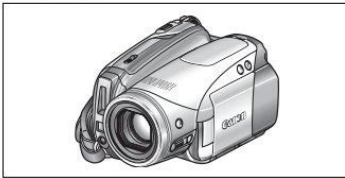


Canon

PUB.DIM-802

HDV Camcorder  
Instruction Manual **English**  
Caméscope HDV  
Manuel d'instruction **Français**  
Cámara HDV  
Manual de Instrucciones **Español**

## HV20



Mini DV Digital Video Cassette HDV HDMI PictBridge

Please read also the following instruction manual (electronic version on PDF file). For further details refer to the installation guide.  
Veuillez lire aussi le manuel d'instruction suivant (version électronique sur fichier PDF). Pour d'autres détails référez-vous au guide d'installation.  
Lea también el siguiente manual de instrucciones (versión electrónica en archivo PDF). Para mayores detalles, refiérase a la guía de instalación.  
• Digital Video Software

NTSC

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# canon vixia hv20 manual

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Retain Instructions — The safety and operating instructions should be retained for future reference. For areas where 120 V AC power is not used, you will need a special plug adapter. Contact your nearest Canon Service Center for further information. What is HighDefinition Video. Highdefinition video HDV allows you to record video of unparalleled high quality on regular miniDV tapes. Please read this manual carefully before you use the camcorder and retain it for future reference. Should your camcorder fail to operate correctly, refer to the Troubleshooting table Conventions Used in the Manual IMPORTANT Precautions related to the camcorder operation. Push the joystick up, down, left or right to select an item or change settings. This is helpful to avoid scenes that are too short. Tape operation Record, Record pause, Stop, Eject, Fast forward, Rewind, Playback,. Do not connect to the camcorder's DC IN terminal or to the compact power adapter any electrical equipment that is not expressly recommended for use with this camcorder. NOTES The CHARGE indicator also serves as a rough estimate of the battery charge status. Continuously on Battery fully charged. Flashes approx. twice per second Battery over 50% charged. Memory cards have front and back sides that are not interchangeable. Inserting a memory card facing the wrong direction can cause a malfunction of the camcorder. In such case, recharge the builtin lithium battery 93 and set the time zone, date and time again. If the currently selected recording standard. About the Power Save mode To save power when the camcorder is powered by a battery pack, the camcorder will automatically shut off if left without any operations for 5 minutes 44. The zoom speed with these buttons will be the same as 49. To resume the playback press. The volume of the headphones cannot be adjusted while recording. The following may not be displayed correctly. Images not recorded with this

camcorder.

Images edited on or uploaded from a computer. Images whose file names have been changed. Jump the number of images selected. For details about how to select an item, refer to Using the Menus FUNC. For further details about the HDMI connection, refer to Connecting to a TV or VCR Terminal. Turn off the data code. Special Scene Recording Programs . The camcorder automatically sets the appropriate shutter speed. Use low aperture values larger lens opening to softly blur the background. Check the image on the screen. Make sure to use a tripod especially in, as the shutter speed slows down. Manual Focus Adjustment Autofocus may not work well on the following subjects. In such case, focus manually. Focus Assist Functions The focus assist function will magnify the center of the picture and emphasize the. The camcorder retains the custom setting even if you turn off the camcorder. Press to save the setting and FUNC. Light Metering Mode The camcorder measures the light reflected from the subject in order to calculate the optimal exposure settings. Depending on the subject, you may want to change the way the light is measured and evaluated. Automatic Focus Priority When the focus priority is activated, the camcorder records a still image only after the focus has been adjusted automatically. Still Image Recording Options POINTS TO CHECK Mode switch at cannot be turned off. You can select the data to be displayed. Use the histogram as a reference to verify the correct exposure of the still image. Consider turning it off in public places such as restaurants or theaters. In such case, we recommend using an external microphone. The camcorder retains the setting last used even if you turn off the digital effects or change the recording program. Applying Depending on the operation mode, these positions may be empty or show a different icon. Erased images cannot be recovered. NOTES Protected images cannot be erased. Erasing a Single Image If the joystick guide does not appear on screen, press to display it.

Initialize all memory cards before using them with this camcorder. FUNC. FUNC. CARD OPERATIONS INITIALIZE INITIALIZE FUNC. Open the terminal cover to access. Connecting to a TV or VCR Terminal COMPONENT OUT Terminal. Inserting it in the wrong direction can result in damage to the camcorder. Output connection Signal Flow HDMI cable Commercially available Connecting to a TV or VCR Connecting Cable to an HDTV with component video input terminals. Inserting it in the wrong direction can result in damage to the camcorder. Output connection Signal Flow Input connection Signal Flow AV terminals. Do not connect it to an HDMI output terminal on an external device, as this may damage the camcorder. Connecting to a TV or VCR Proper operation cannot be guaranteed for all digital devices equipped with a DV terminal. Video input will be recorded on the tape in the same standard of the original HDV or DV. Inserting it in the wrong direction can result in damage to the camcorder. Connecting to a Computer USB Terminal Open the LCD panel cover to access. After a short while, turn them on again, set the camcorder to connection. Connecting the Camcorder to the Printer Insert the memory card containing the still images you want to print. Observe the following precautions during printing Do not turn off the camcorder or the printer. Do not change the position of the switch. Do not disconnect the USB cable. Printing the Still Images Marked with Print Orders PRINT FUNC. Troubleshooting If you have a problem with your camcorder, refer to this checklist. Consult your dealer or a Canon Service Center if the problem persists. When using the camcorder in a room where a plasma TV is Video noise appears on the TV screen. The tape stops during record pause or playback pause. Horizontal bands appear on the screen. Check again that the camcorder is properly connected to the TV. Solution Disconnect the USB cable and turn off the camcorder and the printer.

After a short while, turn them on again, set the camcorder to mode and restore the connection. Message PAPER ERROR There is a problem with the paper. Cancel printing. ERROR Disconnect the USB cable and turn off the camcorder and the printer. After a short while, turn them on again, set the camcorder to and restore the connection. When you are printing using the check the print settings. Be careful when closing the LCD panel. Do not leave the camcorder in places subject to

high temperatures like the inside of a car under direct sunlight, or high humidity. Do not turn off the camcorder, disconnect the power source or remove the memory card while the CARD access indicator is flashing. Do not use wet type cleaning cassettes as this may damage the camcorder. Consult the Canon Service Center for information on plug adapters for overseas use. Playback on a TV Screen. Please use the LCD screen and keep a distance from the microphone. This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canonbrand accessories or products bearing the same mark. General Information. Performance cannot be guaranteed for all miniSD cards. This camcorder supports Exif 2.2 also called "Exif Print". Exif Print is a standard for enhancing the communication between camcorders and printers. The limited warranty is only effective upon presentation of your Bill of Sale or other proof of purchase. Labour For a period of one year from the date of original purchase, labour will be provided free of charge by our Canon Service Facilities in Canada. NATIONAL HEADQUARTERS 6390 Dixie Road, Mississauga, Ontario L5T 1P7 CANON CANADA INC. The HD CMOS sensor and the DIGIC DV II image processors are at the heart of what makes this piece of tech appealing to those who crave advanced features. One example a zoom lens that will come in tight at 10x amplification. The HV20 also provides high performance audio capabilities with an auto stabilization feature.

Best of all, this is compatible with many of the SD models out there, so theres no need to go out and scrap the old equipment. With a known name like Canon, this camera deserves a place in the serious videographers camera bag. A great HD camera to get started with. Instantly shoot another tape way cheaper than digital media cards tapes work like a permanent backup. Way steadier and smoother shots than Gopro. If you are trying to make a quality film with Hollywood type shots this is the one HV 20 HV30 HV40 . Proven tape technology just make sure your computer has a firewire input. It is reasonably light and compact, and I have liked the fact that it uses tape because that prevents losing any whole files due to corruption of data. That camera failed after three years, for an unknown reason, but I repaired it and also bought an HV30, to stay in the same type of tapes and functioning. Both models work almost identically, so there is no issue in switching back and forth. I sometimes use the HV20 in a scuba housing, and it is important to me that it has a rear viewfinder, since there is no room in that tube to open the side screen. The image quality is like being there, so much better than with older video and film, and th e batteries last through one or sometimes two hourlong tapes, depending on the shooting situation. So 100s of reviews of this thing exist. Why pitch in 2 more cents if theyre not of any value, right Youre looking at this camera, and its great. Its the second generation of a 4 generation consumerlevel legendary lineup. Its an HDV High Definition Video MiniDV camera. Please dont scoff at this as a relic of 6 years ago. Heres why. I am the AV director for my church, and as of recent we have desired to STREAM VIDEO out of the church to the masses. Oh, but do that with quality. Bingo the HV20. Ill leave the rave qualities to the reading that can be found in other reviews.

The REAL bottom line is th at this camera is CURRENT 1080p 24fps with a few decent controls for those interested in manual settings me, acceptable 10x optical zoom but can be mated with other fixed converter lenses like we have in the Vivitar Series 1 line, employing a 58mm x.43 and x2.2 lens we have two cameras. Life is compromise. HD video ISNT HD once you compress it into the streamed video world. Does that mean is doesnt look good, or doesnt work well. They are lightweight and produce a broadcast quality image in good lighting. Unlike many newer camcorders the single CMOS chip Canon HV20 records using MiniDV videotape cassettes. Recording can be selected for the HDV high definition format or standard definition DV format. Both formats record data at 25 mbps. An especially useful feature of recording with HDV videotape is the convenience of editing. Both HDV and DV tapes can be easily transferred into a computers video editing software. Much more so than video recordings made with the newer AVCHD solid state digital format. For editing the AVCHD video files usually have to be converted to another high definition format and the conversion procedure requires a computer with except ionally large storage drive capacity hundreds

of gigabytes. The Canon HV20 is very compact and lightweight. Its great for traveling and on location photography. The camcorder has dozens of special features with manual control available for all aspects of the recording. The Canon HV20 also has the ability to record at 24 frames per second progressive which creates a sort of film effect. I've used Canon HV20s for both principle and B roll scenes in combination with larger professional video gear. These cameras are a cult favorite and for good reason. Canon incorporated many features found in high end cameras mic level control and monitoring, manual picture control into the HV20. Even today, Canon still sells this cameras replacement, the HV40, due to demand.

Yes, this camera uses tapes, but unlike AVCHD flashbased camcorders, it uses MPEG2 video that most computers can easily edit. The only real benefit AVCHD cameras have over the HV20 is true 1920x1080 video resolution HDV is natively 1440x1080 and the ability to shoot 60p video. The latter only supported by a handful of cameras not Canons ironically enough, and requires a very powerful computer to edit. Most people wont even notice the difference, particularly if your final product is going to be posted on an online video sharing site like YouTube. The only issue I noticed with this camera is that the built in mic picks up a lot of camera noise tape transport, zoom lens and handling noise. This can easily be solved by connecting an external microphone, which the HV20 has a port for. Verisign. One of the biggest features this camera brings to the consumer camcorder market is the ability to capture in 24p, the same frame rate used in movie film. When you add a Canon Optics HD lens, 10x optical zoom and a DV II processor you get ultrasharp color and incredible detail even from a distance. In order to ensure you get the highest possible video quality and picture Canon added an HDMI output and hot shoe terminal to the HV20. As impressive as the HV20 is as a camcorder, it gets even better as a 3.1 megapixel digital still camera. Store images on tiny HC MiniSD memory cards with the MiniSD card slot. The optical image stabilizer and advanced AF auto focus make it easy to get crisp clean video and photos. Canon fit everything you can ask from a camcorder in the HV20, all in a body that fits comfortably in your pocket. The HV20 also offers Playback of 60i, 30F, 24F and 24p video. HD 1920 x 1080 The HV20 captures true 1080 High Definition resolution video in 169 format, using MiniDV cassette tapes. HDMI Output Many consumer products are adopting High Definition Media Interface HDMI connections for transmitting uncompressed digital HD video and audio signals.

Canon has upped the ante by incorporating this into the already extensive array of video output choices on the HV20. Simply hook the camera up to your HDTV via this interface and view all your footage the way it was meant to be seen purely digital. DIGIC DV II Processor Thanks to DIGIC DV II image processing, the HV20 produces video with improved color reproduction ideal for skin tones, and dark and light scenes. It also uses a noise reduction system that uses two types of noise reduction, for HD images that are crystal clear. Instant AF Auto Focus The Instant AF feature uses an external sensor, together with Canons autofocus system, to help significantly decrease the time it takes to find the focus, even in low light conditions. This system achieves focus instantaneously, eliminating the struggle needed to find the correct focus. Hot Shoe Plug an accessory microphone, light, etc. into the HV20s advanced accessory shoe and the camcorder will immediately provide it with power. Optical Image Stabilizer OIS While a digital image stabilizer compensates for shaking by adjusting the picture frame by frame, an Optical Image Stabilizer OIS avoids the shaking before the image is captured. The Variable Zoom Speed Control maintains the speed of your zoom so that everything looks smooth and professional. Level and Grid Markers Not sure if your shot of the sunset over the New York skyline is actually level. The Level marker places a horizontal line across your screen so you can make sure your shooting at the perfect angle. Let us know YOUR RECENTLY VIEWED ITEMS Browsing History ON Clear History Not responsible for typographical or illustrative errors. Used Very GoodIncludes camera, battery, battery charger, av cable, usb cable, and hand strap. 90 DAY WARRANTY Please try again.Please try again.Please choose a different delivery location.In order to navigate out of this carousel please use your heading shortcut key to navigate to

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Page 1 of 1 Start over Page 1 of 1 In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Register a free business account Please try your search again later. For those seeking the ultimate in HD video quality, we bring a host of Canon Exclusive features you won't find anywhere else from our own 2.96 megapixel Full HD CMOS image sensor and advanced DIGIC DV II image processor, delivering breathtaking detail and the best in color reproduction, to SuperRange Optical Image Stabilization and Instant Auto Focus to give you the ultimate control demanded by High Definition. With the Genuine Canon 10x HD video zoom lens and a host of other advanced features the VIXIA HV40 is sure to be your choice in High Definition camcorders. If you wish to continue to use your existing Standard Definition equipment, the VIXIA HV40 has both SD and HD recording modes. The VIXIA HV40 is easy to use and delivers the high level of performance you've come to expect from Canon. Our vast experience with photographic and broadcast television cameras brings you the optical excellence, advanced image processing, superb performance, and the latest in technological advancements you expect. The VIXIA HV40 is the premium quality High Definition video tape camcorder for sophisticated and discerning videographers. Canon VIXIA HV40 Highlights The Image Quality of HD Video The VIXIA HV40 is the HD camcorder to go along with everything else in your HD world. It captures true 1080 High Definition resolution video in 16:9 format, using MiniDV cassette tapes. The VIXIA HV40's true 16:9 widescreen HD image is made for your HD widescreen TV. High Definition and widescreen are the future. Be sure you invest in that future with Canon's VIXIA HV40. At the same time, the VIXIA HV40 gives you the flexibility to record in SD standard definition mode, too.

That means you can enjoy the ultimate in HD video and photo quality, and still shoot SD video for viewing on your non-HD equipment. Genuine Canon 10x HD Video Lens Since 1934, Canon has been producing exceptional photographic lenses that are synonymous with unsurpassed optical performance. Because of Genuine Canon Optics, every Canon broadcast lens, 35mm film camera, digital camera and camcorder assures brilliant optical quality and the VIXIA HV40 is no exception. The VIXIA HV40 comes with an outstanding High Definition video lens a 10x HD Genuine Canon Optical zoom. It's the lens you need to record long shots of your child on the soccer field, wide shots of beautiful landscapes, and everything in between. And because it comes with three preset zoom speeds, you always get smooth, steady, professional-looking zoom shots. Super Spectra coating technology results in images with minimal flare and ghosting. Plus, the lens aspheric design reduces aberration and increases resolution, ensuring crisp, sharp video and enhancing the HD image quality. As well, a new gradation ND system gives you better exposures in bright shooting situations. Canon Exclusive Canon 2.96 megapixel Full HD CMOS Image Sensor The VIXIA HV40 features a Canon designed and manufactured CMOS image sensor. The CMOS image sensors in Canon's EOS Series Digital SLR cameras result in outstanding digital photographs. In the VIXIA HV40, the CMOS sensor reproduces high-resolution images at 1920 x 1080 resolution with Full HD information in video images. Compared to a CCD, the VIXIA HV40's CMOS's high color resolution and advanced color reproduction gives brilliant results. It also features Canon's proprietary noise reduction technologies for crisp, sharp images. Low noise technology also means that even in dimly lit scenes, the signal from each pixel is as pure as possible, with minimal noise or other aberrations. It's the ideal sensor for HD.

The VIXIA HV40 uses an RGB Primary Color Filter with Bayer Placement Pattern that separates light into red, green and blue color components. This results in vibrant images with deep, rich, accurate color and natural-looking tones similar to what you'd obtain from 3CCD camcorders. In addition, it is the Bayer pattern that delivers sharp, high definition images without creating false colors. As an added benefit, the CMOS sensor provides outstanding image capture in low light conditions. Canon Exclusive DIGIC DV II Image Processor DIGIC DV II is the second generation of Canon's exclusive

DIGIC DV signal processing technology. Designed specifically for HD, DIGIC DV II ensures optimal image quality. It also ensures optimal image quality for still images, even though video and still images have different color requirements. DIGIC DV II is just another one of Canons advanced technologies that make the VIXIA HV40 an exceptional performer. Thanks to DIGIC DV II image processing, the VIXIA HV40 produces video with improved color reproduction especially in skin tones, and dark and light scenes. It also uses a hybrid noise reduction system that employs two types of noise reduction for high definition images that are crystal clear. Plus, DIGIC DV II enables improved continuous shooting of digital photographs with the VIXIA HV40. You can shoot five 3.1 Megapixel still images per second, and enjoy faster processing of your images to your memory card 1.4x normal card; 2.5x Hi Speed card. It also helps lower power consumption for longer battery life. Canon Exclusive SuperRange Optical Image Stabilization Canons innovative SuperRange OIS combines gyro and image sensors to give image stabilization through a wider range of camera motions. Some image stabilization systems correct one type of camera motion or vibration better than another.

But Canons SuperRange OIS corrects for a wide range of camcorder motion the fast vibration youd experience while recording from a moving car; the medium speed motion of handheld recording; and the slower motion of body sway. No matter what youre recording and how youre recording it, the VIXIA HV40s stabilization design corrects camcorder shake instantly. SuperRange OIS also delivers steady images when shooting at long focal lengths. SuperRange OIS in action In addition, SuperRange Optical Image Stabilization keeps your shot steady without a loss in image quality something that cant be said for electronic image stabilization. And image stabilization isnt just for video; you can even use it for taking sharper, clearer digital photographs with your VIXIA HV40. Thanks to Canons expertise, its easy to eliminate one of the telltale signs of amateur video and photography. Canon Exclusive Instant AF Auto Focus Since it is critical to achieve very sharp focus when shooting in High Definition, the VIXIA HV40 camcorder features Canons revolutionary Instant AF focusing system. It offers a dramatic improvement in auto focus speed and accuracy compared to traditional autofocus systems. The Instant AF feature uses an external sensor, in combination with Canons autofocus system, to help significantly decrease the time it takes to find focus, even in low light conditions. With Instant AF, its possible to get fast, accurate focusing, even when following a moving subject. Native 24p Mode This is a feature previously found only on Canons professional camcorders. Native 24p Mode allows 24 frames per second, instead of the standard 60i, to be captured and recorded. In addition, you can use the VIXIA HV40s CINE setting, which changes the color and tonal characteristics, evoking the look and feel of a movie shown in a theater. For added flexibility, these settings can be used together or independently. Normal mode vs.

Cinema mode 30p Progressive Mode Until quite recently, youd have to look to professional video cameras in order to have this sophisticated tool at your command. In addition to the standard interlaced video frame rate of 60i, you may choose to set the VIXIA HV40 to record 30p Progressive Frame Rate. This is particularly useful for footage you plan to upload to the Internet for sharing. In addition, this setting gives enhanced quality to still images captured after recording. 30p Progressive Mode is also excellent for capturing quick action shots and sporting events. 60i vs. 30p Builtin 3.1 megapixel Digital Camera Canons advanced image processing technology means your HD camcorder is also a high performance digital camera capable of capturing stunning 3.1 megapixel photos to a miniSD card. Its like having an HD camcorder and digital still camera all rolled into one. Whats more, the VIXIA HV40s many advanced photo features make it a camera that rivals other stateoftheart digital cameras. With Canon technology, its not just video and photos its the best of both. 2.96 megapixel Full HD CMOS The same Canon Exclusive 2.96 megapixel Full HD CMOS image sensor that ensures sharp, vivid HD video also gives you brilliant digital photographs. Like the CMOS image sensors in Canons EOS Series digital SLR cameras, the VIXIA HV40s image sensor results in outstanding digital photographs. It gives an impressive resolution of 1920 x 1440 for

sharp, crisp still images. Canon DIGIC DV II Image Processor The DIGIC DV II Image Processor, a Canon Exclusive, enables improved continuous shooting of digital photographs with the VIXIA HV40. You can shoot five 3.1 Megapixel still images per second, and enjoy faster processing of your images to your memory card 1.4x normal card; 2.5x Hi Speed card. Focus Features Auto Intelligent Auto Focus ensures sharp images and gives creative flexibility.

Even when your subject isnt in the center of the frame, the VIXIA HV40s AiAF will automatically select from 9 metering frames on the screen to help bring images into sharp focus. Since it is critical to achieve very sharp focus when shooting in High Definition, the VIXIA HV40 camcorder features Canons revolutionary and exclusive Instant AF focusing system. It offers a dramatic improvement in auto focus speed and accuracy compared to traditional auto focus systems. The Instant AF feature uses an external sensor, in combination with Canons auto focus system, to help significantly decrease the time it takes to find focus, even in low light conditions. Its even possible to achieve fast, accurate focusing, even when following a moving subject. And because a properly focused subject is more critical than ever with HD, the VIXIA HV40 also features Focus Assist. This helps in capturing your subject in razor sharp focus when you start recording, this assistance is automatically cancelled. Auto Exposure Modes Like any good digital still camera, the VIXIA HV40 lets you choose from a range of exposure modes. Auto mode automatically sets the exposure, letting you concentrate on your subject. AV aperture priority mode lets you control depth of field by letting you choose the aperture. TV shutter priority mode lets you select the shutter speed for sharp action shots. In P program mode, the camcorder adjusts camera settings automatically. Program AE Mode Your life happens everywhere, so the VIXIA HV40 gives you settings that automatically result in the best exposure settings for different conditions and different subjects. Portrait mode ensures shallow depth of field for a pleasing background to your shots of friends and family. Sports mode stops the action with faster shutter speeds. Night mode is designed to give you great shots after the sun goes down. Snow and Beach modes compensate for bright surroundings and give you the proper exposure on your subject.