SONY

High Definition Video System

Digital HDVS®

HDCAM™

Sony Digital Camcorder

HDW-750
HDW-750CE

1/2-Inch Platform Advances to Greater Heights

Since introducing its first models, Sony has continually enhanced the BATACAM™ Series of products, each offering the highest possible performance and always preserving a consistent half-inch platform. The excellence of the analog BATACAM™/BATACAM SP™ formats introduced an entirely new set of opportunities to ENG and EFP, while the use of digital processing in the Digital BATACAM™, BATACAM SX™, and MPEG IMX™ formats brought standardized 4:2:2 digital recording into both news gathering and field production. Today, each format is in service in a multiplicity of programming applications, offering the pinnacle of reliability and performance that only BETACAM technology provides.

In 1997 Sony revolutionized HDTV program origination with the introduction of the 1/2-inch camcorder the HDW-700. This was soon followed by the HDW-700A camcorder, which operates according to the updated 1080/60i production standard. This camcorder, in association with its editing VTR the HDW-500, extended the BETACAM format tradition into the realm of mobile HD program creation. In 1999 the HDCAM™ format was dramatically broadened to include the new multi-frame rate camcorder the HDW-F900 and its companion VTR the HDW-F500 -- both responding to the breakthrough new ITU 709 global standard for international HD program origination. The pivotal inclusion of the new 24-frame progressive format in this standard constituted a central design imperative for the HDW-F900/F500 system and introduced to the world the first digital 24-frame motion picture capture system.

With the HDW-F900/HDW-F500 Series squarely addressing the needs of movie-making and high-end prime time television program and commercial production, Sony returned to the central agenda of a mainstream HD capture system in support of the emerging broader DTV broadcasting agendas around the world. This is based upon the SMPTE 274M HD production standard. A new generation HDCAM camcorder has been developed which is intended as a more cost-effective and feature enhanced system specifically designed to streamline the worldwide migration to DTV. HDW-750 is applicable for 1080/60i, and HDW-750CE is for 1080/50i. A central design strategy was to more firmly incorporate this new HDCAM system into the totality of Sony's 1/2-inch acquisition and editing platform. Accordingly, this system's studio VTRs, the HDW-2000 series offers not only full HDCAM record and editing functionality, but also includes both the all-important legacy playback of all standard definition Betacam formats and internal up-conversion of that playback to the 1920 x 1080 digital sampling format for play out in the HDTV format. Another notable advantage is that digital down-conversion is featured with an optional plug-in type down converter board, thus allowing the creation of "Super-sampled" digital 4:2:2 SDTV program material.

The HDW-750* camcorder has been designed in association with this system. It is intended to provide optimum system and economical balance with the HDW-2000 series of studio VTRs. It is offered with the choice of either 1080/60i or 1080/50i HDCAM recording capability. Its extremely compact and lightweight design and robust and reliable construction are direct results of retaining the industry renowned for which Betacam format legacy.

Some innovative new functions are added to meet the ever-changing various requirements in the field. This latest addition to the HDCAM Series of products is a high performance but economically well-balanced solution for next generation ENG and EFP programming.

*Two models of HDW-750 are available: the HDW-750 for 1080/60i operation and the HDW-750CE for 1080/50i operation.

Technical Innovations – Enhance Shooting in the Field

The compact and stylish body of the HDW-750 contains many technological innovations. They are brought together to enable the creation of some of the most versatile and outstanding in-the-field visual experiences of the new century, while ensuring durability and ease of use for the challenging conditions of field shooting.

HAD Sensor Technology

The well-established innovations of CCD technology already incorporated in Sony's HDC-900 Series cameras and HDW-F900 camcorders are also used in the new HDW-750 camcorder. Inheriting Sony HAD sensor technology and on-chip lens structure of the latest Power HAD™ sensors, this imaging device is based on the 1920 x 1080 CIF (Common Image Format). With its light collecting capability dramatically improved, this 2/3-inch type, 2.2-million-pixel FIT CCD, boosts the sensitivity to an industry-leading f10 at 2,000 Lux, thus enabling image capture in extremely low light conditions. The signal-to-noise ratio is 54 dB and vertical smear is less than –135 dB*.

*Typical numbers.

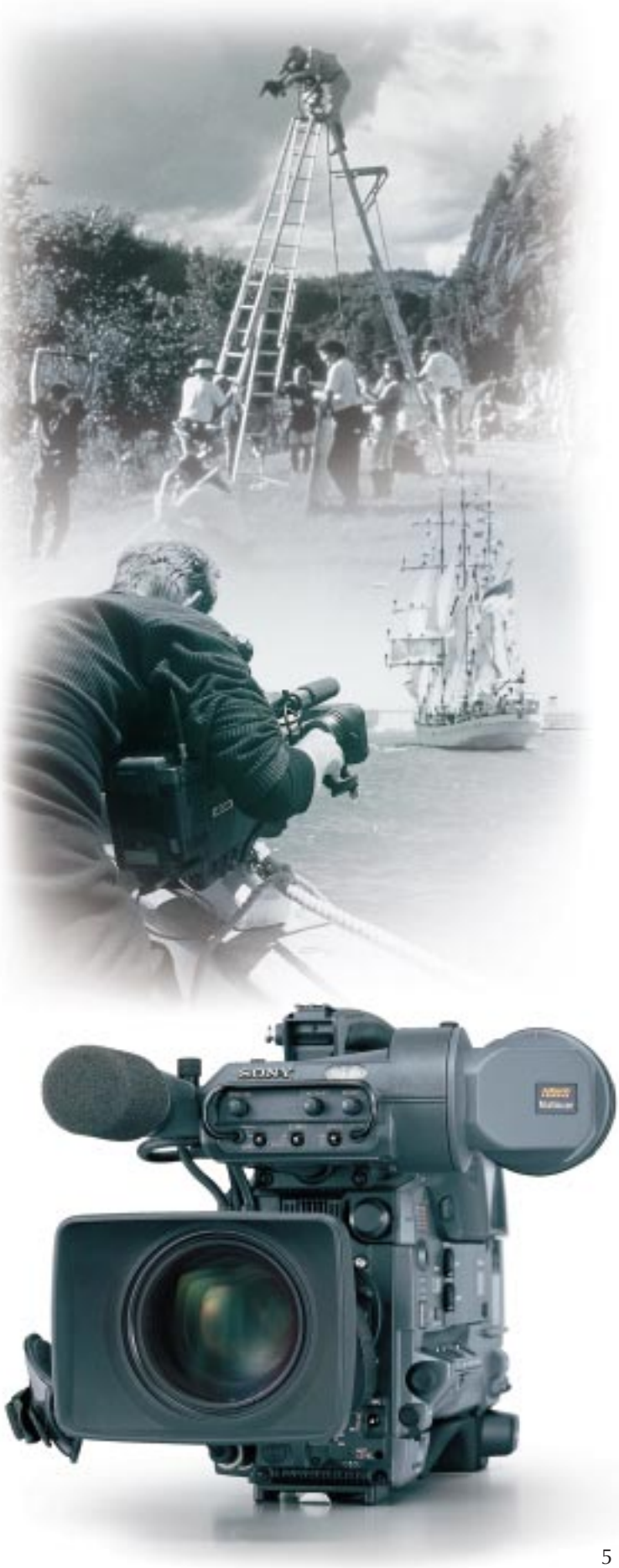
10-bit A/D and Advanced Digital Signal Processor

The new HDW-750 uses the proven 10-bit A/D converter and Advanced Digital Signal Processing (ADSP) presently used in the HDW-700A. They ensure low-power operation and superb picture quality. A 600 % wide dynamic range and excellent tonal reproduction, combine with creative manipulation of picture parameters for "in-camera effects", which were pioneered by Sony and are now widely accepted among Digital Cinematographers. The well known **Memory Stick™** setup system allows various setup parameters to be stored and recalled as required. These include all factors relating to colorimetry and tonal reproduction adjustment, so that at any time (such as a scene re-shoot) these settings can always be readily accessible.

To help maximize the camera image-making capabilities, special attention has been paid to the careful design of the camera menus so that access to certain image parameters is user-friendly and intuitive.

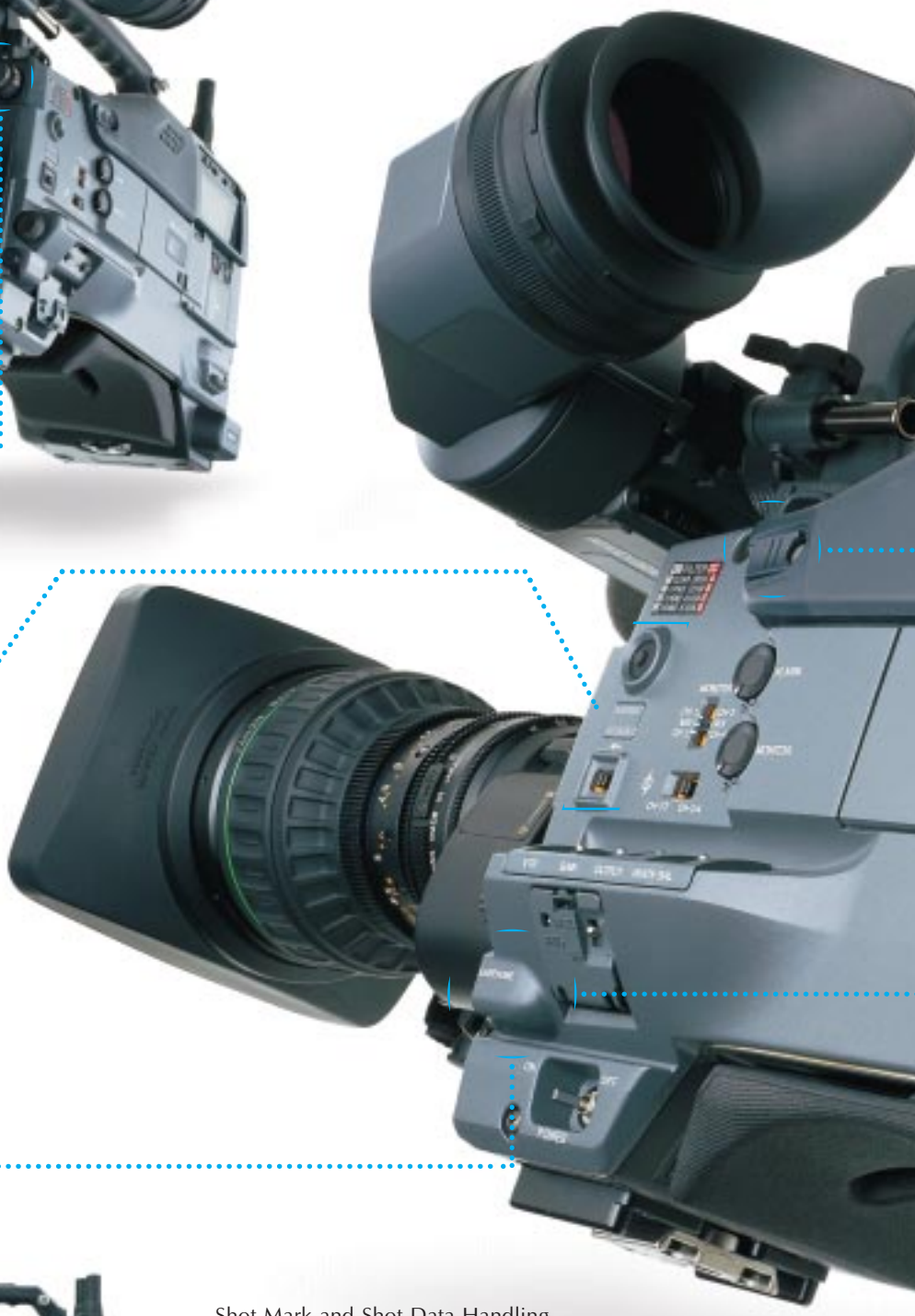
New Ergonomics

Sony has been continually improving camcorder body design over many years, always trying to make them more user friendly and practical as well as stylish and appealing. Another important factor, especially for the challenging conditions of ENG shooting, is the attention to physical robustness as well as maintaining a compact and lightweight camcorder. To meet these conditions, the body design of the HDW-750 is totally new, but all switches, meters and indicators are in the most logical places and are positioned for optimum functionality and ease of use. This has been achieved through meticulous consideration of the human physiology and the application of fundamental ergonomic principles. The operation of every single switch and button reflects our thorough understanding of the operator's needs and working practices. Sony has been making professional cameras for over 20 years, and during that time we have listened very carefully to suggestions that users have contributed to ongoing refinements to camera body design. The superb weight distribution and balance combined with a low optical axis make the HDW-750 particularly suitable for hand-held shots. It also sits comfortably on the shoulder and can be easily carried with minimum fatigue. Even with the viewfinder, battery, cassette, microphone, the total weight is only 5.4 kilograms (less than 12 pounds). This astonishingly compact and lightweight camera opens new possibilities for handheld creative camera work while delivering uncompromising picture quality. This new, compact and stylish body of the HDW-750 houses some very highly innovative technologies.



Dual Optical Filter Wheels

For the optical picture treatment, two independent filter wheels, one is for Neutral Density (ND) and the other is Color Correction (CC), are installed. An optional servo filter drive unit, the BKDW-701, can also be fitted allowing filter settings to be changed with the RM-B150 Remote Control Unit.



Two Assignable Buttons

You can assign two required functions to these switches, functions which are frequently used in the field, for instance to be operated with a single action of touching a button, such as Viewfinder Return, Record etc.

Dual Earphone Output

The HDW-750 is equipped with two earphone outputs, one is output from the front side of the camcorder body, and the other is from rear side. These two outputs can be used simultaneously.

Shot Mark and Shot Data Handling

The HDW-750 is capable of recording shot marks (time codes for 'good' shots) and shot data (data, shot ID, cassette number etc.) to the tape. When a tape containing shot marks is played back on an HDW-2000 series VTR, the shot mark positions are automatically detected and list of all marks is generated for display on a video monitor. This allows operators to easily select and cue-up to the scene of interest. The shot marks and shot data can be utilized for a wide range of applications to provide more efficiency in the production chain.

Turbo Gain

The inherent sensitivity of the HDW-750 is high enough to capture images under various low light conditions, but in some situations it is necessary to image in unusually low light conditions. The Turbo Gain function immediately boosts up the gain level to an incredible +42 dB at the touch of the button. Thanks to this function, it is possible to capture critical scenes down to around 0.3 lux of incident scene illumination – somewhat exceeding the color sight capability of the human eye.

Slot-in Wireless Microphone Receiver (Built-in UHF Synthesizer Receiver Unit)

The optional WRR-855A/855B Wireless Microphone Receiver can be fitted directly to the HDW-750 camcorder using a slot-in mechanism that gives a cable less interface between the camcorder and the receiver. This system increases mobility by maintaining compact overall dimensions even when the receiver is attached to the camcorder.

*WRR-855A/855B is an option.

LCD Status Panel and Diagnostic System

All the main operational controls and switches are located on the left-hand side of the camcorder. The LCD panel is on the same side, and shows a wide range of status and diagnostic displays such as Tape Remaining, Battery Level, Audio Levels, etc.

Stereo Audio Output

A stereo audio line output is available from the 5-pin XLR connector on the rear of the camcorder. This provides two analog audio output channels, which can be selected to be either Channel-1/2 or Channel-3/4.

Tally Lamp

Newly added is the Bottom Tally light located in the connector panel section of the rear of the camcorder body.

HD SDI Output for Field Monitoring

The HDW-750 directly provides an HD-SDI output with four channels of embedded digital audio. You can monitor all image capture in the field as high quality HD images without any adapter.

Extended Clear Scan

The Extended Clear Scan function is particularly useful when shooting scenes that contain computer or TV screens as it minimizes the horizontal bars that can appear. The ECS shutter speed is continuously variable.

Cassette Loading

The cassette loading is fast, simple and reliable. It takes less than 5 seconds* for a cassette change. This ease of change and long recording runs (40 minutes: HDW-750, 48 minutes: HDW-750CE) offer new levels of efficiency on location. The loading mechanism is robust and designed to be dust and drip proof. The vertical cassette loading helps to minimize the risk of anything unwanted getting into the tape mechanism. It also reduces the unwanted sound of a fast rotating VTR drum to be captured via an on-board microphone of the camcorder.

*Sony measurement.

Electronic Shutter

The electronic shutter helps in capturing clear images of fast-moving objects by selectively minimizing motion blur.

Safe Area Markers

To allow for individual production requirements, the HDW-750 provides safe-area markers for any aspect ratio.

Intelligent Light Shoe

The HDW-750 HDCAM camcorder incorporates an intelligent light shoe on the upper part of the carrying handle. An standard two-pin socket provides up to 50 watts of power from the attached battery. The power can be switched on and off manually or, when in Auto mode, it can be set to be synchronized with the operation of the REC button. A switch on the side of the camcorder selects Manual or Auto mode.

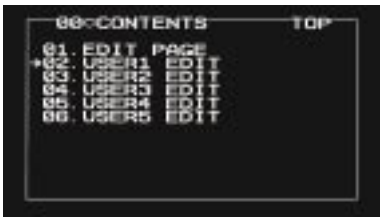
Lens Mount

The B-4 mount ring of the HDW-750 is strong enough to support the heaviest of lenses. Same as other Sony HD cameras/camcorders, conventional lenses for SDTV systems can also be attached to these camcorders.

Processing Innovations – Enhance Creative Image Capture

Menu-driven set up that enables creative image making in the studio or field has been widely accepted. To help this creative process, we have made it very easy to customize the settings of many image parameters, and then digitally save these settings. A simple and intuitive menu driven set up has freed camera adjustments from being a purely engineering exercise into a uniquely creative process. Various setup parameters can be stored and then transferred between camcorders via the Memory Stick storage medium. This capability represents a major advance in operational and creative versatility. The design of the menu "page layout" for the HDW-750 is inherited from HDW-F900 multi-format HD camcorder*, –an easy and intuitive camcorder set up system. "Page customization" is also inherited to speed up the operation by allowing relevant parameters to be grouped together to allow operators fast access to the adjustment required for a given production. Some of the most important operational adjustments are described below.

*Set up data is not compatible between HDW-F900 and HDW-750.



Colorimetry

The HDW-750 produces pictures with astonishing color reproduction capability and offers controls that offer further creative color manipulation.

Multi Matrix

Multi Matrix offers unique possibilities for creative control by allowing selective color enhancement or alteration. It allows a particular color to be selected and its hue changed over a range of approximately 22.5 degrees. The level of saturation can also be modified. This control allows very interesting "in camera" effects – similar to the secondary color correction normally reserved for post production special effects work – and is performed at the full bit depth.

Multi Matrix ON

Color Balance

Consistent scene-by-scene color balance is widely accepted as one of the key settings during production. There are a number of ways of setting this when working with an HDW-750 camcorder. By using Auto White (and Black) balance, the HDW-750 gives an accurate overall color balance. A Menu "Paint" functions allow color levels to be adjusted on-set according to creative needs. For this operation, the RM-B150 paint controller can be connected and paint parameters can be remotely adjusted.

3,200K

5,500K

8,024K

Auto Tracing White Balance

This function allows automatic tracing of white balance in situations where overall color temperature of the lighting fluctuates. This is particularly useful for continuous shooting that requires a subject to be followed from outside to inside (i.e. from daylight to tungsten lighting) with no opportunity to re-set the color balance of the camera.

Color Temperature Control

Digital Color Temperature Control makes it possible to dial in the required color temperature of the camera. In addition, this function can be used creatively. The overall color balance of the picture can be changed to make it 'warmer' or 'colder'. On the other hand, for Optical Color Temperature treatment, four types of color filters are equipped as standard. The BKDW-701 optional Servo Filter Drive Unit can also be attached to the camera, allowing CC filters to be remotely controlled.

Contrast Range

The HDW-750 can handle a very wide contrast range. A number of useful features are readily available to aid the operator to more precisely reproduce any given scene. Creative possibilities are offered by modifying “gamma settings”, offering a great advantage to achieving a desired ‘look’.

Selectable Gamma Curves

A vital factor in achieving an appropriate contrast range is the gamma curve. Gamma determines the transfer characteristic of a normal exposed scene. For Sony’s digital camcorders, gamma curves are readily adjustable on location. The overall (Master) gamma curve of the HDW-750 offers a very natural overall tonal reproduction because of the 10-bit A/D converter and ADSP (Advanced Digital Signal Processing) providing multiple gamma points. While the master gamma can be changed between two calculating patterns, several fixed master gamma curves are available per each pattern. These are all accessible and interchangeable via the set-up menus.

Gamma Calculating Pattern A
- No.1: SMPTE 240M (Initial Gain 4.0)
- No.2: ITU-R.BT709 (Initial Gain 4.5)
- No.3: BBC Gamma setting (Initial gain 5.0)

Gamma Calculating Pattern B
- No.1: Sensitivity is equivalent to 50 ISO
- No.2: Sensitivity is equivalent to 100 ISO
- No.3: Sensitivity is equivalent to 200 ISO

Normal

Red Channel Enhancement

RGB Gamma Balance

By changing the RGB gamma balance it is possible to change the color balance of the mid-tones without affecting black or white balance.

Variable Black Gamma Range

Variable Black Gamma Range function allows fine adjustment of tonal reproduction in the shadow area. This feature can help to bring out details from the dark parts of the picture without affecting mid-tones while maintaining absolute black level. The variable range is LOW, MID and HIGH.

Normal


Variable Black Gamma Range Function ON

Black Stretch

When Variable Black Gamma Range function is performed, it can be limited to picture luminance without affecting any other factors of the video signal. It is particularly helpful for dark scenes when the black has to stay black, but there is a requirement to pull out more detail.

Highlight Handling

Sony Advanced TruEye™ processing allows much improved highlight handling, with faithful color reproduction.

Adaptive Highlight Control (Auto Knee mode)

The Sony ADSP system intelligently monitors the brightness of all areas of the picture and automatically adapts the knee point/slope for optimum reproduction within given areas of the scene area. A typical example is the ability to shoot an interior scene which includes a sunlit exterior seen through a window.

Normal

Knee Saturation Function ON
(Adaptive Highlight Control)

Knee Saturation Function

The Sony TruEye processor is one of the most innovative features of Sony's ADSP development, makes it possible to reproduce very natural colors in a high contrast scene content. Without TruEye, when only knee correction is applied to the RGB channels, a color distortion in highlight areas will occur. A typical example is human skin tones which tend to take on a yellow tone in highlights. Knee Saturation processing automatically retains accurate color in highlight areas and maintains color saturation in picture areas compensated by the TruEye processor.

Conventional Video Equipment

TruEye

Definition – Picture Sharpness

The new HDW camcorder produces rich pictures having natural sharpness with fine details. Each RGB 2.2-million pixel CCD in combination with wideband digital recording on the 1080-line HD format ensures faithful image capture. The HDW-750 facilitates very precise control of picture texture and image enhancement.

Triple Skin Tone Detail control

Skin Tone Detail allows control of image enhancement within user specified color tones. The HDW-750 camcorder allows enhancement to be set independently for up to three distinct color/or hue ranges.

The conventional use of Skin Tone Detail correction is to reduce the image enhancement in areas of skin tone. With the HDW-750, correction is not restricted to areas of skin tones and can be set to apply to any three color areas. Image enhancement within those three areas can be increased or decreased relative to the overall image enhancement of a given scenes.

Normal


Ch 1 ON (Green)


Ch 2 ON (Blue)


Ch 3 ON (Red)

Level Dependent Detail

This function provides natural detail enhancement in extreme highlights by automatically limiting the amplitude of edge signals in high contrast area. Detail aliasing in these areas is virtually eliminated.

Normal

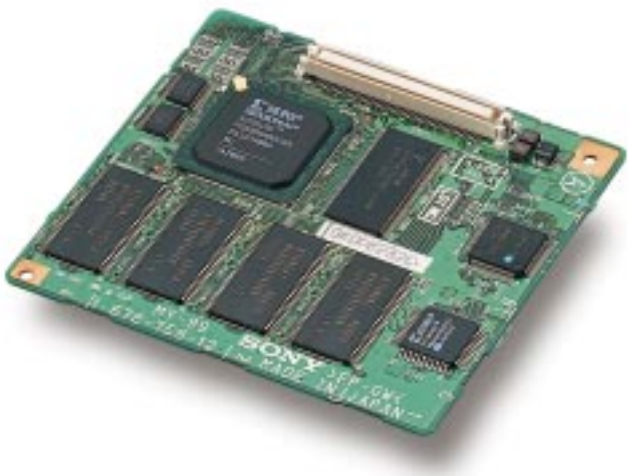

Level Dependent Detail Control ON

Accessories

A full range of accessories is available to take full advantage of the versatility and features of the HDW-750. Many accessories developed for HDW-700A and HDW-F900 are also applicable to this new HDCAM camcorder.

Picture Cache Board (Optional)

The optional HKDW-703 Picture Cache Board provides up to seven seconds (HDW-750)/eight seconds (HDW-750CE) of loop recording using solid state memory. Thus, when the REC start button is pressed, everything that happened up to seven seconds before that moment can be recorded to tape. Just imagine – if something unexpected happens in front of your camera, the operator will still have up to seven seconds of that event stored in RAM before being able to hit the record button. There is a choice of recording for 0, 1, 2, 3, 4, 5, 6 or 7 seconds (HDW-750)/0, 1, 2, 3, 4, 5, 6 or 8 seconds (HDW-750CE).



HD-SDI Camera Adapter (Optional)

The HDCA-901 Camera Adapter provides an additional two HD-SDI outputs and also enables access to all four audio tracks provided by the HDCAM format. Tracks 1 and 2 are accessed via the AUDIO IN Ch-1/Ch-2 connectors on the camcorder, and tracks 3 and 4 are accessed via the AUDIO IN Ch-3/Ch-4 connectors on the HDCA-901. A 5-pin stereo XLR connector and a headphones output connector (stereo phone jack) are also incorporated. The HDCA-901 can be used to select the monitoring signal to be either from Ch-1/Ch-2 connectors on the HDW-750 or the Ch-3/Ch-4 connectors on the HDCA-901.

Tele-File™ System

The Sony Tele-File system stores and recalls various types of production data, such as shot data and shot marks, onto and from an optional cassette label with a built-in memory IC. The camcorder is equipped as standard with a Tele-File reader/writer module, allowing this information to be managed electronically. Use of the Tele-File system can significantly raise efficiency in the subsequent editing process and management of archives.

HDW-750 Menu

HDW-2000 Series time code list

HDW-2000 Series VTR

Down Converter Board (Optional)

The optional Down Converter Board HKDW-702 enables Standard Definition output with four channel audio embedded. SD-SDI or analog composite can be selected via camcorder's set up menu.

Color Viewfinder (Optional)

Two types of LCD-based color viewfinders are available, the BVF-VC10W 1.35-inch type SD viewfinder and the 6-inch type HDVF-C750W HD viewfinder.

*The BVF-VC10W requires an optional down converter board HKDW-702.
*The liquid crystal display fitted to this unit is manufactured with high precision technology, giving a functioning pixel ratio of at least 99.99%. Thus a very small proportion of pixels (at most 0.01%) may be "stuck", constantly on or constantly off. In addition, over a long period of use, because of the physical characteristics of the liquid crystal display, such "stuck" pixels may appear spontaneously. These problems have been kept to absolute minimum, but are an unavoidable characteristic of liquid crystal technology.

Optional Accessories

Sony VCT-14,
Tripod Adapter

Sony BVM-D9H5U,
Color Video Monitor

Sony VF-508,
Monitor ENG kit for Sony 9-type monitors

Sony Memory Stick,
MSA-8A/16A/32A/64A

Sony AC-DN2B,
AC Adapter

Sony BP-L60A/L90A,
Lithium-ion Battery

Sony BP-M50/M100,
Ni-MH Battery

Sony BC-L120,
Battery Charger

Sony BC-M50,
Battery Charger

Sony BKDW-701,
Servo Filter Unit

Sony BKW-401,
Viewfinder Rotation Bracket

Sony RM-B150,
Remote Control Unit for HDW-750

Sony WRR-855A/855B,
Wireless Microphone Receiver

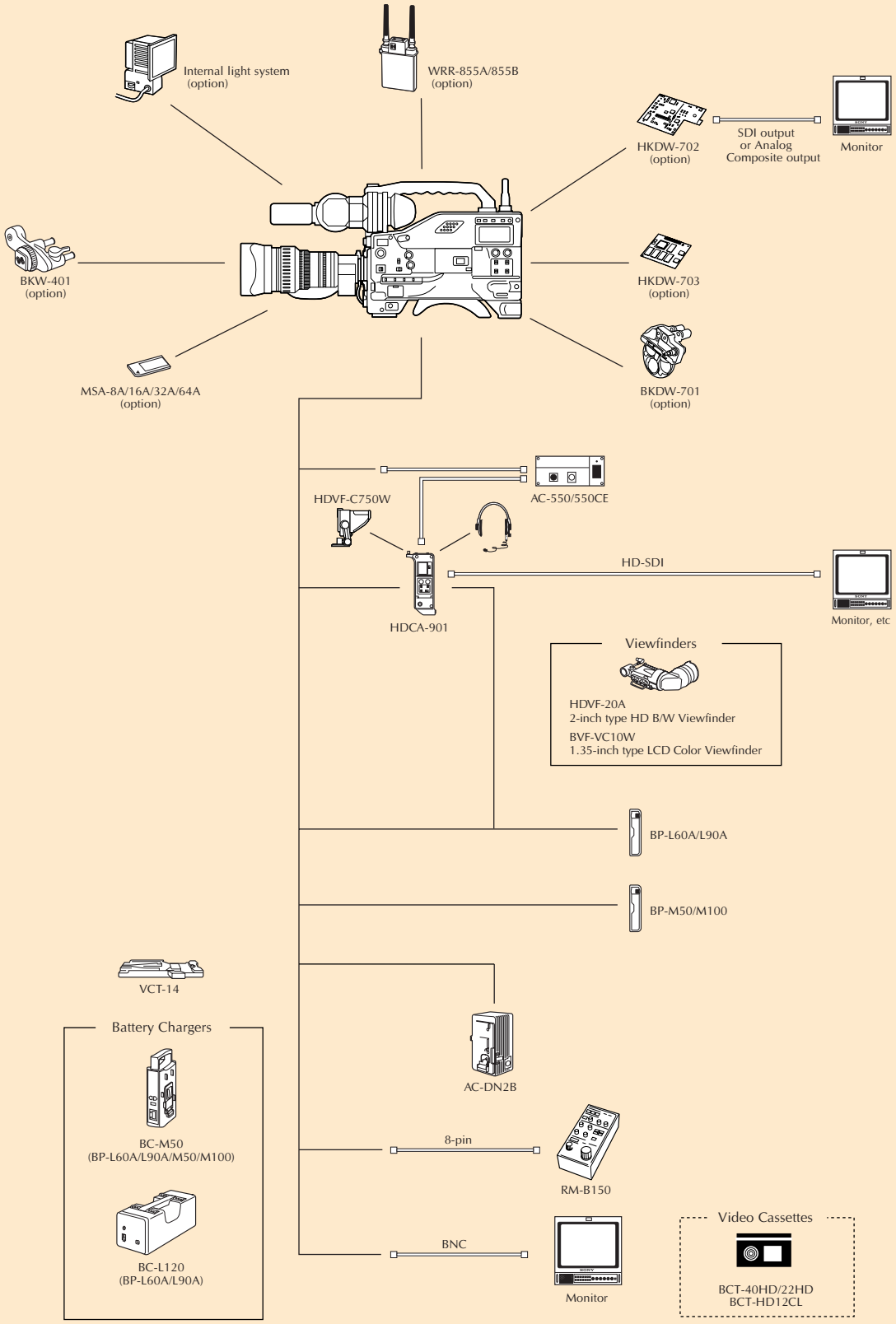
Sony WRR-862A/862B,
Dual Diversity Microphone Receiver
(Adapter required)

BCT-40HD/22HD,
HDCAM Video Cassettes

CCXA-53,
Audio Cable

1-547-341-12, Fog-proof filter
A-8262-537-A, Viewfinder Eye-piece (High magnification)
A-8262-538-A, Viewfinder Eye-piece (Low magnification)
A-8267-737-A, Viewfinder Eye-piece (Standard magnification with special compensation for aberrations)
A-8314-798-A, Viewfinder Eye-piece (High performance, x3)
X-3608-271-1, Standard viewfinder lens
A-8278-057-A, Mounting bracket for WRR-862A/862B

System Configuration



HDW-750/750CE Specifications

General		
Mass		Approx. 5.4 kg (11 lb. 15 oz) with VF, Mic, BCT-40HD, and BP-L60A Battery
Power requirement		DC 12 V (+5.0 V/-1.0 V)
Power consumption		34 W (With 12 V power supply, REC mode, without HDVF-20A)
Operating temperature		0 °C to +40 °C (+32 °F to +104 °F)
Storage temperature		-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity		25% to 80% (Relative humidity)
Continuous operating time		Approx. 110 min (With BP-L60A)
Inputs/outputs		
Genlock video input		BNC, 1.0 Vp-p 75 Ω
Time code input		BNC, 0.5 V to 18 Vp-p, 10 kΩ
Audio CH1/CH2 input		XLR-3-pin type (Female), -60 dBu/+4dBu selectable, high impedance, balanced
Mic input (Stereo)		XLR-5-pin type (Female), -60 dBu
HD-SDI output		BNC (x1), 0.8 Vp-p, 75 Ω, unbalanced
Audio output		XLR-5-pin type (Male), 0 dBm
Time code output		BNC, 1.0 Vp-p, 75 Ω
TEST OUT		BNC, 1.0 Vp-p, 75 Ω
Earphone		Mini-jack (x2), 8 Ω, -∞ to –18 dBs variable
DC input		XLR-4-pin type (Male), 11 to 17 V DC
DC output		11 to 17 V DC, Max. 100 mA
Lens		12-pin
Remote		8-pin
VTR section		
Recording format		HDCAM
Tape speed	HDW-750	Approx. 96.7 mm/s
	HDW-750CE	Approx. 80.6 mm/s
Playback/Recording time	HDW-750	Max. 40 min with BCT-40HD
	HDW-750CE	Max. 48 min with BCT-40HD
Fast forward/rewind time		Approx. 5 min with BCT-40HD
Recommended tape		Sony BCT-40HD/22HD
Sampling frequency		Y: 74.25 MHz, PB/PR: 37.125 MHz
Quantization		10 bit/sample of input-output signals (8 bit sample for internal compression process)
Error correction		Reed-Solomon code
Error concealment		Adaptive three dimensional
Audio performance (Playback with Standard HDW-500/HDW-F500/HDW-M2000/HDW-M2100)		
Frequency response		20 Hz to 20 kHz, +0.5 dB/-1.0 dB
Dynamic range		More than 85 dB (Emphasis ON)
Distortion		0.08% Max.
Cross talk		-70 dB
Wow & flutter		Below measurable limit
Camera section (Performance)		
Pickup device		3-chip 2/3-inch type FIT type CCD
Picture elements		2,200,000 pixels
Optical system		F1.4 prism system
Sensitivity		f10.0 at 2000 lux
Minimum illumination		0.3 lux (+42 dB gain up)
S/N ratio		54 dB (typical)
Modulation depth		45 +/-5% (at 800 TVL/ph,27.5MHz)
Horizonal Resolution		1000 TVL
Registration		0.02% (All zones, without lens)
Smear Level		-135 dB
Camera section (Operational)		
Lens mount		Special bayonet mount
Built-in filters		ND 1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND CC A: CROSS, B: 3200 K, C: 4300 K, D: 6300 K
Shutter speed	HDW-750	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 (s)
	HDW-750CE	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 (s)
Clear scan	HDW-750	30.0 to 4300 Hz
	HDW-750CE	25.0 to 4700 Hz
Viewfinder		
CRT		2.0-inch type monochrome
Controls		Brightness control, Contrast control, Peaking control, Tally switch, Zebra Pattern switch, Display/Aspect switch
Horizontal resolution		500 TV Line (At center)
Microphone		Ultra-directional (Detachable)
Supplied accessories		
		HDVF-20A, HD Electric Viewfinder (1) Stereo Microphone, Super cardioid directional, external power supply type (1) Shoulder strap (1) Operation manual (1)
Optional accessories		
		HKDW-702, Down Converter Board HKDW-703, Picture Cache Board VCT-14, Tripod Adapter HDCA-901, HD-SDI adapter HDVF-C750W, HD LCD Color Viewfinder BP-L60A/L90A, Lithium-ion battery BP-M50/M100, Ni-MH battery BC-L120, Battery charger BC-M50, Battery charger AC-550/550CE, AC adapter BCT-40HD/22HD, HDCAM tape cassette BKDW-701, Servo filter unit BKW-401, Viewfinder rotation bracket RM-B150, Remote control unit C-74, Microphone

SONY

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