

The DXC-D35P Series
Advanced Digital
Video Cameras



Catch
the digital wave

Features and specifications are subject to change without notice. All non-metric weights and measures are approximate. Sony, Betacam SP, Betacam SX, Clear Scan, ClipLink, DVCAM, DynaFit, DynaLatitude, Power HAD, Power HAD WS, SetupLog, SetupNavi, and TruEye are trademarks of Sony Corporation.

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Reach new heights with the DXC-D35P

There are some occasions when only the absolute best will do. Occasions when only the latest technology, the finest quality and the most perfect precision will rise to the challenge. In all creative endeavours this is true, but none more so than in the rapidly changing world of digital video production. That's why Sony has developed the DXC-D35P – the digital video camera for professionals that insist on perfection.

The DXC-D35P offers an outstanding array of features to satisfy your quality demands. Faithful colour reproduction, almost to the level of the human eye, is guaranteed thanks to Sony's unique DSP (Digital Signal Processing) technology – based on its TruEye™ process and Power HAD™ CCDs. The detail expression and horizontal resolution are enhanced still further by the latest DSP circuits, pre-amplifier and encoding processes. While drastic smear reduction and high sensitivity are achieved through the Power HAD/Power HAD WS CCDs. All of which provides even more shooting opportunities, while maintaining superior picture quality.



There comes a time
in everyone's career when
only the ultimate equipment
can rise to the challenge.

With the DXC-D35P by your side
you can be sure that all your
digital video capture is simply perfect.



DXC-D35P + CA-537P



DSR-135P (DXC-D35P + DSR-1P)



DXC-D35P + PVV-3P



DXC-D35P + CA-511 + DNV-5P

The DXC-D35P Series

The DXC-D35P Series is made up of four products. The DXC-D35P are the powerful standard models, while the DXC-D35WSP have additional features for shooting in widescreen 16:9 as well as 4:3.

Always captures that special occasion



The DXC-D35P incorporates state-of-the-art digital camera processing technology that is designed to fully exploit the benefits of DSP (Digital Signal Processing).

Optimised signal processing with 10-bit A/D DSP LSI

The DXC-D35P includes the latest version of the Sony 10-bit analogue-to-digital (A/D) DSP camera technology that delivers one of the best picture performances in the industry. While the sharpness of the picture has been further improved because of the optimised signal processing. The DXC-D35P also incorporates innovative camera features, such as TruEye and DynaLatitude™.

Natural colour reproduction with the TruEye Process

Hue distortion is virtually eliminated by Sony's TruEye Digital Signal Processing Technology. This is particularly beneficial in the extreme lighting conditions that result from conventional RGB analogue or digital processing. By processing video signal data at three levels – brightness, hue, and saturation – similar to how the human eye works, the TruEye process assists in the reproduction of natural skin tones.

Contrast control with the DynaLatitude Function

DynaLatitude, a unique feature for contrast control, minimises video level distortion. Based on video signal histograms, the DynaLatitude function aligns the contrast of each pixel to eliminate imbalances, such as the overexposure of background images.

High resolution with new Pre-amplifier and Encoding Circuit

Even without using detail control functions, the DXC-D35P delivers images in high resolution. This is possible thanks to a pre-amplifier processing and digital-to-analogue encoding are performed in a wide signal bandwidth range. This contributes to the high horizontal resolutions of 880 TV lines (DXC-D35P) and 850/800 TV lines (4:3/16:9 modes of DXC-D35WSP).

Power HAD CCD

The DXC-D35P incorporates three Power HAD CCD sensors. These sensors feature a minimal smear level equivalent to conventional FIT CCDs, which addresses the tough demands of the high-end production field. The total performance of the Power HAD CCD sensor approaches that of the standard FIT. High sensitivity, high signal-to-noise ratio, and a virtually invisible smear level of -125 dB are achieved.



DXF-801



VF Light

Enhanced functions for detail correction

Because of Sony's DSP technology, the DXC-D35P is able to offer the following functions for detail correction:

- Skin Detail Correction to control skin detail simply by pressing the SKIN SET button
- Black Halo-Free, Clean Detail to maintain image sharpness in areas with extreme dark-to-light transitions
- Red Vertical Detail Correction to assure image sharpness of highly saturated subjects
- Horizontal Detail Frequency Control

Variable Colour Temperature Setting

In addition to four built-in filters, the DXC-D35P has a function to adjust the colour temperature by small steps. When the filter is set to 3200 K, colour temperature can be chosen using the viewfinder menu, from 19 steps in the range from 2200 K to 4300 K. Similarly, 13 steps in the range from 4600 K to 12000 K are provided when the filter is set to 5600 K. And the set colour can be recalled with the filter position, enabling 'artistic painting', such as adding a "sunset-like" effect, can be easily performed without any special equipment.

Hyper Gain (42 dB)

Hyper Gain is a useful function that allows shooting in the dark by boosting the electric gain. With the DXC-D35P, the gain level of Hyper Gain can be set to a maximum of 42 dB using the viewfinder menu system. This allows shooting in conditions as low as 0.25 lx. No special preparation is necessary, and simply flipping the HYPER GAIN switch turns on this function.

DynaFit Shoulder Pad

The DXC-D35P is equipped with a DynaFit shoulder pad that moulds to any shoulder without slipping to maintain excellent balance. Eliminating the painful pressure points common to harder shoulder pads.

DXF-801 Viewfinder

The new DXF-801, a 1.5-inch black and white viewfinder, gives the DXC-D35P the following features:

- Automatic switching of scanning size between 16:9 and 4:3
- VF light (LED) to light up the iris ring area of the lens for the operation in dark situations (high/low/off)

- DISPLAY switch to turn off the character superimposition on the viewfinder
- Vertical and horizontal detail level control by PEAKING potentiometer
- Tally lamp levels (high/low/off)
- Two red REC tally lamps
- TAKE tally lamp for ClipLink™ operation or for a second tally lamp for CCU operations
- Diecast aluminium body
- Wide range of diopter adjustments

Enhanced ease of operation

Responding to the increasing demands for more automatic functions in professional level cameras, the DXC-D35P boasts several new and improved functions guaranteed to delight the most demanding camera operators:

- EZ Focus to make manual focusing easier
- EZ Mode to set the camera to a standard position instantly
- Auto Tracing White Balance (ATW) to adjust white balance in real time

File Operation for image creation

- Camera Set-up Files consisting of a standard file, five Factory Pre-set Files, and three user files
- SetupNavi™ Function to store the User Files and Factory Pre-set Files to the VAUX (Video Auxiliary) portion of a DVCAM tape
- File Management by PC via REMOTE connector (10-pin, RS-232C)

Convenient features

- Monitor Out (BNC connector) to check the image in the viewfinder with a connected external monitor
- Adjustable Black Stretch and Compress
- Dual Zebra two types of zebra patterns
- Programmable Gain
- Clear Scan™ (CLS)
- Date & Time Superimposition
- Built-in 1 kHz Audio Reference
- Self Diagnostics

Capture the moment, capture the picture

The DXC-D35WSP Advanced wide screen model

The DXC-D35WSP shares the same core technology as the DXC-D35P, but features a number of key enhancements, with a 16:9/4:3 switchable camera designed to respond to the demands for widescreen 16:9 acquisition.

Power HAD WS™ CCD

The DXC-D35WSP is equipped with three newly developed 2/3-inch Power HAD WS CCDs with a high density of 620,000 pixels. Since the CCDs are designed for the 16:9 aspect ratio, with the capability to be switched to 4:3, high quality images can be obtained in the 16:9 mode without any image loss. High sensitivity, high signal-to-noise ratio, and a virtually invisible smear level of -120 dB are achieved.

16:9 and 4:3 Switchable

The DXC-D35WSP can operate in both widescreen 16:9 and standard 4:3 mode without any additional conversion equipment. Furthermore, when shooting in 16:9 mode, it is possible to display a safety zone marker (selectable from 15:9, 14:9, 13:9 and 4:3 aspect ratios) in the supplied viewfinder.

16:9 ID Pulse

When shooting 16:9 images, the DXC-D35WSP automatically adds a wide aspect ID pulse signal to the video output signal from the camera VBS OUT, MONITOR OUT and 50-pin/76-pin interface, indicating that the picture is shot in 16:9 aspect ratio. With the proper video equipment, the aspect ratio is automatically switched to 16:9 by the ID pulse.



CCU-M5P



RM-M74

The DXC-D35P can be combined with a variety of camera adaptors and on-board analogue or digital VTRs. This feature allows the DXC-D35P to work as a core product in various systems.

Multicore CCU Operation

With the CA-537P Camera Adaptor attached, the DXC-D35P can be remotely controlled from the CCU-M5AP Multicore Camera Control Unit with a CCZ-A cable (26-pin). The CCU-M5AP is useful when a camera remote control System Versatility system needs to be set up with an affordable budget. With the following features, the CCU-M5AP system can be used for a wide range of applications:

- 300m cable compensation with CCZ-A cable (26-pin)
- Teleprompter support (This requires a certain modification in some cases. Please contact your nearest Sony office.)
- Two composite outputs, one Y/C, and one component output (selectable from Y/R-Y/B-Y and R/G/B)
- Fan alarm LED

- Control functions IRIS (auto/manual), White Balance (auto/manual/pre-set), Black Balance (auto/manual/pre-set), Gain Select (low/mid/high), R/B Gain, R/B Pedestal, Master Pedestal, Sub-carrier Phase, Horizontal Phase, Output Mode (colour bar/camera), Knee Point (auto/manual/pre-set), Detail Level, Tally/Intercom, Shutter Speed Selection, and Clear Scan

Remote Controllers

The 10-pin REMOTE Connector is designed in accordance with the RS-232C standard. With this connector, the DXC-D35P can be directly controlled from the compact RM-M7G.

As a DVCAM™ Camcorder (with DSR-1P)

The DXC-D35P can be docked with the DSR-1P DVCAM Recorder via the 76-pin Digital connector that supplies component digital output from the camera to the recorder. Since the DXC-D35P is designed to be configured with the DSR-1P, some unique features are provided for the use as a DVCAM full digital camcorder.

- DVCAM digital recording format for professional use
- Playback compatibility with the consumer DV recording format
- Support of both DVCAM Mini Cassette tapes and DVCAM Standard Cassette tapes
- Maximum recording time – 184 minutes (DVCAM Standard Cassette tape)
- Maximum operating time – 260 minutes (BP-L90A Lithium-ion battery)
- Time code superimposition during playback
- Easy control of CH-1 audio level with level controller on the front panel
- Edit Search function to easily access to edit points
- Freeze Mix function to easily position the subject just as in the previous shot
- SetupNavi™ function to store camera set-up files onto the Video Auxiliary portion of a DVCAM tape
- SetupLog™ to automatically record camera setting data for each shot onto VAUX portion of a DVCAM tape
- ClipLink System comprehensive shooting information and image management system

As a Betacam SP® Camcorder (with PVV-3P)

By combining the DXC-D35P with the PVV-3P Betacam SP Recorder, a Betacam SP camcorder can be configured. The high quality picture of the DXC-D35P Digital Video Camera can be directly recorded in the Betacam SP format – one of the best analogue recording formats currently available in the professional field. The 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.

As a Betacam SX™ Camcorder (with DNV-5P)

By combining the DXC-D35P with the DNV-5P Betacam SX Recorder via the CA-511 Camera Adaptor, an affordable Betacam SX digital camcorder can be configured. The high quality picture of the DXC-D35P can be directly recorded onto a Betacam SX Digital Video-Cassette Tape, widely used for the top-end production. Status information such as "low battery" and "tape near end" can be shown in the viewfinder.

Optional accessories



DSR-1P
DV CAM Digital Recorder



PVV-3P
Betacam SP 2000 PRO Recorder



VA-300P
Playback Adaptor for PVV3



DNV-5P
Betacam SX Recorder



RM-LG1
Remote Control Unit



CMA-8ACE
AC Power Adaptor



AC-550CE
AC Power Adaptor



ECM-672/670
Electret Condenser Microphone



C-75
Condenser Microphone



RM-M7G
Remote Control Unit



CCU-M5AP
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)



EC-0.5C2
Microphone Cable



CAC-12
Microphone Holder



WRT-810A
UHF Wireless Microphone



WRT-820A
UHF Synthesized Transmitter



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



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



DXF-41
4-inch Monochrome Viewfinder



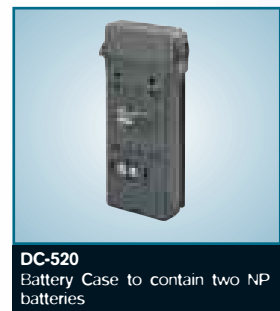
DXF-51
5-inch Monochrome Viewfinder



VCT-U14
Tripod Adaptor



BP-90A
NiCd Rechargeable Battery



DC-520
Battery Case to contain two NP batteries



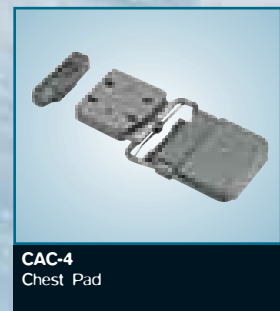
DC-500
Battery Case for BP-90A (Waist belt type)



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



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



CAC-4
Chest Pad



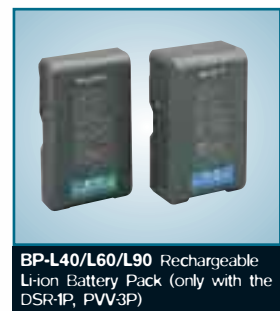
DR-100
Intercommunication Headset



CCZ-A5/A25/A50/A100
Connecting Cable (26-pin - 26-pin)



LC-DS300SFT
Soft Carrying Case



BP-L40/L60/L90 Rechargeable Li-ion Battery Pack (only with the DSR-1P, PVV3P)



BKW-L601 Adaptor to attach BP-L60/L90 to dockable VTRs (DSR-1P, PVV3P)



BC-L50CE/L100CE
Battery Charger for BP-L40/L60/L90



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



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



LC-421
Hard Carrying Case



LCR-1
Rain Cover

Lenses



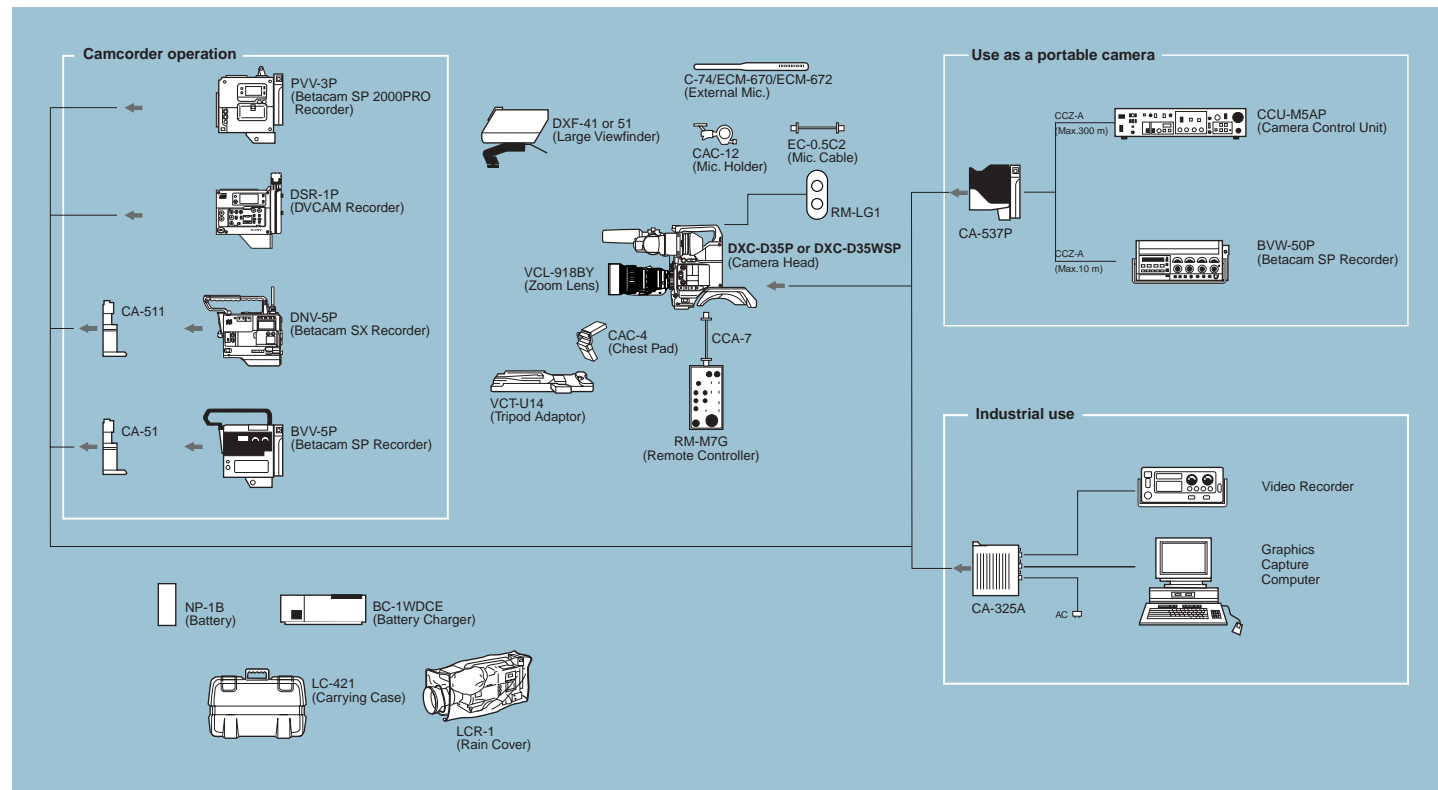
VCL-918BY
(F1.8, 9 to 162mm)

Product configuration

	DXC-D35PK	DXC-D35PL	DXC-D35PH
DXC-D35P Camera head	Yes	Yes	Yes
Camera handle*	Yes	Yes	Yes
Remote control unit RM-LG1*	Yes	Yes	Option
Viewfinder DXF-801*	Yes	Yes	Option
(with microphone holder)			
Tripod adaptor VCT-U14	Yes	Yes	Option
External microphone*	Yes	Yes	Option
Zoom lens	Yes	Option	Option
DXC-D35WSPL			
DXC-D35WSP Camera head		Yes	
Camera handle*		Yes	
Remote control unit RM-LG1*		Yes	
Viewfinder DXF-801*		Yes	
(with microphone holder)			
Tripod adaptor VCT-U14		Yes	
External microphone*		Yes	
Zoom lens		Option	
DSR-135PL			
Camera DXC-D35P		Yes	
Camera head		Yes	
DSR-1P		Yes	
Remote control unit RM-LG1*		Yes	
Viewfinder DXF-801*		Yes	
(with microphone holder)			
Tripod adaptor VCT-U14		Yes	
External microphone*		Yes	
Shoulder strap*		Yes	
Handle for camcorder*		Yes	

* The camera handle, remote control unit, viewfinder, external microphone, shoulder strap and handle for camcorder are available only as service parts.

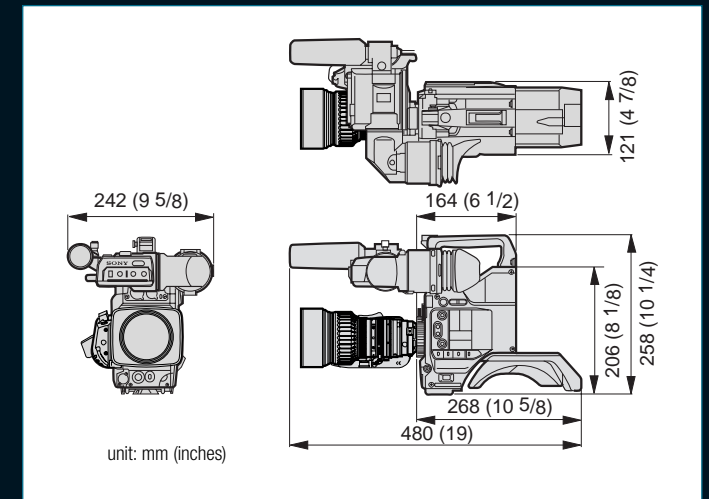
System configurations



Specifications

DXC-D35P, DXC-D35WSP Video Camera Head

Image device: 3-chip 2/3-inch, Interline-Transfer CCD
 Optics: F1.4 medium index prism system
 Effective picture elements: DXC-D35P: 752 x 582 (H x V)
 DXC-D35WSP: 980 x 582 (H x V)
 Total picture elements: DXC-D35P: 795 x 596 (H x V)
 DXC-D35WSP: 1038 x 594 (H x V)
 Sensing area: DXC-D35P: 6.6 mm x 8.8 mm
 DXC-D35WSP: 9.6 mm x 5.4 mm
 Built-in filters: 1: 3200K, 2: 5600K+1/4ND, 3: 5600K, 4: 5600K+1/4ND
 Lens mount: Sony 2/3-inch Bayonet mount
 Scanning system: DXC-D35P/D35WSP: 2:1 interlaced, 625 lines, 50 fields/sec.
 Horizontal frequency: DXC-D35P: 15.625 kHz
 Vertical frequency: DXC-D35P: 50 Hz
 Sync system: Internal and External with the VBS or BS signal
 Horizontal resolution: DXC-D35P: 880TV lines
 DXC-D35WSP: 850 TV lines (4:3 mode), 800TV lines (16:9 mode)
 Vertical resolution: 480TV lines (without EVS), 530TV lines (with EVS)
 Minimum illumination: 0.25 lx with F1.4, Hyper gain (36 dB+DPR*)
 0.4 lx with F1.8, Hyper gain (36 dB+DPR*)
 Sensitivity: F11 at 2000 lx (3200 K, 89.9% reflectance) (typical)
 Gain selection: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 18 dB+DPR, 24 dB, 24 dB+DPR, Hyper Gain (30 dB+DPR or 36 dB+DPR)
 Shutter speed selection: OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 sec
 Clear scan selection: 50.3 to 201.4 Hz
 Signal-to-noise ratio: 61 dB (typical)
 Registration: 0.05% (all zones, without lens)
 Geometric distortion: Below measurable level
 Video output: Camera head BNC connector
 VBS: 1.0Vp-p, sync negative
 26-pin connector of CA-537/537P
 VBS: 1.0 Vp-p, sync negative
 Y/R-Y/B-Y:
 Y: 1.0 Vp-p negative,
 R-Y/B-Y: 525 mVp-p DXC-D35P/D35WSP
 RGB: 1.4 Vp-p
 Y/C:
 Y: 1.0 Vp-p, sync negative,
 C: 300 mVp-p (burst level)
 INTERFACE: Pro76-pin DIGITAL, Pro 50-pin
 VIDEO OUT: BNC
 MONITOR OUT: BNC
 LENS: 12-pin
 VF: DIN 8-pin, 20-pin
 REMOTE1: Stereo mini
 REMOTE2: 10-pin
 MIC IN: XLR 3-pin
 Power requirements: DC 12 V (10.5 to 17 V)
 Power consumption: DXC-D35P: 12 W
 DXC-D35WSP: 14.9 W
 Operating temperature: -10°C to 45°C
 Storage temperature: -20°C to 60°C
 Operating humidity: Less than 85%
 Storage humidity: Less than 90%
 Mass: DXC-D35P: Approx. 2.4 kg for camera head only
 DXC-D35WSP: Approx. 2.5 kg for camera head only
 Dimensions (w/h/d): DXC-D35P: 121 x 206 x 268 mm
 DXC-D35WSP: 121 x 206 x 268 mm



DSR-135P Camcorder

Power consumption: 24.8 W
 Operating temperature: 0°C to 45°C
 Storage temperature: -20°C to 60°C
 Weight: Approx. 6.3 kg including DXF-801, DSR-1P, handle, BP-L60A and joint plate
 Dimensions (w/h/d): 121 x 206 x 344 mm

DXF-801

Picture tube: 1.5-inch monochrome
 Scan size: 4:3 / 16:9 switchable
 Indicators: REC TALLY x 2, TAKE TALLY, BATT, SHUTTER, GAIN UP,
 Horizontal resolution: 600TV lines
 Power requirement: DC 12 V
 Power consumption: 2.1 W
 Weight: 620 g (1 lb 9 oz)
 Dimensions (w/h/d): 240 x 91 x 196 mm including protruding parts

*Note: DPR is equivalent to +6 dB gain up.

DXF-801

Sony Electronic Viewfinder



1.5-inch Monochrome Monocular Viewfinder for DXC-D55 family cameras

Leistungsmerkmale

- 1.5-inch monochrome viewfinder
- Compatible with DXC-D50 and DXC-D55 series cameras
- Supplied as standard accessory with the DXC-D55PK, DXC-D55PL and DXC-D55WSPL portable cameras

- Optional accessory for the DXC-D55PH and DXC-D55WSPH portable camera

This product comes with PrimeSupport – fast, hassle-free repairs and a helpline offering expert technical advice. Which gives you the peace of mind that Sony is looking after your equipment, and your business.

Technische Daten

CRT	1.5-inch monochrome, 4:3/16:9 switchable
Indicators	REC TALLY (2), TAKE TALLY, BATT, SHUTTER, GAIN UP
Horizontal resolution	600 TV lines

Power requirements	DC 12 V
Power consumption	2.4 W
Mass	620 g
Dimensions (W x H x D)	241 x 91 x 203 mm

Kompatible Produkte

XDCAM



PDW-F355L

Mit umfangreichen Funktionen ausgestatteter XDCAM HD-Camcorder, der auf die neuesten Dual Layer Professional Discs aufzeichnet - für noch längere Aufzeichnungszeiten. Wird ohne Objektiv geliefert.

Aufzeichnungszeiten. Wird mit dem manuellem Canon Objektiv KH20x6.4 geliefert.



PDW-F335K/2

Wandelfähiger XDCAM HD-Camcorder, der auf die neuesten Dual Layer Professional Discs aufzeichnet - für noch längere



PDW-F335L

Wandelfähiger XDCAM HD-Camcorder, der auf die neuesten Dual Layer Professional Discs aufzeichnet - für noch längere Aufzeichnungszeiten. Wird ohne Objektiv geliefert.

Professionelle DXC-Serie**DXC-D55PH**

Professionelle digitale Videokamera In der Version 4:3 und der umschaltbaren Version 4:3/16:9. Mit optionalen Zubehörpaketen.