SONY®

PAL

Digital Video Camera

# DXC-D30P

Digital Video Camera

# DXC-D30WSP

DSP WS

Power HAD

Betacam SP Camcorder

# PVW-D30P

Digital Camcorder

# DSR-130P

DVCAM™

DXC-D30P

DXC-D30WSP

PVW-D30P

DSR-130P

The Sony DXC-D30P is an epoch-making digital video camera designed as the top-end model for professionals. Incorporating the latest Sony DSP (Digital Signal Processing) technology based on the TruEye™ process, the DXC-D30P realizes faithful colour reproduction never achieved with conventional analogue or digital cameras. Drastic smear reduction and high sensitivity are ensured by the Power HAD™ CCD, providing more shooting opportunities while maintaining high picture quality.

The new DXC-D30WSP is the latest addition to the Sony professional digital camera line-up. This model incorporates three Power HAD WS™ CCDs which are originally designed for a 16:9 aspect ratio, with a switching function to 4:3. In 16:9, the picture quality of the DXC-D30WSP is sufficiently high for a variety of professional applications.

Both the DXC-D30P and the DXC-D30WSP can be used within existing analogue acquisition systems as well as in a new Sony production system based on the DVCAM digital recording format. These cameras dock directly not only to existing camera adaptors and analogue on-board VTRs via an analogue interface, but also to the newly developed Sony DSR-1P DVCAM Digital Recorder via a component digital interface.

The DXC-D30P and DXC-D30WSP also offer superior operational convenience. Responding to increasing demands from professionals, they provide a variety of automatic functions with high performance and functionality. With all these features packed in a compact camera body, the DXC-D30P and DXC-D30WSP are ideal for acquisition in a wide spectrum of professional applications.

### EZ Focus Function

EZ Focus is a function to assist focusing without stopping down the lens. By just pushing the EZ Focus button, the iris is automatically opened so that the depth of field is reduced to make critical focusing easier. At the same time, the electronic shutter is automatically set to obtain the correct light level. The EZ Focus function is overridden while recording.

### New EZ Mode Function

To instantly set a camera to a standard or auto position, simply press the EZ Mode button. The DXC-D30P/ D30WSP has two alternative EZ Modes - STANDARD or CUSTOM. When set to CUSTOM EZ Mode, the camera setting is changed in accordance with the selected setup file.

### Auto Tracing White Balance (ATW)

In the DXC-D30P/D30WSP, tracing of the white area in Auto Tracing White Balance (ATW) is sufficiently fast for professional demands. In addition, the accuracy of the white balance adjustment is enhanced.

## Enhanced Functions for Picture Creation

### Camera Setup Files

The DXC-D30P/D30WSP is equipped with a convenient VF (Viewfinder) Menu System - a control menu with superimposed characters on the VF screen. Depending on user requirements, menu contents can be selected with the SETUP (STD/FILE) selector switch.

**STD position (Standard VF Menu System)**

When the SETUP switch is set to the STD position, camera parameters can be set or switch functions can be defined with the VF Menu System, in the same way as with conventional Sony cameras.


**FILE position (VF Menu System for File Management)**

When the SETUP switch is set to the FILE position, a total of eight setup files can be used with the dedicated VF Menu System. These are five Factory Preset and three User Files.

**Factory Preset Files**

Five Factory Preset Files are set by Sony to accommodate the five most common lighting situations, such as STANDARD, HIGH SATURATION and FLORESCENT.

**User Files**

Three User Files allow the operator to set camera parameters which match their own particular shooting situations. User Files can be easily created by modifying Factory Preset Files.

### Scene Files

With the optional Sony RCP-TX7 Remote Control Panel with powerful remote capabilities, 16 scene files can be created and stored. Almost all the parameters for camera operation and camera set-up can be stored into a scene file, and the most suitable file for each shooting situation can be instantly recalled using the menu button on the RCP-TX7.

### Setup Data Management with DVCAM Cassette

The DXC-D30P/D30WSP combined with the Sony DSR-1P has the following camera data management features:

**SetupNavi™ — Camera Setup File Storage**

The DXC-D30P/D30WSP combined with the DSR-1P has a SetupNavi function to store the User Files or Factory Preset Files of the DXC-D30P/D30WSP directly onto the VAUX (Video Auxiliary) data territory of DVCAM cassette tapes. This data can be stored on or recalled from tape via the VF Menu System.

Using DVCAM cassettes as the medium, the setup data can be transferred to other DXC-D30P/D30WSP cameras.

**SetupLog™ — Automatic Recording of Camera Setting Data**

Even without using the file system, the information of each DXC-D30P/D30WSP setting parameter for every shot is automatically recorded by the DSR-1P on the VAUX territory in each DVACM cassette tape video track. This function is called SetupLog. It is useful not only for the camera operator if there is a need to re-take the same shot, but also for checking operating conditions during a particular shoot.

### File Management from Personal Computers

The REMOTE connector (10-pin) of the DXC-D30P/ D30WSP is designed in accordance with the RS-232C standard. This allows setup file data to be managed from a personal computer with proper Sony protocol.

## Convenient Features

### Remote Control of Hyper Gain

Hyper Gain is a convenient function for shooting in extremely low-light conditions without using a lighting system. It instantly increases the gain-up value to +36dB in total, combining the electronic gain-up of +30dB and the Dual Pixel Readout effects (equivalent to +6dB gain-up). Hyper Gain can be assigned to be the highest gain position (H) of the GAIN selector switch (H/M/L). Consequently, Hyper Gain can be switched on or off remotely from the Sony RM-M7G, CCU-M5P, CCU-M7P or the CCU-TX7P system.

### Adjustable Black Stretch and Compress

The contrast in the black area of the image can be adjusted by the Black Stretch/ Compress control function. Black Stretch emphasizes the contrast in the dark areas, while Black Compress enhances or deepens the darkness.

### Dual Zebra

The DXC-D30P/D30WSP has two types of zebra patterns - 'ZEBRA 1' and 'ZEBRA 2'. 'ZEBRA 1' can be set within a range of 70 IRE to 90 IRE by 1 IRE. 'ZEBRA 2' provides a zebra pattern in an area with more than 100% video level. Dual zebra display is also available, where both or either ZEBRA1 and ZEBRA2 are displayed.

### Monitor Out

The DXC-D30P/D30WSP is equipped with a MONITOR OUT connector (BNC). Via this connector, the user can check the shooting conditions by displaying a colour picture with characters superimposed on a connected external monitor. This is in addition to the image displayed on the unit's viewfinder.

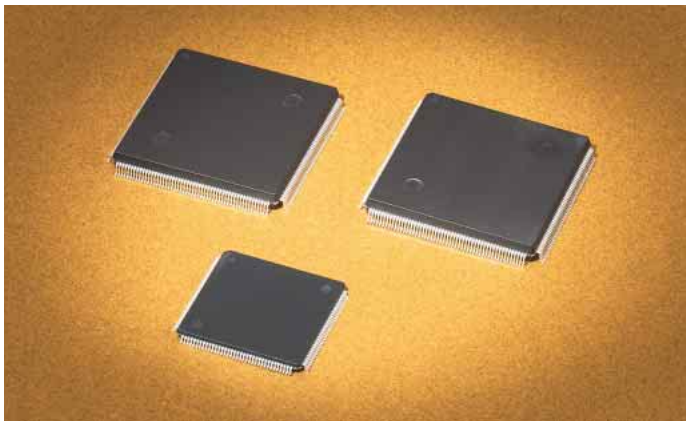
### Others

- Programmable Gain
- Clear Scan (CLS)
- Date & Time Superimposition
- Built-in 1kHz Audio Reference
- Adjustable Shoulder Pad
- EBU75, EBU100, SPLIT, SNG Colour Bars

# DXC-D30P/D30WSP Camera Features

DXC-D30P
DXC-D30WSP
PVW-D30P
DSR-130P

*The DXC-D30P is a digital signal processing camera, and its sister model the DXC-D30WSP is a wide-screen camera for a 16:9 aspect ratio with a switching capability to also capture the images in a 4:3 aspect ratio. Both models have the following features.*



## Sony State-of-the-art Digital Camera Signal Processing Technology

The DXC-D30P/D30WSP incorporates state-of-the-art digital camera processing technology which is designed to fully exploit the benefits of DSP (Digital Signal Processing).

### TruEye™ Process

The TruEye digital signal process employed in the DXC-D30P/D30WSP is a true innovation in camera signal processing, made possible for the first time by digital signal technology.

In conventional RGB analogue or digital processing, some non-linear signal processing occurs after gamma correction, such as white clip and knee correction, and can result in hue factor distortion - a phenomenon that is particularly obvious in extreme high-light conditions. This significant problem is totally eliminated by the TruEye process which manages video signal data according to three factors - brightness, hue and saturation - so that colour in even a wide dynamic range can be reproduced as faithfully as by the human eye without hue factor distortion.

Based on the TruEye system, the DXC-D30P/D30WSP further offers a unique feature called DynaLatitude™ which adaptively manages the contrast of each pixel according to a histogram of video signal level distribution. DynaLatitude brings a new dimension to technologies such as Dynamic Contrast Control (DCC). The DynaLatitude feature optimizes video level distribution based on video signal histograms in order to utilize the limited dynamic range of the video signal standard.

### Real Time Self Diagnostics

As well as being designed for high reliability, the DXC-D30P/D30WSP employs a powerful self-diagnostic system which informs the operator, in real time, of the connecting conditions of its LSI (Large Scale Integration) circuits and printed circuit boards, and electrical connection conditions between the camera and a VTR. Even if the operator is not familiar with digital circuitry, the DXC-D30P/D30WSP keeps them accurately informed.

### High Picture Quality

The horizontal resolution and the signal-to-noise ratio of the DXC-D30P/D30WSP are the best available in the industry. The Modulation Depth of the DXC-D30 is 55% (typical) at 5MHz and that of the DXC-D30WS is 70% (typical) in the 16:9 mode. The newly developed digital circuits drastically reduce the aliasing phenomenon which is found even in conventional digital cameras, while maintaining high resolution.

### High Stability and Uniformity

Having DSP technology, the DXC-D30P/D30WSP assures a high degree of video output stability. A uniform picture tone is stringently maintained among multiple DXC-D30P/D30WSP cameras.

### Detail Corrections by DSP

#### Skin Detail with Auto Detection of Active Area

The Skin Detail function in the DXC-D30P/D30WSP gives the subject a pleasing complexion with a softer image in the facial area, while maintaining the sharpness of other areas. The designated active area of Skin Detail can be set with the digital circuits by simply adjusting the Area Detect Cursor on the viewfinder screen and SKIN SET button on the camera's side panel. The colour range of the Skin Detail active area and Skin Detail level can be also set via the Viewfinder Menu System. The range of colour detection for detail correction is 360 degrees.

#### Black Halo-Free, Clean Detail

The DXC-D30P/D30WSP provides edges with a natural line and appropriate thickness in areas with extreme dark-to-light or light-to-dark transitions, by digitally optimizing the level of detail signal to each of the transition parts, not by just clipping the detail signal. Consequently, the "Black Halo" effect which is seen as thick black edges surrounding an extremely bright object, as well as a stepping diagonal edge, have been dramatically reduced.

#### Red Vertical Detail Correction

The Vertical Detail Correction signal, which is digitally created from both the Green and Red signals, assures image sharpness when shooting highly saturated subjects or subjects bathed in red light.

#### Horizontal Detail Frequency Control

The Horizontal Detail Frequency can be controlled via the VF Menu System according to the user's preference.

## Power HAD CCD (DXC-D30P only)

The DXC-D30P incorporates three Power HAD CCD sensors. These sensors feature a minimal smear level equivalent to conventional FIT CCDs, which addresses even the stringent demands of high-end production. The total performance of the Power HAD CCD sensor approaches that of the standard FIT.

### Low Smear Level

The Vertical Smear Level of the DXC-D30P is -125dB which is the same level as conventional FIT sensors. This feature gives the operator more freedom to shoot subjects in high-light conditions.

### High Sensitivity

The Power HAD sensor in the DXC-D30P achieves a high sensitivity of F11.0 (at 2000 lx, 3200K) and minimum illumination of 0.5 lx. This feature affords a greater opportunity to shoot under extremely low-light conditions.

### High S/N Ratio

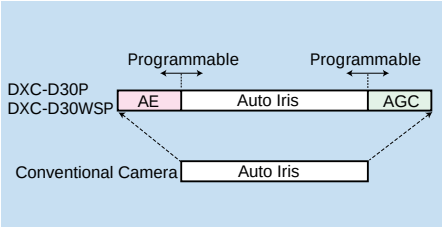
The improved CCD process combined with the camera's new digital circuits means CCD noise is reduced. The signal-to-noise ratio is improved to 61dB, the top-level specification in the industry.

## Enhanced Ease of Operation

Responding to increasing demands for more automatic functions in a professional camera, the DXC-D30P/D30WSP boasts several new and improved functions that are sure to please the most demanding camera person.

### Total Level Control System (TLCS)

The DXC-D30P/D30WSP offers proper picture exposure even if incoming light exceeds the range of automatic iris control (either above or below), by using iris control in combination with Auto Gain Control (AGC) and CCD AE (Auto Exposure, the application of variable shutter speeds). This function is called TLCS. While still maintaining low-noise characteristics, TLCS affords ease of operation for this high-end professional camera.



# System Versatility

## Dockable to a Variety of VTRs

The DXC-D30P/D30WSP is equipped with two types of connectors - the new 'Pro 76-pin Digital' connector and the conventional 'Pro 50-pin' connector. The Pro 76-pin Digital connector supplies 4:2:2 10-bit component digital output, which allows expandability for unlimited applications and future digital interfacing with a variety of devices. Via the Pro 76-pin Digital connector, the DSR-1P Digital On-board Recorder can be directly docked to the DXC-D30P/D30WSP. Through the Pro 50-pin connector, a variety of dockable analogue video recorders can be attached to the DXC-D30P/D30WSP.


## Supports Current CA and CCU

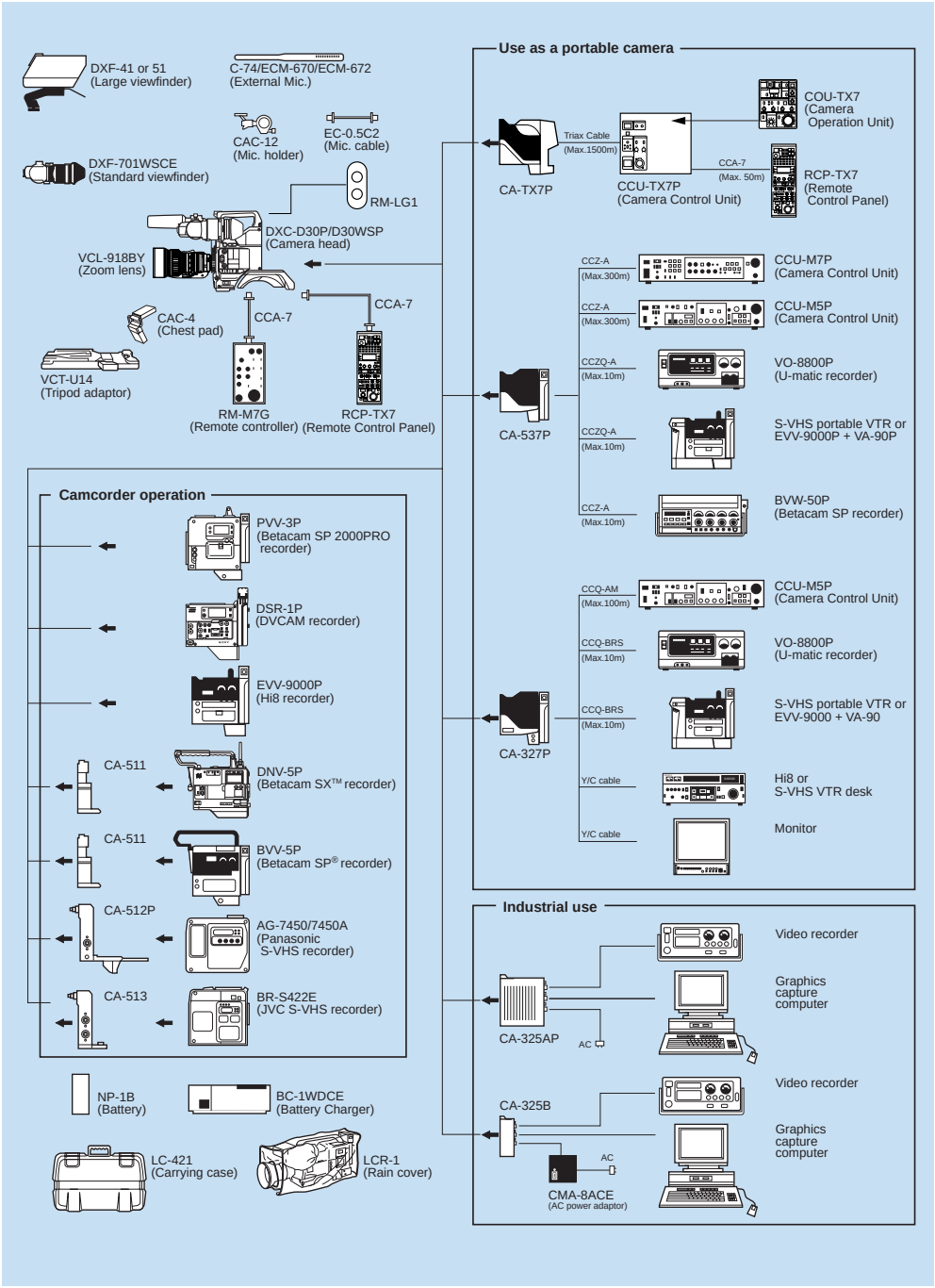
Via the Pro 50-pin connector, Sony CA-537P/ 327P/ 325AP/ 325B Camera Adaptors can also be used just as with the current camera system. Via the Pro 76-pin Digital connector, the CA-TX7P can be connected. Sony RM-M7G, CCU-M5P, CCU-M7P and CCU-TX7P can also be used for remote control operation.

## With Personal Computers

The 10-pin connector (REMOTE Connector) for the RM-M7G and RCP-TX7 is designed in accordance with the RS-232C standard. This allows the DXC-D30P/D30WSP to be remotely controlled from an external personal computer with the proper Sony protocol.

## VCL-918BY Inner Focus Zoom Lens

To meet the enhanced performance of the DXC-D30P/D30WSP, the Sony VCL-918BY x18 zoom lens is newly incorporated as their standard lens. Its inner focus adjustment method and excellent performance will further expand acquisition applications of the cameras.



# DXC-D30WSP Unique Features



*In addition to the features described in the previous section, the DXC-D30WSP has the following features.*

## Power HAD WS™ CCD

The DXC-D30WSP is equipped with three newly developed 2/3-inch Power HAD WS™ CCDs with a high packing density of 620,000 pixels (total)/ 570,000 pixels (effective). As this type of CCD is originally designed for a 16:9 aspect ratio, with a switching capability to 4:3, high quality images can be obtained in 16:9 mode without picture loss. When switched to 4:3, electrical charges from one part of the CCD are electrically extracted and used. High sensitivity of F11 (at 2000 lx, 3200K), a remarkable signa-to-noise ratio of 61dB and a virtually invisible smear level of -120dB are achieved.

## 16:9 and 4:3 Switchable

By adopting new wide-aspect CCDs and digital signal processing, the DXC-D30WSP can operate in both widescreen and conventional 4:3 mode without the need to connect an external coverter unit.

## 16:9 ID Pulse

When shooting 16:9 images, the DXC-D30WSP automatically adds a wide-aspect ID pulse signal (which indicates that the picture is shot in 16:9 aspect ratio) to the video output signal from the camera VBS OUT, MONITOR OUT and 50-pin/76-pin interface. The 16:9 aspect ratio picture shot by the DXC-D30WSP can be recorded and played back with Sony DSR-1P/30P/60P/80P/85P DVCAM Players/Recorders, the SVO-5800P V-VHS Recorder, SVP-5600P S-VHS Player, and all types of the UVW/PVW Players/Recorders.

## Selectable Preset White Balance

The colour temperature of the preset white balance can be switched to conventional 3200K or newly added 3000K. This enables the DXC-D30WSP to realize natural colour reproduction even under lighting conditions with low colour temperature.

## DXF-701WSCE

The Sony DXF-701WSCE is a 1.5-inch black and white viewfinder newly developed for the DXC-D30WSP, with the following features. The DXF-701WSCE can also be used with the DXC-D30P in the 4:3 mode.


### Aspect Ratio Adjustment

With the DXF-701WSCE, the viewfinder scanning size can be switched to AUTO or FULL, using the Viewfinder Control Menu. In AUTO mode, the viewfinder scanning size is automatically changed in accordance with the camera aspect ratio (4:3 or 16:9), as shown in (A) and (B). In FULL mode, the image is displayed using the full size of the screen. This means that the 16:9 image in FULL mode is vertically enlarged as shown in (C), while the 4:3 image in FULL mode is the same as in AUTO mode as shown in (A). As a result, the shape of the 16:9 picture captured in FULL mode is not its true shape, but the use of the whole screen in FULL mode causes less eye strain.

AUTO/FULL mode in 4:3 Figure (A)

AUTO mode in 16:9 Figure (B)

FULL mode in 16:9 Figure (C)

### V/H Detail Control

Both vertical and horizontal detail levels can be variably adjusted by the PEAKING potentiometer on the viewfinder body, while monitoring the ratio of both detail levels.

### Two Red REC Tally Lamps

In addition to the current REC tally above the viewfinder screen, another REC tally is located below the screen to prevent overlooking of REC tally indication. This second tally lamp is ON/OFF switchable using the ADVANCED MENU.


### TAKE Tally Lamp

The DXF-701WSCE also has a TAKE tally lamp for use with the ClipLink system. In addtion, this TAKE tally can be used as a second tally lamp for CCU operations.

### Reliable and Ergonomic Design

A diecast aluminum body makes the DXF-701WSCE highly durable. The viewfinder's position can be adjusted in a broad horizontal plane according to the operator's preference. The large diameter of the eye cup not only reduces eye strain but also simplifies focusing. A wide range of diopter adjustments (-3 to 0) is provided to compensate for differences in eyesight.

# PVW-D30P Betacam SP Camcorder

DXC-D30P
DXC-D30WSP
PVW-D30P
DSR-130P

## High Quality Betacam SP Camcorder

The Sony PVW-D30P is a Betacam SP PRO2000 Camcorder consisting of the DXC-D30P and the PVV-3P Betacam SP Recorder. The high quality picture of the DXC-D30P can be directly recorded onto the Betacam SP format - one of the best analogue recording formats currently available in the professional field. Status information and data from the PVV-3P, such as time code, recording audio level, remaining battery power, and remaining tape time, can be superimposed on the viewfinder.

*(Note: These features and functions are also available with the DXC-D30WSP combined with the PVV-3P.)*


# DSR-130P DVCAM Camcorder Operation

DXC-D30P
DXC-D30WSP
PVW-D30P
DSR-130P

## Acquisition Tool for DVCAM System

The Sony DSR-130P Digital Camcorder - the combination of the DXC-D30P and the DSR-1P Digital Recorder - is an acquisition tool based on the DVCAM recording format. The following are the basic features of the DSR-130P.

*(Note: The following features and functions are also available with the DXC-D30WSP combined with the DSR-1P.)*

### DVCAM Recording Format

The Sony DVCAM recording format is designed for professional use. While this format maintains playback compatibility with the consumer DV recording format, higher picture quality is achieved by the wider track pitch.

### Equivalent to One-piece Camcorder

The DXC-D30P and the DSR-1P have been carefully designed so that the DSR-130P can operate just like a one-piece camcorder. Recording status and warning messages from the DSR-1P can be superimposed on the viewfinder of the DXC-D30P. The body of the DSR-1P and the DXC-D30P are made of magnesium, which ensures the DSR-130P is a lightweight yet durable camcorder. To record with the DSR-1P, both DVCAM Mini Cassette tapes (PDVM -40ME/ 32ME/ 22ME/ 12ME or PDVM-40N/ 32N) and DVCAM Standard Cassette tapes (PDV-184ME/ 124ME/ 94ME/ 64ME or PDV-184N/124N/64N) can be used without any adaptors. The maximum recording times of PDVM and PDV tapes are 40 minutes and 184 minutes respectively.


## Time Code Superimposed during Playback

For operational convenience while shooting, the time code is superimposed on the viewfinder screen or MONITOR OUT screen, even during playback.

## CH-1 Audio Level Control

The CH-1 audio level can be adjusted with the level control located on the front panel of the DXC-D30P while recording with the DSR-1P.

## Edit Search

The DSR-1P incorporates an Edit Search function. Its control button is located on the side panel of the DXC-D30P to afford easy access while shooting.

## Freeze Mix Function

With conventional cameras, when a camera operator needs to shoot a subject in the same framework as that of a previously recorded subject, it is typically very difficult to perfectly place the subject in the same position as before. With the DSR-130P, a picture previously recorded on DVCAM tape can be superimposed on the viewfinder screen, so that the camera operator can easily frame the subject just as in the previous shot.

# ClipLink System

The ClipLink system is a comprehensive shooting information and image management system required for the total digital production process, from acquisition to editing. The ClipLink system in combination with new Sony digital video products such as the DSR-130P Digital Camcorder, Digital VTRs (DSR-85P/80P/60P), and the ES-7 EditStation™ System enhances productivity and operating efficiency throughout the entire video production process.

## ClipLink Data

The DSR-130P automatically generates two types of useful information while shooting, which drastically reduce the work traditionally required during video tape production. One is Index Picture which is a digitally miniaturized picture of the video image of the "in" point of each shot - MARK IN point*. Index Pictures are recorded on DVCAM tape. The other is shot information needed for the editing process, such as the reel number, scene number, take number, time code of MARK IN/ MARK OUT points*, and OK/NG status. This reference data is stored in the cassette memory of the DVCAM Cassette tapes.

The combination of these two types of information is called ClipLink data. The ClipLink data can be quickly uploaded to the EditStation System from the DVCAM Digital VTRs, so that usable shots can be selected using only visual ClipLink information displayed on the monitor of the EditStation. The ClipLink system eliminates the work of loading all the shots on tape to the EditStation System.

## TAKE Button

The DXC-D30P has a TAKE button on the front of the camera. Depending on the situation, the user can assign it to operate either in MARK or CUE mode using the VF Menu System.

In MARK mode, it triggers to record the time code of MARK IN or MARK OUT points* as well as an Index Picture of the MARK IN point during shooting everytime it is pushed. The MARK button is useful, for example, if the program origination is based on a certain sequence.
In CUE mode, the moment when the recording is started or ended is regarded as the MARK IN or MARK OUT point. In addition to this, the time code of the CUE point** is recorded by pushing the CUE button. Logging of the CUE point is useful for shooting events where the shooting sequence is undetermined or very changeable.

* MARK IN/ MARK OUT point:
Starting/ Ending point of a duration to be used for editing. In the ClipLink System, the Index Picture of the MARK IN point is automatically recorded as well.

**CUE point:
The point where an operator wants to review work at a later time. The CUE point does not accompany an Index Picture.

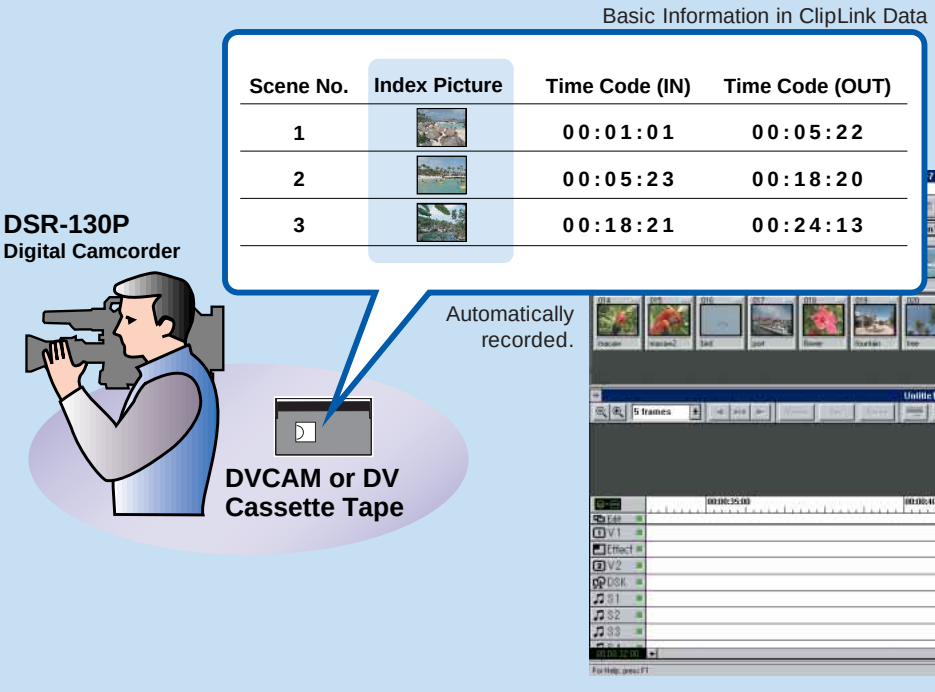
## NG button

An NG (No Good) status for each take can be input by pushing the NG button on the DXC-D30P during or after shooting. Unless the NG button is pushed, OK status is automatically input.

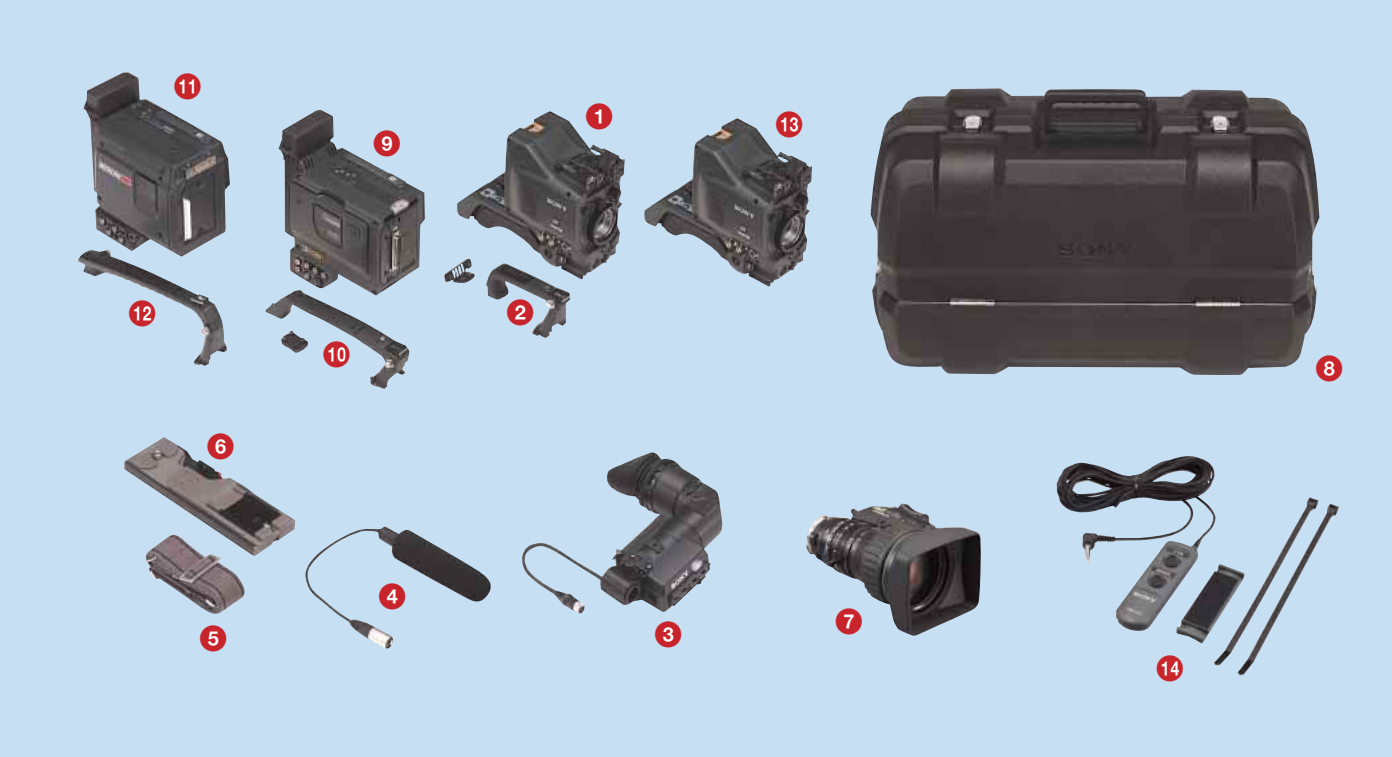
## RM-LG1

The Sony RM-LG1 is a new Remote Control Unit specially designed for the remote control of ClipLink and VTR REC operation. It has two switches, which can be assigned by the operator from four choices: VTR, MARK, CUE or NG.


## ClipLink



# DXC-D30P/DXC-D30WSP/PVW-D30P/DSR-130P
## Product Configurations




### DXC-D30P Series

| | | DXC-D30PF1 | DXC-D30PK1 | DXC-D30PL1 | DXC-D30PH |
|---|---|---|---|---|---|
| 1 | DXC-D30P Camera Head | Yes | Yes | Yes | Yes |
| 2 | Camera Handle* | Yes | Yes | Yes | Yes |
| 3 | DXF-701WSCE Viewfinder | Yes | Yes | Yes | Option |
| 4 | External Microphone* | Yes | Yes | Yes | Option |
| 6 | VCT-U14 Tripod Adaptor | Yes | Yes | Yes | Option |
| 7 | VCL-918BY Zoom Lens | Yes | Yes | Option | Option |
| 8 | LC-421 Carrying Case | Yes | Option | Option | Option |
| 14 | RM-LG1 Logger Unit | Yes | Yes | Yes | Option |

### DXC-D30WSP Series

| | | DXC-D30WSPL |
|---|---|---|
| 13 | DXC-D30WSP Camera Head | Yes |
| 2 | Camera Handle* | Yes |
| 3 | DXF-701WSCE Viewfinder | Yes |
| 4 | External Microphone* | Yes |
| 14 | RM-LG1 Logger Unit | Yes |
| 6 | VCT-U14 Tripod Adaptor | Yes |

### PVW-D30P Series

| | | PVW-D30PF1 | PVW-D30PK1 | PVW-D30PL1 |
|---|---|---|---|---|
| 1 | DXC-D30P Camera Head | Yes | Yes | Yes |
| 11 | PVV-3P | Yes | Yes | Yes |
| 12 | Handle for PVW-D30P* | Yes | Yes | Yes |
| 3 | DXF-701WSCE Viewfinder | Yes | Yes | Yes |
| 4 | External Microphone* | Yes | Yes | Yes |
| 5 | Shoulder Strap* | Yes | Yes | Yes |
| 6 | VCT-U14 Tripod Adaptor | Yes | Yes | Yes |
| 7 | VCL-918BY Zoom Lens | Yes | Yes | Option |
| 8 | LC-421 Carrying Case | Yes | Option | Option |
| 14 | RM-LG1 Logger Unit | Yes | Yes | Yes |

### DSR-130P Series

| | | DSR-130PF1 | DSR-130PK1 | DSR-130PL1 |
|---|---|---|---|---|
| 1 | DXC-D30P Camera Head | Yes | Yes | Yes |
| 9 | DSR-1P | Yes | Yes | Yes |
| 10 | Handle for DSR-130P* | Yes | Yes | Yes |
| 3 | DXF-701WSCE Viewfinder | Yes | Yes | Yes |
| 4 | External Microphone* | Yes | Yes | Yes |
| 5 | Shoulder Strap* | Yes | Yes | Yes |
| 6 | VCT-U14 Tripod Adaptor | Yes | Yes | Yes |
| 7 | VCL-918BY Zoom Lens | Yes | Yes | Option |
| 8 | LC-421 Carrying Case | Yes | Option | Option |
| 14 | RM-LG1 Logger Unit | Yes | Yes | Yes |

*The microphone, shoulder strap and handles are available only as service parts.

# Optional Accessories

DSR-1P
DVCAM Digital Recorder

PVV-3P
Betacam SP 2000 PRO Recorder

VA-300P
Playback Adaptor for PVV-3

EVV-9000P
Hi8 Videocassette Recorder

VO-8800P
Portable SP U-matic Recorder

DNV-5P
Betacam SX Recorder

BVV-5P
Betacam SP Recorder

RM-LG1
Remote Control Unit

CCU-TX7P
Camera Control Unit

CA-TX7P
Camera Adaptor

RCP-TX7
Remote Control Panel for CCU-TX7

COU-TX7
Camera Control Unit for CCU-TX7

RM-M7G
Remote Control Unit

CCU-M5P
Camera Control Unit

CCU-M7P
Camera Control Unit

CA-537P
Camera Adaptor

CA-327P
Camera Adaptor
(Only models with serial No. above 40100 can be used)

CA-325AP
RGB Adaptor (AC operation)

CA-325B
RGB Adaptor (DC operation)

CA-511
Camera Adaptor (for BVV-5P and DNV-5P)

CA-512P
Camera Adaptor
(for AG-7450/7450A Panasonic S-VHS on-board recorder)

CA-513
Camera Adaptor
(for BR-422E JVC S-VHS on-board recorder)

NP-1B
NiCd Rechargeable Battery


BP-90A
NiCd Rechargeable Battery

DC-520
Battery Case to contain two NP batteries

DC-500
Battery Case for BP-90A

DC-210
Battery Case for BP-90A
(Waist belt type)

BC-1WDCE
Battery Charger for up to four NP-1B

BC-410CE
Battery Charger for four BP-90A's and four NP-1B's

BP-L60/L90
Rechargable Li-ion Battery Pack
(only with the DSR-1P, PVV-3P and EVV-9000P)

**BKW-L601**
Adaptor to attach BP-L60/L90 to dockable VTRs (DSR-1P, PVV-3P and EVV-9000P)

**BC-L100CE**
Battery Charger for BP-L60/L90

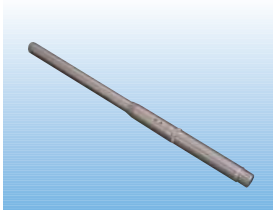
**DC-L1**
Battery Adaptor for charging NP-1B with BC-L100

**DC-L90**
Battery Adaptor for charging BP-90A with BC-L100

**CMA-8ACE**
AC Power Adaptor

**AC-550CE**
AC Power Adaptor

**ECM-672/670**
Electret Condenser Microphone



**C-74**
Condenser Microphone

**EC-0.5C2**
Microphone Cable

**CAC-12**
Microphone Holder

**WRT-810A**
UHF Wireless Microphone

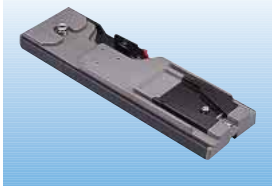
**WRT-820A**
UHF Synthesized Transmitter

**WRR-855A/810A (*)**
UHF Synthesized Tuner
(For WRR-855A, BTA-801 Mount Adaptor is required.)

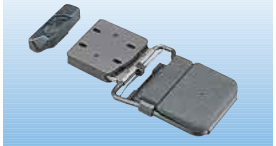
**DXF-701CE/701WSCE**
1.5-inch Monochrome Viewfinder

**DXF-41**
4-inch Monochrome Viewfinder

**DXF-51**
5-inch Monochrome Viewfinder



**VCT-U14**
Tripod Adaptor



**CAC-4**
Chest Pad

**DR-100**
Intercommunication Headset

**CCZ-A2/A5/A10**
Connecting Cable (26-pin - 26-pin)

**CCZQ-A2/A5/A10**
Connecting Cable (26-pin - 14-pin)

**LC-304SFT**
Soft Carrying Case

**LC-421**
Carrying Case

**LCR-1**
Rain Cover

(*) WRR-855A/810A cannot be used in some areas.

## Lenses (2/3-inch format lens)

**VCL-918BY**
(F1.8, 9 to 162 mm)

**A8.5 x 5.5 BEVM-28**
(F1.7, 5.5 to 47mm)

**A15 x 8BEVM-28**
(F1.7, 8 to 120mm)

**VCL-916BYA**
(F1.8, 9.0 to 144mm)

**J15a x 8BIRS**
(F1.7, 8 to 120mm)

**YJ18 x 9BIRS**
(F1.8, 9 to 162mm)

# Specifications

## DXC-D30P/D30WSP Video Camera Head

| | |
|---|---|
| Image device: | 3-chip 2/3-inch, Interline-Transfer CCD |
| Optics: | F1.4 medium index prism system |
| Effective picture elements: | 752 (h) x 582 (v)(DXC-D30P), 980 (h) x 582 (v)(DXC-D30WSP) |
| Total picture elements: | 795 (h) x 596 (v)(DXC-D30P), 1038 (h) x 594 (v)(DXC-D30WSP) |
| Sensing area: | 6.6mm x 8.8 mm (equivalent to a 2/3-inch pickup tube)(DXC-D30P)<br>9.6mm x 5.4 mm (equivalent to a 2/3-inch pickup tube)(DXC-D30WSP) |
| Built-in filters: | 1: 3200K (DXC-D30P), 3200/3000K (DXC-D30WSP)<br>2: 5600K+1/8ND<br>3: 5600K<br>4: 5600K+1/64ND |
| Lens mount: | Sony 2/3-inch Bayonet mount |
| Signal system: | PAL colour system |
| Scanning system: | 2:1 interlaced, 625 lines, 50 fields/sec. |
| Horizontal frequency: | 15.625 kHz |
| Vertical frequency: | 50 Hz |
| Sync system: | Internal and External with the VBS or BS signal |
| Horizontal resolution: | DXC-D30P:850TV lines<br>DXC-D30WSP:700TV lines (16:9 mode), 700TV lines (4:3 mode) |
| Vertical resolution: | 480TV lines (without EVS), 530TV lines (with EVS) |
| Minimum illumination: | 0.5 lx with F1.4, Hyper gain (30dB+DPR)<br>0.8 lx with F1.8, Hyper gain (30dB+DPR) |
| Sensitivity: | F11 at 2000 lx (3200K, 89.9% reflectance) (typical) |
| Gain selection: | -3dB, 0dB, +3dB, +6dB, +9dB, +12dB, +18dB, 18dB+DPR,<br>+24dB, 24dB+DPR, Hyper Gain (30dB+DPR) |
| Shutter speed selection: | OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 sec |
| Signal-to-noise ratio: | 61dB (typical) |
| Registration: | 0.05% (all zones, without lens) |
| Geometric distortion: | Below measurable level |
| Video output: | |
| Camera head BNC connector: | |
| VBS: | 1.0 Vp-p, sync negative |
| 26-pin connector of CA-537P docked to DXC-D30P/D30WSP | |
| VBS: | 1.0Vp-p, sync negative |
| Y/R-Y/B-Y: | Y: 1.0Vp-p, sync negative<br>R-Y/B-Y: 525mVp-p |
| RGB: | 1.4Vp-p |
| Y/C: | Y: 1.0Vp-p, sync negative<br>C: 300mVp-p (burst level) |
| Inputs/ Outputs: | |
| INTERFACE: | Pro 76-pin Digital, Pro 50-pin |
| VIDEO OUT: | BNC-type |
| MONITOR OUT: | BNC-type |
| LENS: | 12-pin |
| VF: | DIN 8-pin, DIN 20-pin |
| REMOTE1: | Stereo mini |
| REMOTE2: | 10-pin |
| Power requirements: | DC 12V (10.5 to 17V) |
| Power consumption: | DXC-D30P:12W (camera head only), 12.7W (with the DSR-1P)<br>DXC-D30WSP:14.9W (camera head only), 15.3W (with the DSR-1P) |
| Operating temperature: | -10˚C to 45˚C (14˚F to 113˚F) |
| Storage temperature: | -20˚C to 60˚C (-4˚F to 140˚F) |
| Mass: DXC-D30P | Approx. 2.3 kg (5 lb 1 oz) for camera head only<br>Approx. 3.1kg (6 lb 13oz) with VF<br>Approx. 4.3 kg (9 lb 8 oz) with VF and lens (w/o lens hood) |
| DXC-D30WSP | Approx. 2.5 kg (5 lb 8 oz) for camera head only<br>Approx. 3.3kg (7 lb 4 oz) with VF |
| Dimensions (w/h/d): | 121 x 206 x 273 (mm)<br>4 7/8 x 8 1/8 x 10 3/4 (inches) |

<Note> DPR is equivalent to +6dB gain up.

| | |
|---|---|
| 18dB+DPR: | Equivalent to +24dB |
| 24dB+DRR: | Equivalent to +30dB |
| Hyper Gain (30dB+DPR): | Equivalent to +36dB |

## PVW-D30P Camcorder

| | |
|---|---|
| Power consumption: | 24.1W (with DXF-701WSCE Viewfinder) |
| Mass: | 8.1kg (17 lb 14 oz) (incl. DXF-701WSCE viewfinder, microphone,<br>VCL-916BYA lens, NP-1B battery, videocassette, carrying handle) |
| Operating time: | 60 min. |
| Dimensions (w/h/d): | 123 x 232 x 367 mm<br>(4 7/8 x 9 1/4 x 14 1/2 inches) |

## DSR-130P Camcorder

| | |
|---|---|
| Power consumption: | 24.8W (with DXF-701WSCE Viewfinder) |
| Mass: | 7.3kg (16 lb 2 oz) (incl. DXF-701WSCE viewfinder, microphone,<br>VCL-916BYA lens, NP-1B battery, videocassette, carrying handle) |
| Operating time: | 60 min. |
| Dimensions (w/h/d): | 121 x 206 x 344 mm<br>(4 7/8 x 8 1/8 x 13 5/8 inches) |

## DXF-701WSCE Electronic Viewfinder

| | |
|---|---|
| Picture tube: | 1.5-inch monochrome |
| Scan size | 4:3 (DXF-701CE), 4:3/16:9 Switchable (DXF-701WSCE) |
| Indicators: | REC x 2, TAKE, BATT, SHUTTER, GAIN UP |
| Resolution: | 600TV lines |
| Power requirements: | DC12V |
| Power consumption: | 2.1W |
| Weight: | 660g (1 lb 7 oz) |
| Dimensions (w/h/d): | Approx. 236 x 85 x 219mm |

## VCL-918BY Zoom Lens

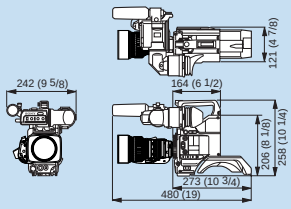
| | |
|---|---|
| Focal length: | 9 to 162mm |
| Zoom ratio: | 18 x |
| Zoom control: | Manual/ Motorized |
| Maximum aperture ratio: | 1:1.8 (f=9 to 117) 1:2.5 (f=162) |
| Iris control: | Manual/ Auto, selectable F1.8 to F16 and C (Close) |
| Range of object field: | W (Wide angle): 782 x 592 mm (31 1/8 x 23 3/8 inches) |
| (at a distance of 0.9m) | T (Telephoto): 45 x 34 mm (1 13/16 x 1 3/8inches) |
| Minimum object distance: | 0.9 m (35 1/2 inches) |
| Filter Thread: | 82 mm P=0.75 mm (lens) |
| Mount: | Bayonet mount |
| Mass: | Approx. 1.3kg (2 lb 14 oz) without lens hood |
| Dimensions: | Approx. 122 x 102 x 219.7 mm<br>(4 7/8 x 4 1/8 x 8 3/4 inches) with lens hood |

## LC-421 Carrying Case

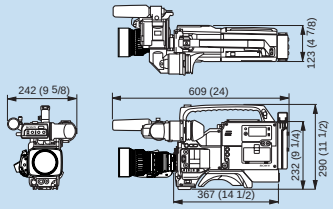
| | |
|---|---|
| Mass: | Approx. 7.7kg (17 lb) |
| Dimensions (w/h/d): | Approx. 790 x 440 x 340mm<br>(31 1/8 x 17 3/8 x 13 1/2 inches) |

## Dimensions

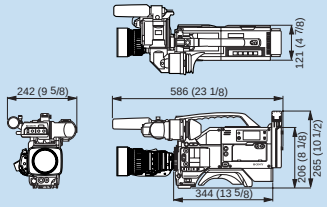
**DXC-D30P/D30WSP**




**PVW-D30P**




**DSR-130P**



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