



## Professional Hard Disk Recording Unit

### 4 hours of uninterrupted 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-60K is a hard disk unit that extends recording time up to 260 minutes (SP mode, 25 Mbps) or 200 minutes (HQ mode, 35 Mbps). \*

### Just think of all you can accomplish:

- Uninterrupted recording of 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-60K 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-60K does not support Slow Motion recording.



# PHU-60K 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-60K 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-60K 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 proof memory.** Should shock or vibration become severe enough to disrupt recording, incoming data is automatically stored in 7 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

- **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<sup>†</sup> and PDW-EX3 camcorders.
- **Supplied connection cable** connects to the USB interface on the PHU-60K and plugs into the SxS PRO™ card slot on the PDW-EX1<sup>†</sup> 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.
- **LED indicators for Access, Power and Battery.**

Hard Disk Recording Time

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

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

## Specifications

Interface	USB 2.0
Capacity	60 GB
User Capacity*	Approx 59 GB
Recording time	SP mode (25 Mbps): approx 260 min, HQ mode (35 Mbps): approx 200 min
Transfer rate**	Approx 20 MBps
Power Requirements	DC 12 V, ± 0.5 V; Optional BP-U30 battery pack: 14.6, +1.8/-0 V
Power Consumption	Average: Approx 2.5 W, Max: Approx 4.0 W
Operating Temperature	41°F – 104°F (5°C – 40°C)
Storage Temperature	68°F – 140°F (20°C – 60°C)
Operating Altitude	-1,000 – 10,000 feet (-300 – 3,000m)
Storage Altitude	-1,000 – 39,000 feet (-300 – 12,000m)
Insertion/removable durability	PHU-60K: DC 1,800 times; Battery 1,800 times; USB 3,600 times, Shoe Adaptor: PHU-60K 3,600 times; Camcorder 1,350 times, PHU connect cable: Cable 1,800 times; Media slot 10,000 times
Weight	Cartridge: Approx 8 oz. (220 g), Adaptor: Approx 3 oz. (87 g)
Dimensions	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/Storage Humidity	8 – 90% (Non condensing)

\* User capacity may differ depending on the hardware used for formatting. Approx. 59 GB capacity is available when shipped out of the factory.

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

† A firmware update may be required for use with PDW-EX1 camcorder.

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