

DVNR

The DVNR system is a comprehensive, flexible, hardware-based system for telecine and tape-to-tape applications that has set the standard in film and video industry post-production facilities since 1988.

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DVNR

Working in:

- Motion picture Digital Intermediate (DI)
- Motion picture Digital Mastering
- Long form television
- Commercials
- Music videos
- MPEG pre-processing
- Restoration

DVNR - the head of a dynasty

The innovative and complex algorithms originally developed for the DVNR are now also available in Digital Vision's award winning DVO software. The user interfaces for the two systems are identical, so if you understand how the DVO systems work, you can be up and running with DVNR within a few minutes. DVNR works at SD, HD and data resolutions with film or video-originated material.

The DVNR range

- DVNR 2k base frame

The image processing tools

- ASC3 ME, film dust and dirt removal
- AGR4 ME, film grain and video noise reduction
- ACP, advanced colour correction
- ZOM, aspect ratio conversion and pan & scan processing
- PP, compression pre-processor
- IE, image enhancer
- BWF, brickwall filter
- ALS, anti-aliasing filter

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Key features

- Industry standard image processor
- 2k operation @ 15 fps via HSDL
- Real time 2k x 1080 DCI format
- Real time SDTV and HDTV operation
- 4:2:2 YUV and 4:4:4 YUV/RGB input/output
- 2D aperture corrector
- Scene change detector
- 3:2 pulldown detector
- Adjustable reblanking
- Cross-conversion between 4:2:2 and 4:4:4 formats
- Time based licensing model

Hardware configuration

A DVNR 2k system consists of an input interface card, an output interface card and hardware processing modules. A processing module consists of a number of generic high-speed image processing boards that can be programmed to perform different tasks.

The DVNR 2k frame can be populated with up to three processing modules. A processing module can be SD only or SD thru 2k:

- SD only module (can be upgraded with additional hardware to a 2k module) for a lower initial investment
- 2k module capable of supporting 2k, HD and SD formats (depending on software licenses)

Image processing tools

All processing tools are already installed in the new system. New and updated tools can easily be downloaded from the Digital Vision website and installed. In order to use the installed tools in a specific DVNR system, matching licence keys have to be available.

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Control

The DVNR comes with Oden, Digital Vision's PC control software for the DVNR range of image processing workstations. Oden is typically used in "set and forget" applications where timecode control is not required. The software will run on a standard PC Windows platform.

Valhall is a highly efficient and easy-to-learn Windows-based control system for event list/timeline control of the DVNR tools. Valhall includes 4 machine VTR/DDR control and is particularly well suited to environments that do not require telecine control.

Control is also available from Pandora and da Vinci controllers.

The DVNR Time Based Licensing Solution

The DVNR licensing model is a new way of helping companies benefit from the DVNR performance while maximising the use of project budgets. With Time Based Licensing (TBL), costs can be matched to the project income. A modest initial investment in the DVNR hardware, ranging from a single SD-only module up to three modules running at 2k, allows the user to offer their clients a wide range of tools and format resolutions while avoiding the need for unmotivated investment. The DVNR tools are then licensed for the length of time required as dictated by the project schedule. Licenses are available in SD, HD and 2K formats ranging from one month up to a year.

Advantages with the DVNR licensing model:

DVNR time-based licence pricing enables customers to factor in the cost of using a DVNR on a project by project basis.

- Facilities with difficulties raising finance can invest in short term licences.
- Facilities planning to move from video based workflows to data based can take full advantage of the latest DVNR technology with minimum financial risk.

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- One processing module can be loaded with any tool, allows full access to the DVNRs tool set but at a very low initial cost.
- Time-based licenses can be purchased over the web 24/7 by credit card, when needed or in advance for future use.
- All functions can be previewed without a valid license, but with an on screen 'unlicensed' message.
- Provides great diversity and flexibility that can be shared between different suites and departments of any facility.

Multiple suite example

The time based licensing model allows the DVNR to be shared between different suites and departments, as a common resource, without the need for engineering effort to physically reconfigure the system.

With a standard routing infrastructure, the operator can access the DVNR in any room and then easily enable the functions to be used (the configuration parameters are stored in the specific suite's controller and are automatically recalled at the start of a session).

The ability to mix licenses for different formats and tools for a variety of suites and activities significantly optimizes investment in your DVNR system.

Want to know more?

For more information regarding Digital Vision products please contact your local sales office or email: Sales@digitalvision.se

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