



Shown with optional battery.

Professional Hard Disk Recording Unit – 120GB

Up to 8 Hours of recording for XDCAM EX™ camcorders.*

With true 1920 x 1080 image sensors and true 1920 x 1080 recording, Sony's XDCAM EX camcorders are among the industry's most versatile. Now you can expand their capabilities even further. The PHU-120K is a hard disk unit that extends recording time up to 520 minutes (SP mode, 25 Mbps) or 400 minutes (HQ mode, 35 Mbps). **

A successor to the PHU-60K, the PHU-120K was developed to increase workflow efficiency, fulfilling the demand from professional camcorders or non-linear video editing systems for higher performance, reliability and lower bit cost.

Just think of all you can accomplish:

- Record long events, including weddings, conventions and conferences.
- Extended recording for documentaries and nature shoots can make the difference between capturing and missing the shot.
- Perfect for dramas with high shooting ratios; more takes give your actors the opportunity to hone their parts.
- Extended news events, including court cases, hearings, political conventions.
- Capture entire baseball, football or soccer games on a single piece of media.

Simple operation

The PHU-120K does not have – and does not need – transport controls, record time displays or multiple inputs and outputs. The unit simply plugs into a media slot on the host camcorder or deck, where it is recognized as if it were just another memory card! All read, write and file access operations are controlled by the host recorder. It's slick – and simple.



*A firmware update may be required for use with PDW-EX1 camcorder. The PHU-120K does not support Slow Motion recording.

**Use of the manual selection switch and both drive partitions are required to achieve maximum record time of 520 minutes in SP mode @ 25Mbps.

PHU-120K Hard Disk Recording Unit

Super durability.

Sony engineers are keenly aware of the high-stress video shooting environments, when using hard disk media. That's why the PHU-120K incorporates a comprehensive, five-stage approach to resisting and recovering from shock and vibration.

- **Internal shock absorbers.** The disk drive itself is suspended inside the PHU-120K chassis by four specially engineered dampers that help protect against shock.
- **CyberCapture® technology.** Unlike PC data, audio/video recording requires consistent, sustained transfer speeds. Sony's CyberCapture technology is designed to compensate for potential variations in performance to achieve sustained transfer speeds.
- **3G shock detection.** As in a laptop PC, this system senses a potential shock and temporarily "parks" the read/write heads away from the hard disk surface, to help protect the disk from damage.
- **Shock resistant memory.** Should shock or vibration become severe enough to disrupt recording, incoming data is automatically stored in 9 seconds of buffer memory. This gives the unit the chance to recover and continue recording as if nothing had happened.
- **Salvage function.** In the event of a power interruption, the data salvage function of the camcorder minimizes lost footage. While performance varies according to conditions, typically only the last few seconds of material is affected.

Other features

- **Three LEDs are used to indicate Access, Power and Battery.**
- **Instant record** uses the buffer memory to start recording even before the hard drive spins up.
- **Accepts the same battery as XDCAM EX™ camcorders;** optional BP-U30 battery pack (required, not supplied). The recommended battery charger is the BC-U1.
- **Approximately 12 hours of continuous use** on a single battery charge, with optional BP-U30 battery pack.
- **Supplied shoe adaptor** for secure attachment to PDW-EX1[†] and PDW-EX3 camcorders.
- **Supplied connection cable** connects to the USB interface on the PHU-120K and plugs into the SxS PRO™ card slot on the PDW-EX1[†] or EX3 camcorder or PDW-EX30 deck.
- **Easy ingest and editing:** Connects directly to a PC or Mac computer via USB 2.0. Supports Windows® XP and Windows Vista® operating systems, Macintosh® OS 10.4 and up.



Hard Disk Recording Time

Mode Setting	Audio Format	Rec Time
HQ mode (35Mbps)	LPCM 16-bit, 48kHz, 2ch	Approx. 200 min x 2 Total up to 400 min ¹
SP mode (25Mbps)	LPCM 16-bit, 48kHz, 2ch	Approx. 260 min x 2 Total up to 520 min ²

These recording times are for reference when using an XDCAM EX series product.

¹Manual selection required to access second 200 minutes.

²Manual selection required to access second 260 minutes.

Specifications

Interface		USB 2.0
Capacity		Total 120 GB 60 GB x 2
User Capacity*		Up to total 118 GB. 59 GB x 2.
Recording time		HQ mode (35 Mbps): approx 200 min x 2 Total approx 400 min SP mode (25 Mbps): approx 260 min x 2 Total approx 520 min
Transfer rate**		Approx 24 MBps (Approx 190 Mbps)
Power Requirements		DC 12 V ± 0.5 V; Optional BP-U30 battery pack: 14.6, +1.8/-0.0 V
Power Consumption		Average: Approx 2.5 W, Max: Approx 4.0 W
Operating Temperature		32°F – 104°F (0°C – 40°C)
Storage Temperature		68°F – 140°F (-20°C – 60°C)
Operating Altitude (atmospheric pressure)		-1,000 – 16,400 feet (-300 – 5,000 m) (1.04 - 0.5 atm)
Storing Altitude (atmospheric pressure)		-1,000 – 39,000 feet (-300 – 12,000 m) (1.04 - 0.3 atm)
Shock Resistant [†]		59" (150 cm)
Insertion/removable durability		PHU-120K: DC 1,800 times; Battery 1,800 times; USB 3,600 times; Shoe Adaptor: PHU-120K 3,600 times; XDCAM-EX 1,350 times; PHU connect cable: Cable 1,800 times; XDCAM-EX 10,000 times
Weight	Cartridge	Approx 8 oz. (220 g)
	Adaptor	Approx 3 oz. (87 g)
Dimensions	Cartridge	Cartridge only: Approx 3-1/2 x 5-3/8 x 1-1/4" (89 x 135 x 32 mm) Cartridge with Battery: Approx 3-1/2 x 5-3/8 x 2-3/8" (89 x 135 x 59 mm)
	Adaptor	Approx 1-7/8 x 4-3/8 x 4-1/2" (48 x 36 x 37 mm)
Operating/Storing Humidity		8 – 90% (Non condensing)

* User capacity may differ depending on the hardware used for formatting. Up to 118 GB capacity is available when shipped out of the factory.

** In laboratory test. Actual transfer rate may vary depending on hardware used.

[†] Based upon test. This does not guarantee no damage to the unit or the contents.

SONY

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