

Professional Hard Disk Unit from Sony

Capture more of your HD XDCAM EX footage with larger capacity

HD is here and it's time to be involved.

If you're looking for an external hard disk unit offering high-capacity XDCAM EX storage and stable data transfer, choose PHU-120K!

PHU-120K Series

PHU-120K: 120GB



SONY

www.sonybiz.net/promedia

like.no.other™



True XDCAM efficiency

Designed for XDCAM EX users

PHU-120K has been designed to enhance the workflow opportunities for XDCAM EX users. Using the now well established Express Card™ technology and a USB2.0 interface, our new hard disk benefits from an optimized protocol for controlling communication with PMW-EX1⁽¹⁾ and PMW-EX3 series cameras. This results in very stable data transfer during long recordings.

(1) A firmware is required for PMW-EX1 purchased before September 2008.

Combining the best media for maximum performance

Both the PHU-120K hard disk unit and SxS PRO⁽²⁾ memory card are essential partners for XDCAM EX camcorders. Select the most suitable media for each individual project to truly maximise workflow efficiency.

Choose SxS PRO when you need speed and ultimate portability for your daily XDCAM EX shoots. It's robust, reliable and very small so you can easily carry it around wherever you go. SxS PRO is also the fastest solution⁽³⁾ for time-critical editing.

Choose the PHU-120K when you need higher storage capacity, stability and cost effectiveness.

Super light hard disk unit joins the XDCAM EX product family

Offering striking HD pictures, excellent mobility and high operational efficiency at a very affordable cost, XDCAM EX camcorders with super fast SxS PRO memory cards have revolutionised tapeless HD productions.

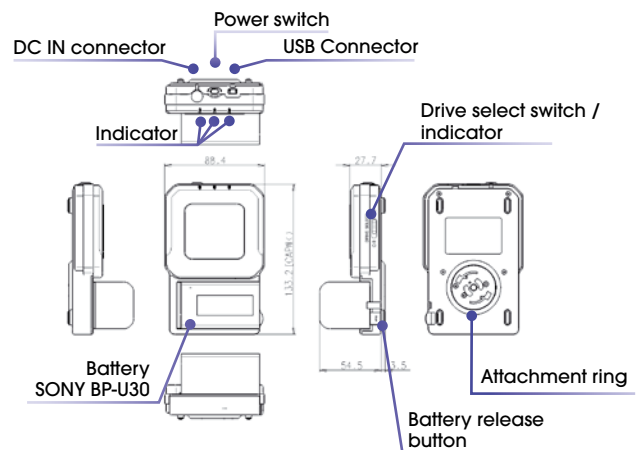
Now, Sony Professional Media increases the efficiency of XDCAM EX even further one 120GB hard disk unit with two 60GB improved partition drives capable of recording approximately 520 minutes of HD video. The PHU-120K challenges the limits of XDCAM EX productivity with high capacity storage, stable data transfer and outstanding reliability.

PHU-120K is part of family of Sony HD media products designed for every need and budget.

PHU-120K in detail

The PHU-120K comprises one 120GB hard disk unit, Shoe Adaptor and connection cable.

To use with your EX camcorder, you will need the same battery as your camcorder. Sony recommends the BP-U30 (28Wh) and BP-U60.



BP-U30 Battery Life

Mode Setting	Performance
Recording	Almost 12 hours
Idle Mode	Almost 12 hours



combining PHU-120K and SxS PRO

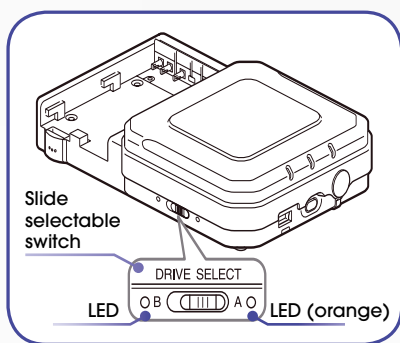
Ideal for freelance videographers at shows and exhibitions where longer indoor⁽⁴⁾ filming at an affordable cost is of paramount importance. A reliable high capacity day-to-day solution.

True XDCAM EX professionals will appreciate the need to switch regularly between SxS PRO and the PHU-120K in order to get the best from their equipment. Both media are designed to be used in synergy.

(2) SBP-16; SBP-32

(3) 100MB/s for SBP cards vs 24MB/s on PHU-120K

(4) PHU-120K Operating temperature: 0°C to 40°C



Cybercapture™ Technology



Cybercapture™ is an advanced software technology created by Sony to maximize the performance of Sony hard disk units.

By optimising read/write performance, Cybercapture™ enables the PHU-120K to achieve stable data transfer while recording video. Vibrations, shocks and low temperatures are much better monitored and managed with less frame drop.

PHU-120K with two 60GB high performance partition drives delivers a sequential read / write sustained data transfer rate of 190 Mbps under normal conditions and a minimum transfer rate of 35Mbps under extreme conditions.

Advanced Data Protection

PHU-120K is designed to fully protect your precious data with a variety of high security technology.

In fact, with no less than four innovative protection features, PHU-120K is far more reliable than most other hard disk units.

> A data salvage function

enables restoration of contents damaged due to battery or cable disconnection and power down during recording.

> A shock proof buffer memory allows continuous recording during vibration or shock conditions.

> A buffer memory allows recording as soon as the PHU-120K is turned on for faster XDCAM EX workflow.

> A 3G Sensor detects excessive falls or rollovers and automatically parks the HDD head within the PHU-120K to prevent damage to the disk and protect your data.

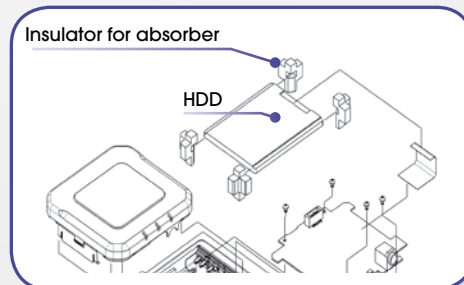
Light but Robust!

Despite weighing just 220g, PHU-120K is a really robust Hard Disk Unit.

If dropped from a maximum of 1.5 metres or a rollover happens, the PHU-120K is protected by a new insulator which is designed against mechanical shock and vibration. In addition, a 3G sensor protects data by parking the HDD head.

If any shock or vibration prevents writing to the HDD, the shock proof memory will allow continuous recording for a maximum of nine seconds⁽⁵⁾.

(5) in HQ mode (35Mbps)



Understanding your PHU



ACCESS (Orange)	POWER (Green)	BATTERY (Orange)	Status
OFF	Lit	OFF	Power on
Lit	Lit	OFF	HDD being accessed
OFF	Flashing (every 0.5 sec.)	OFF	Start up
OFF	Flashing (every 1 sec.)	OFF	Shutting down
Lit during access	Lit	Flashing (every 1 sec.)	Low battery. (12% or lower)
Lit during access	Lit	Flashing (every 0.5 sec.)	Low battery. (10% or lower)
OFF	Lit	Flashing (every 0.25 sec.)	An abnormality has been detected in battery
OFF	Flashing (every 0.5 sec.)	Flashing (every 0.5 sec.)	A hardware error has occurred
Lit during access	Flashing (every 1 sec.)	Flashing (every 1 sec.)	Temperature is out of specification
Lit during access	Lit	Flashing (every 1 sec. + 3 sec. rest)	An HDD operation error has occurred

Professionals Choose Sony

Sony is your perfect HD partner

HD is here and Sony offers XDCAM EX professionals more capacity and performance than ever for increased workflow efficiency. The compact PHU-120K external hard drive unit provides two 60GB high performance partition drives of high capacity storage with stable data transfer during recording. Ideal for longer video shoots and lengthy interviews, the PHU-120K is also extremely reliable and resistant against mechanical shocks. A perfect partner for XDCAM EX series and SxS PRO media giving today's filmmakers the ideal solution for high capacity, low cost HD video production.



Product Specifications	
PHU-120K line-up	
Interface	ExpressCard™/34 USB2.0
Transfer speed	24 MBps (190 MBps)
Operating voltage	DC 12 V ±0.5 V, Battery 14.6 + 1.8V / -0.0 V
Power consumption	TYP. Approx.2.5 W, MAX. Approx.4.0 W
Operating temperature	0° C to 40° C
Operating relative humidity	8 to 90% (No condensation required)
Operating Altitude	-300 to 5000m
Storing temperature	- 20° C to 60° C
Storing relative humidity	8 to 90% (No condensation required)
Dimensions (W x H x D)	Cartridge Approx 89 x 135 x 32 mm
Durability/Reliability	Shock resistance 150 cm
Insertion/removable durability (times)	
PHU-120K	DC 1,800 / Battery1,800 / USB 3,600
Shoe Adaptor	PHU-120K 3,600 / XDCAM-EX 1,350
PHU connection cable	Cable 1,800 / XDCAM-EX 10,000

Recording Time*	
Mode Setting	PHU-120K
HQ mode	
35 Mbps	Approx. 200min x 2
SP mode	
25 Mbps	Approx.260min x 2

* Recording times may vary depending on the model or recording conditions. These recording times are for reference when using an XDCAM EX series product.

PHU-120K line-up					
Model	Capacity (GB)	User Capacity (GB)	Weight (g)	Master Carton Quantity (pcs)	Weight (kg)
PHU-120K	120	59x2 (*)	307(**)	5	~3

(*) may differ depending on their hardware used for formatting
(**) cartridge (without battery) and adaptor

SONY

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