

PDW Series Decks

PDW-V1 MOBILE DECK (PLAYBACK AND FILE RECORDING)

PDW-1500 COMPACT DECK (RECORDING AND PLAYBACK)

PDW-3000 STUDIO DECK (RECORDING AND PLAYBACK)

The Sony PDW line of products offers three types of decks to meet the varying operational needs experienced both in the field and studio. Their functions have been carefully selected to increase production efficiency by exploiting the advantages of optical discs, and they provide familiar VTR-like controls that minimize the learning curve needed to get up to speed.

The PDW-V1 Mobile Deck is an extremely compact and lightweight unit, offered as an affordable solution for playing back optical discs as well as for AV and data file recording* through its Ethernet network interface or i.LINK (SBP2) interface. It is ideal for field applications, and for desktop viewing by journalists, producers, and other production staff.

A unique feature of this model is its built-in 3.5-inch** type color LCD screen, allowing users to view recordings any time, anywhere without the need for an external video monitor. What's more,

the PDW-V1 is equipped with a VGA output capability, so users can view recordings on standard computer displays too.



The PDW-V1 can be AC or battery powered, a feature that proves convenient in the field. What's more, because it allows high-speed transfer of proxy AV data, it can also serve as a cost-effective editing solution in conjunction with the XPR1 Mobile Editor. As with other PDW Series products, the PDW-V1 offers a scene selection capability, to which even greater user convenience is added with its color LCD screen.



The PDW-1500 Compact Deck is a half-rack sized recorder optimized for use with nonlinear editing systems. Despite its compact size, this deck offers high-speed data transfers between compatible nonlinear devices, creating a powerful editing tool for video productions.

*The PDW-V1 does not support synchronous video/audio input.

**Viewable area measured diagonally

***Requires an optional linear control panel.

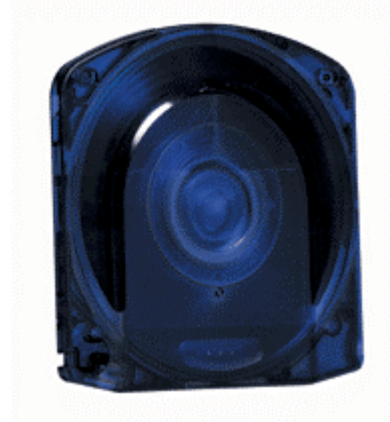
New “Nonlinear” Recording Medium – The Professional Optical Disc

The professional optical disc is a newly developed, single-sided, optical disc that uses state-of-the-art blue-violet laser technology to enable extremely large capacity recordings. The diameter of the disc is a mere 12 cm, equal to that of other optical media such as CDs or DVDs. Yet, despite its small size, the disc provides an amazing storage capacity of 23.3 GB – a feat made possible using a 405 nm blue-violet laser and an object lens with a 0.85 numerical aperture (NA) and specially developed recording layer.

Sony has taken great care in selecting the professional optical disc as the next generation professional recording medium. The choice is based on Sony experience and technical expertise in developing and marketing a wide range of professional products that have effectively served users

SPECIFICATIONS

Storage capacity	23.3 GB
Laser wavelength	405 nm (blue-violet)
Data transfer (writing) rate	72 Mb/s (per optical head)
Disc diameter	120 mm (4 5/8 inches)
Cartridge dimensions (W x H x D)	129 x 131 x 9 mm (5 1/8 x 5 1/4 x 3/8 inches)
Mass	89 g (3 oz)
Recording format	Phase change recording



Flexible Platform

The professional optical disc is a very flexible platform on which an assortment of data in a variety of formats can reside. The use of optical disc technology eliminates the restrictions inherent in proprietary tape footprints, and allows a variety of different video formats to be recorded using the same disc. It handles information as 'data files', and is therefore extremely flexible as to what can be recorded to it. In addition to video and audio streams, you can record a variety of metadata, such as date/time/location information, scripts, lowresolution video and audio, etc. And the amount of metadata you record is completely up to you*, since the information does not have to reside on a limited, predetermined area of the disc.

Largest-Capacity Optical Disc

The superior disc capacity of the professional optical disc enables you to make high-quality yet long-duration recordings. Its 23.3-GB data capacity translates to a recording time of 45 to 90 minutes depending on the bit rate the camera operator chooses.

High Transfer Rate

The professional optical disc's data transfer rate is 72 Mb/s from a single optical head unit and 144 Mb/s on a dual head deck, providing stable recording and playback of high bit rate data such as a 50 Mb/s MPEG IMX stream.

Quick Random Access

The nonlinear nature of the professional optical disc alone provides tremendous benefit when handling audio/video content. When a recording is played back from the disc, its physical location on the disc does not impact the time required to access it. Recordings can be accessed in a fraction of the equivalent time taken to access information on tape, making it much easier and faster to locate source material. This is the beauty of random access, and all Sony PDW Series products are equipped with powerful features - delivering innovation to all your programming operations.

Highly Reliable, Durable and Re-usable Medium

Optical discs have a natural advantage since they suffer no mechanical contact during recording or playback, making the format ideal for continuous use and re-use. Professional optical discs are also highly resistant to dust, shock and scratches, packaged in an extremely durable and dust-resistant cartridge. They are resistant to heat and humidity, and are X-ray resistant - factors that make the professional optical disc ideal for use in harsh field environments, and also allow for long media life and long-term storage.

* The data volume available for metadata depends on the volume used to record video and audio data.

PDW-510/510P CAMCORDER (DVCAM RECORDING) PDW-530/530P CAMCORDER (MPEG IMX/DVCAM RECORDING)

Sony PDW Series camcorders have been designed with special consideration for heavy duty field acquisition, providing excellent picture quality, operability and reliability inherited from the Sony BETACAM™ family of acquisition products.

In addition to these impressive capabilities, Sony PDW Series camcorders also provide numerous innovative features that take full advantage of the benefits of nonlinear disc media. These unique features offer a completely new style of field operation, adding flexibility and efficiency to those operations where quick program completion is a top priority.

The PDW-530/530P features MPEG IMX/DVCAM-switchable recording and two built-in optical filter wheels (ND and CC), while the PDW-510/510P features DVCAM recording and one built-in optical filter wheel.

Common Features on Both Camcorders

- 16:9/4:3 Switchable Power HAD™ EX CCDs
- 12-bit A/D Conversion
- Advanced Digital Signal Processing
- Compact, Lightweight Body
- Rugged and Ergonomic Design
- Shock- and Dust-Resistant Disc Drive
- 2.5-inch* Type Color LCD Screen
- Extensive Range of Interfaces
- Loop Recording
- Low-Light Shooting
- Flexible Image Controls
- High-Quality Audio Recording



Other Features

- Thumbnail search operation
- Scene selection operation
- Proxy AV data recording
- Metadata recording: UMID, Extended UMID, essence marks including shot marks, GPS information (option)
- A second LCD screen displays time code, and remaining battery/disc capacity during power on and off.
- Four assignable buttons, two on the camera handle and two on the inside panel, enable operators to assign frequently used functions.



- Auto Tracing White Balance for automatic adjustments in camera color temperature according to lighting changes
- Interval recording (automatic and manual) intermittently records signals at pre-determined intervals, ideal for recording over long periods.
- "MemoryStick"™ function for storage of camcorder setup files
- Slot to accommodate a Sony WRR-855 Series wireless microphone receiver
- Optional network card for Ethernet connection
- Camera remote control via Sony RM-B150 and RM-B750 remote control units
- Intelligent lighting system synchronizes strobe on/off to the Rec button.
- DVCAM output from MPEG IMX playback via iLink

