable		1	For connection between the BR-DV600EA and monitor
Microphone	MV-P618U	1	
Microphone holder	KA-A33U	1	
Battery	BN-V428U	4	3 replacements
AC adapter/charger	AA-P30	1	
MiniDV tape	M-DV63PRO	5	
Tripod		1	

Glossary

ASF (Advanced Streaming Format):
An extensible file format that can store synchronised multimedia data (including motion pictures, sound, and text) and deliver it over a wide variety of networks and protocols while still proving suitable for local playback.

CIF (Common Intermediate Format):
Standardised video signal format for low bit rate communication. Supports moving pictures with the resolution of H352 x V288 pixels and frame rates up to 30fps.

kbps (kilobits per second):
Unit for data transmission speed. 1 kbps =1000 bits per second.

MPEG4:
Compression system developed for distribution of low-quality, high-compression video over low-bandwidth lines such as telephone lines and cellular phone. Moving pictures and sound can be reproduced with transmission speed of about 64 kbps.

QCIF (Quarter Common Intermediate Format):
Standardised video signal format for communication with at even lower bit rates than CIF. QCIF uses 1/4 the number of pixels used by CIF and provides 1/2 the resolution (H176 x V144 pixels). Supports moving pictures at up to 30fps.

Streaming: A method for transferring multimedia data such as video and audio over a network (Internet, etc.) that allows the receiving device to start playing back the data before the entire file is received.

Wireless LAN: LAN system in which data is transmitted/received with wireless communication. Each terminal must have a wireless LAN card.

Windows Media Player: Utility software for playing back moving pictures and sound.

Reliable recording system for high quality MiniDV pictures and PCM audio

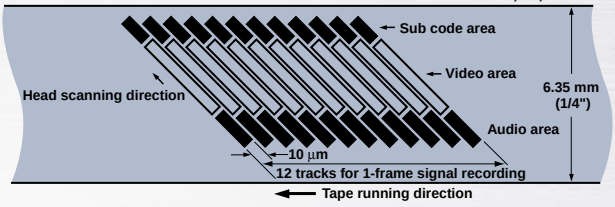
MiniDV recording system with SP and LP mode

The GY-DV301E/GY-DV300E combines the convenience and affordability of MiniDV with the high-quality camera performance needed for professional use. Up to 80 minutes* of high-quality 8-bit, 13.5 MHz, 4:2:0 DV component digital images can be recorded on a single MiniDV tape, assuring high quality, non-degradable images needed for top results in post-production editing. Impressive horizontal resolution of 500 lines is achieved when signals are played back via DV output. The high-quality SP mode and up to 90-minute ** recording LP mode are also available, depending on your requirements.

** With an M-DV80 tape.*

*** The LP mode can be used only with a tape of 63 minutes duration or less.*

Tape pattern



Blank Search

An unrecorded section of the tape, such as at the end point of a recording, is detected. The GY-DV301E/GY-DV300E enters the Stop mode at that point.

High-quality PCM audio

To complement the superior pictures, the GY-DV301E/GY-DV300E offers outstanding digital PCM sound. You can choose from two 16-bit 48-kHz channels or two 12-bit, 32-kHz channels with a dynamic range of more than 71 dB.

Audio recording level adjust

Audio recording level can be adjusted to minimise extraneous noise picked up by the microphone. Audio recording levels for channels 1 and 2 can be set either manually or automatically.

EBU time code generator

An EBU-standard time code generator provides accuracy in editing. The time code system is locked to the REC RUN mode or re-generation mode. EBU time code can be preset at the beginning of the tape.

Edit search

Edit points can be quickly accessed in the Standby mode for review or to set the start point for recording.

Versatile, user-friendly design with professional functions

Lightweight ergonomic design

This handheld camcorder weighs only 1.4 kg giving the flexibility and mobility needed for any type of application. The ergonomic design makes operation easier, allowing rapid reaction shooting in any situation. All the main controls are clustered on the outside of the camera within easy reach. Controls are shaped differently, allowing easy identification by touch alone. An optional shoulder adapter is available, allowing the camcorder to be supported firmly on the shoulder to stabilise shooting.

0.44-inch LCD colour viewfinder

The high-resolution viewfinder shows the subject in full colour, making it easy to locate and compose the subject with the LCD panel still closed. Because the angle of the viewfinder can be adjusted, it is easy to follow a moving subject. For low-angle shooting, the viewfinder can be raised up by 70°.

2.5-inch LCD display

The 200,000-pixel 2.5" colour TFT LCD monitor provides a high-resolution 440 TVL image during shooting or instant replay. It has adjustable peaking and zebras. Time, status, mode, and other information is also displayed. The monitor tilts up 180° for high-angled overhead shooting and tilts down 90° for low-angle shots.

DV (IEEE 1394) connector

This allows transfer of a high-quality compressed digital motion-picture signal to a computer, D-9 decks, a non-linear editing system or to another DV recorder. (Input/Output for GY-DV301E, Output only for GY-DV300E)

Easy set-up and control via clear and logical menu screens

The convenient menu system allows rapid, easy set-up via the camcorder's own LCD display or viewfinder, or via an external monitor.

System menu (1)

--- SYSTEM[1/2] ---	
MIC1 INPUT SEL	XLR
WIND CUT MIC1	OFF
WIND CUT MIC2	OFF
+48V MIC1	OFF
+48V MIC2	OFF
AUDIO MODE	48K
REC MODE	SP
LONG PAUSE TIME	3MIN

System 1/2 menu

MIC1 INPUT SEL:	Selects the built-in microphone or the MIC1 input connector as the audio source.
WIND CUT MIC:	Eliminates wind noise picked up by the built-in microphone or the MIC1/2 input connector.
+48 V MIC1/2 :	Supplies 48 V phantom power to the microphone connected to MIC1 or MIC2 inputs.
AUDIO MODE:	Selects 32 kHz or 48 kHz audio sampling frequency.
REC MODE:	Sets the recording speed to SP or LP.
LONG PAUSE TIME:	Sets the maximum Pause/Still duration to 3 minutes or 30 minutes. After the set time has elapsed, the tape mechanism goes to the Standby mode.
FADER:	Enables fade from black when recording starts.
TALLY:	Lights the tally lamp during recording.
HANDLE ZOOM SPEED:	Sets the zoom speed for the camera handle control only. Three speeds are available.
DATE REC:	Sets Time & Date recording modes.
ASPECT:	Sets the aspect ratio to 4:3, 16:9 (letterbox),

System menu (2)

--- SYSTEM[2/2] ---	
FADER	OFF
TALLY	ON
HANDLE ZOOM SPEED	FAST
DATE REC	CAM
ASPECT	4:3
NET REMOTE	ON

Camera menu

--- CAMERA[A] ---	
MASTER BLACK	NORMAL
DETAIL	NORMAL
DTL.VH BALANCE	MID
V.RESOLUTION	NORMAL
AUTO KNEE	ON
BLACK	NORMAL
COLOR MATRIX	ON
GAMMA	CINEMA

CAMERA menu

MASTER BLACK:	Sets the pedestal level.
DETAIL:	Sets the thickness of the detail contour lines.
DTL. VH BALANCE:	Emphasises vertical or horizontal contour.
V. RESOLUTION:	Adjusts the vertical resolution.
AUTO KNEE:	Activates auto knee to obtain balanced intensity.
BLACK:	Adjusts the amount of detail in the blacks.
COLOR MATRIX:	Sets the colour matrix to improve colour reproduction.
GAMMA:	Selects an S-shaped gamma curve to produce film-like colour gradations.

Operation menu

--- OPERATION[A] ---	
AE	OFF
IRIS	AUTO
SHUTTER	STEP
WHITE BALANCE	AUTO
OIS	ON
CH1 AUDIO LEVEL	AUTO
CH2 AUDIO LEVEL	AUTO

OPERATION menu

AE:	Activates the auto exposure function (Gain: ALC, shutter: EEI, iris: auto iris).
IRIS:	Sets the iris mode to the Auto or Manual mode.
SHUTTER:	Sets the shutter speed to fixed steps values or to variable scan mode.
WHITE BALANCE:	Sets the white balance to the Auto or Manual mode.
OIS:	Activates the optical image stabilizer.
CH1/2 AUDIO LEVEL:	Selects the Auto or Manual mode for audio recording level adjustment.

Continuous recording mode

When the GY-DV301E/GY-DV300E is connected to a BR-DV600EA recorder via the DV connector, the BR-DV600EA will start recording 5 minutes before the tape in the camcorder comes to its end. This allows continuous shooting for extended periods, without any interruption.

Long-time battery recording

The low power consumption design and the BN-V428U high capacity battery mean that the camcorder can be operated for up to 84 minutes (with VF ON). Furthermore, since these batteries are commonly used in consumer camcorders, they are readily available to purchase.

Battery pack

	BN-V428U
Continuous operation time for GY-DV301E/GY-DV300E	120 min.*
Continuous operation time for GY-DV301E/GY-DV300E+KA-DV300U	84 min.*

** May differ according to how it is operated.*

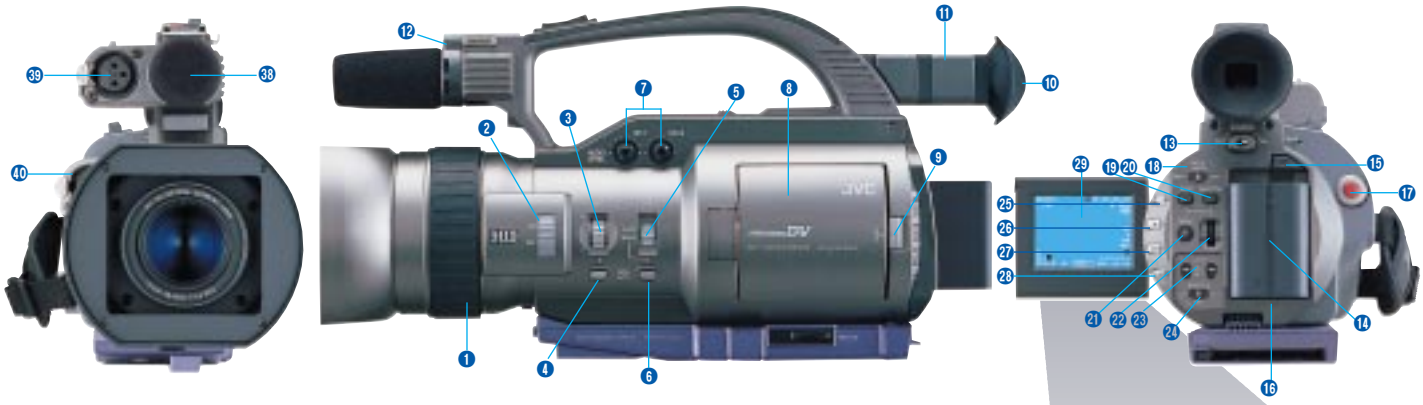
Time/date recording

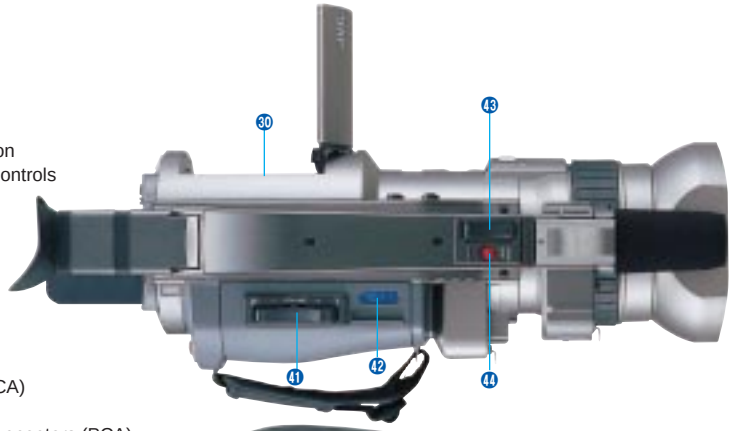
Time and date can be recorded on the tape. Time and date can even be recorded over the built-in colour bar output (4:3 mode only).

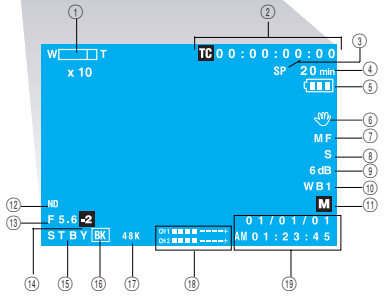
Other features

- Zebra pattern (4-step)
- Built-in colour bar
- Variable scan shutter
- XLR microphone connector x 2
- 1/32 ND filter
- Fade to black function

Controls, indicators, connectors







Right side section

1. Focus ring
2. [ND FILTER] switch
3. [IRIS] adjust dial
4. [IRIS PUSH AUTO] button
5. [FOCUS] switch
6. [FOCUS PUSH AUTO] button
7. [CH1/CH2 AUDIO LEVEL] controls
8. LCD door
9. LCD door lock release knob
10. Viewfinder
11. Viewfinder video angle adjust knob
12. Rec tally lamp

Left side section

31. [VIDEO OUT] connector (RCA)
32. [Y/C OUT] connector
33. [CH-1/CH-2 AUDIO OUT] connectors (RCA)
34. [EARPHONE] jack
35. [DV] 4-pin connector
36. Cassette cover
37. Microphone holder installation base

Front

38. Built-in microphone
39. [MIC1] input connector (XLR-3P)
40. [MIC2] input connector (XLR-3P)

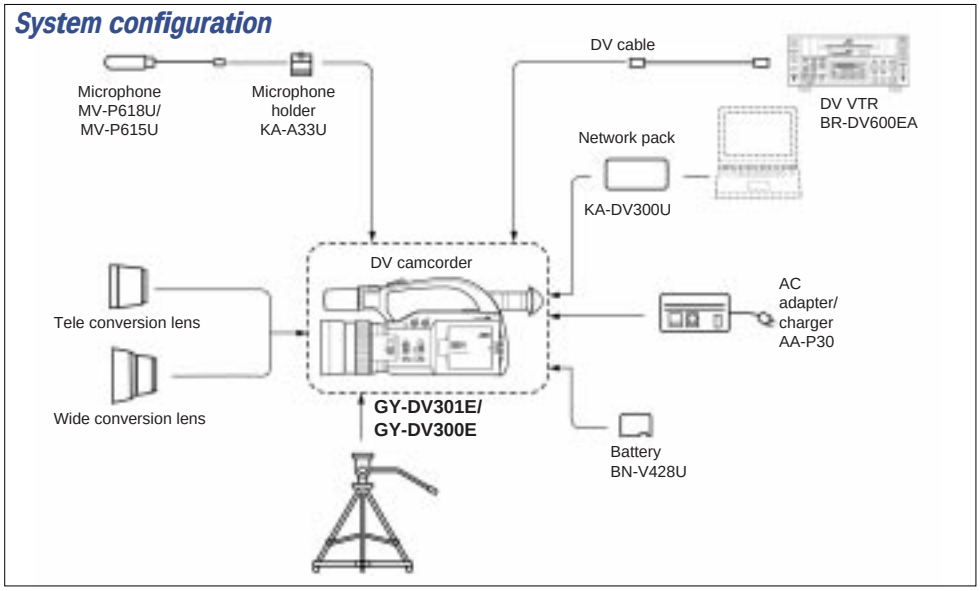
Upper section

41. Zoom/playback sound level adjust lever
42. [EJECT] switch
43. [ZOOM] lever
44. [START/STOP] Recording start/stop button

Rear

13. [POWER] switch
14. Battery installation section
15. Battery lock release button
16. [DC INPUT] connector (visible when the battery is detached)
17. Rec start/stop button
18. [MODE] select switch
19. [GAIN] select button
20. [SHUTTER] select button
21. [MENU] button
22. [SELECT] dial
23. [CH-1/CH-2 AUDIO] input select button
24. [MONITOR] button
25. [BAR] colour bar/playback·still button
26. [AW] auto white/stop button
27. [FWD] forward/FF button
28. [REW] reverse/REW button
29. LCD display
    - ① Zoom magnification
    - ② Time code indication
    - ③ Record mode indicator
    - ④ Tape remaining time indication
    - ⑤ Battery remaining time indication
    - ⑥ Optical image stabiliser indicator
    - ⑦ Manual focus
    - ⑧ Manual shutter mode indicator
    - ⑨ Manual gain mode indication
    - ⑩ Manual white balance mode indication
    - ⑪ Shooting mode indication
    - ⑫ Filter indicator
    - ⑬ Iris F number
    - ⑭ Iris correction value indication
    - ⑮ VTR mode indication
    - ⑯ Fade indication
    - ⑰ Audio sampling frequency indication
    - ⑱ Audio level meter indicator
    - ⑲ Date/time indication
30. Built-in speaker

System configuration



Specifications

General

Power requirement: DC 7.2 V to 12 V
Power consumption: Approx. 10 W (in the Record mode)
Dimensions: 357 (W) x 159 (H) x 130 (D) mm (14-1/16" x 6-5/16" x 5-1/8")
Weight: 1.4 kg (3.09 lbs.) (without battery)
Temperature
Operating: 0°C to 40°C (32°F to 104°F)
Storage: -20°C to 60°C (-4°F to 140°F)
Humidity
Operating: 30% to 80% RH
Storage: 85% RH or less

Camera section

Image pickup device: 1/3" interline-transfer CCD x 3
Colour separation optical system: F1.6, 3-colour separation prism
Total number of pixels: 470,000 (795 (H) x 596 (V))
Number of effective pixels: 440,000 (752 (H) x 582 (V))
Colour system: PAL (wide-band R-Y, B-Y encoder)
Colour bars: EBU type
Sync system: Internal sync (built-in SSG)
Lens magnification: 14x (optical)
Optical filter: 1/32ND
Sensitivity: F11, 2000 lux
Minimum illumination: 2.65 lux, LOLUX (100% video out)
Horizontal resolution: 700 TV lines
Gain: -3 ~18 dB (1 dB-step), variable gain (0.2 dB-step) in ALC and LOLUX (24 dB)
Electronic shutter: 1/120, 1/250, 1/500, 1/1000, 1/2000, variable (ALC)
Variable scan: 50.1 to 2067.8 Hz
Contour correction: Horizontal and vertical dual-edged

Lens section

Focus length: f = 5.6 mm to 78.4 mm
Maximum diameter ratio: 1: 1.6 (wide) to 1: 2.8 (tele)
Shortest shooting distance: Max. 1.0 m
Swaying correction range: ±0.3°
Filter diameter: 52 mm

VTR section

Format: DV format, SD specifications
Signal format: PAL
DV in/out resolution: 540 TV lines
Usable tape: MiniDV tape
Tape speed: 18.831 mm/sec. (SP mode), 12.568 mm/s (LP mode)
Record/play time: 60 minutes (with an M-DV60ME tape in SP mode), 90 minutes (with an M-DV60ME tape in LP mode)
FF/rewind time: Approx. 2 min. (with an M-DV60ME tape)
Time code: Drop, rec run, regeneration, preset (the beginning of the tape only)

[Video]

Video signal recording format: 8-bit, 13.5 MHz, 4:2:0 component recording

[Audio]

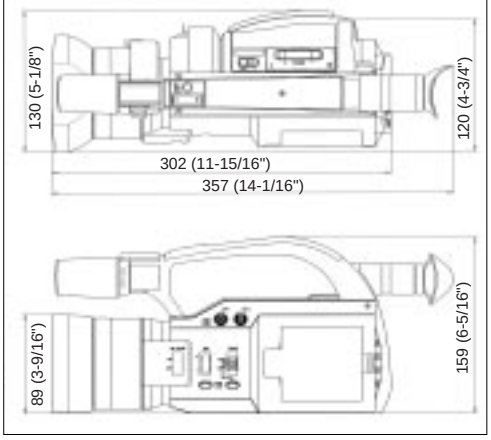
Audio signal recording format: 16-bit, 48 kHz PCM for 2 channels or 12-bit, 32 kHz PCM for 4 channels (recording only for 2 channels)
Dynamic range: 71 dB or more

[Connectors]

Video output: 1.0 V(p-p), 75 ohms, unbalanced (BNC) (composite video signal)
Y/C output: Y; 1 V (p-p), 75 ohms, unbalanced
C; 0.286 V (p-p), 75 ohms, unbalanced (4-pin)
Microphone input: -60 dBs, 3 kohms, balanced, +48 V output for phantom power supply
Audio outputs: -8 dBs, low impedance, unbalanced (RCA)
Earphone jack: -60 dBs to -28 dBs, 8-ohm impedance (monaural sound mini-jack)
DV (IEEE 1394): 4-pin
GY-DV301E: DV input/output
GY-DV300E: DV output only
Built-in microphone: uni-directional, sensitivity of -40 dBs

Dimensions

Unit: mm (inches)



KA-DV300U (Optionally available)

Network Pack

Dimensions:	191.5 (W) x 27.6 (H) x 74 (D) mm (7-9/16" x 1-1/8" x 2-15/16")
Mass:	150 g (0.33 lbs.)(main unit only)
Power supply:	Supplied from the GY-DV301E/GY-DV300E
Power consumption:	DC 7.2 V ---, 0.61 A (main unit only)
Allowable operating temperature:	0°C to 40°C (32°F to 104°F)
Allowable storage temperature:	-20°C to 60°C (-4°F to 140°F)
Allowable operating humidity:	30% to 80% RH
Provided accessory:	CD-ROM
File system:	ASF streaming/ASF file
Video compression system:	MPEG4 realtime
Sound compression system:	G. 726 realtime
Image size:	CIF (352x288), QCIF (176x144)
Video rate:	32k, 64k, 128k, 384k
Audio rate:	16k, 24k, 32k, 40k
Maximum frame rate:	30F (only with 176 x 144), 15F (12F with 384K), 7F, 4F
PC card slot:	Compatible with wired/wireless LAN card and CF card
Streaming:	ASF streaming with wired/wireless LAN card
Capturing:	ASF file with CF card
Setup via network:	Network setup, port setup, encoding parameters, camera control
Viewer/capture via network:	Streamcapture (system requirement: Internet Explorer 5.0 or later, Windows Media Player 7.1 or later)
VTR control via network:	REC/PLAY/PAUSE/STOP/FF/REW
Maximum delay time:	17 sec.

Streamproducer

(streaming software provided with the KA-DV300U)

Computer system requirements

(for Streamproducer operation)
CPU: 700 MHz Pentium III processor or greater
RAM: at least 256 MB
OS: Windows 2000 Professional
HDD: Depends on amount of continuous operation time required
LAN: Two ports (TCP/IP LAN interface)
Modem/router: must obtain global IP address

When the KA-DV300 is attached to the GY-DV301E/ GY-DV300E, the following functions are available.

(Recording)
1. Camera pictures can be recorded simultaneously on a DV tape and CF memory card.
2. Camera pictures can be recorded on a CF memory card only.
3. Playback signals from the DV tape can be recorded on a CF memory card.
4. DV input pictures can be recorded simultaneously on a DV tape and CF memory card (GY-DV301E only).
5. DV input pictures can be recorded on a CF memory card only (GY-DV301E only).

(Recording and transmission to LAN)
1. Camera pictures can be simultaneously recorded on a DV tape and transmitted to the LAN.
2. Camera pictures can be transmitted to the LAN without recording.
3. Playback signals from the DV tape can be transmitted to the LAN.
4. DV input pictures can be simultaneously recorded on a DV tape and transmitted to the LAN (GY-DV301E only).
5. DV input pictures can be transmitted to the LAN without recording.

*CF and LAN cards are not provided.

Options

BN-V428U

Lithium-ion battery

DC 7.2 V, 2,800 mAh
Net weight: 0.2 kg

AA-P30U (EK) (UK plug)
AA-P30U (EG) (Continental European plug)

AC adapter/charger

Two BN-V428U batteries can be charged continuously.

MV-P615U
MV-P618U

Microphone

	MV-P615U	MV-P618U
Exterior	Aluminum	Plastic mold
Power supply system	Phantom (48 V)	Phantom (48 V)
Connector	XLR-3P	XLR-3P
Sensitivity	- 65 dB	- 60 dB
S/N	50 dB or more	40 dB or more
Weight	140 g	90 g

KA-A33U

Microphone holder

BR-DV600EA

Professional DV VTR

VC-VDV204 (4P-4P, 2 m)
VC-VDV206 (4P-6P, 2 m)

DV cable

GL-V0752 (0.7x)

Wide conversion lens

GL-V1452 (1.4x)

Tele conversion lens

M-DV63PRO
M-DV80ME
M-DV60ME
M-DV30ME MiniDV tapes

M-DV12CL DV cleaning tape

Design and specifications subject to change without notice.

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