

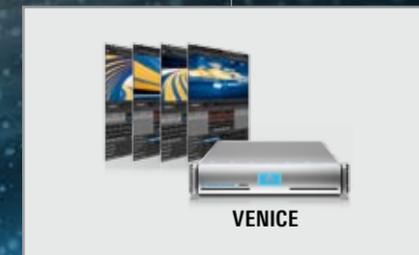
# Explore the Rohde & Schwarz DVS video solutions



# Passion for perfection

## Broadcast solutions

Rohde&Schwarz DVS has become a major player in the broadcast arena to offer new and future-shaping solutions for integrated, heterogeneous, file-based workflows. The ingest and production server for livestudio environments VENICE boasts all the qualities of a classic video server and it also offers users a large number of intelligent options to empower both file-based and baseband workflows. Joining the Rohde&Schwarz group of companies in 2010 became the foundation for many exciting new ideas possible in file-based broadcasting.



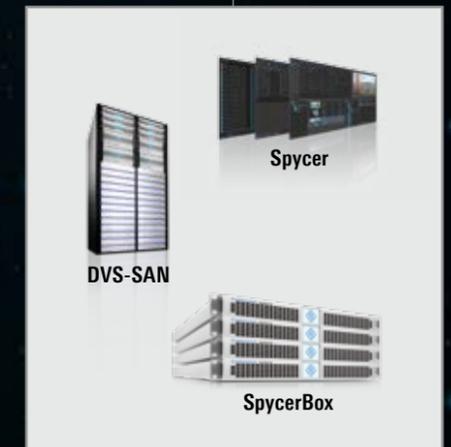
## Post production solutions

Rohde&Schwarz DVS has cultivated a "passion for perfection", and develops unique systems for customized, flexible, high-performance workflows. They enable effortless handling of high quality image data in SD, HD, 2K, and 4K with numerous realtime functions and features. If you need a fast solution for mastering of Digital Cinema Packages or mastering of mezzanine formats like IMF or AS-02 and if you need to prepare RAW camera data for color correction, editing, conforming, and conversion the family of our systems will serve as added value to your workflow.



## Media storage solutions

When you require a customized storage solution with intelligent data management software, turn to the storage solutions of Rohde&Schwarz DVS. With our SpycerBox family and DVS-SAN, we offer cutting-edge rich media storage technology that is tailored to deliver best-in-class performance for formats up to 8K. These reliable solutions adapt easily to the changing requirements of the movie and broadcast industry. Handling storage capacities from terabytes to petabytes becomes a breeze with the integrated Spycer content control software.



## Video boards

The line of Rohde&Schwarz DVS video boards is widely recognized as reliable, rock-solid, high-performance hardware. Made for developers by developers, our video board solutions are always a sure fit for the design needs of

manufacturers. Designed with a diverse and flexible feature set, the powerful in-house developed hardware complements any software solution. Perfect signal processing, coupled with a cutting-edge feature set, make the boards an ideal fit for any client requirement.

# Rohde & Schwarz DVS

## Highest Quality

Rohde&Schwarz DVS has established an enviable track record in the broadcast, professional film and post production markets. Specifically developed and manufactured for these markets, the company's innovative hardware and software have been used for the production of numerous popular TV series, Hollywood blockbusters and in digital cinema. With our ingest and production server for live studio environments VENICE, we are redefining broadcast workflow efficiency. Manufacturers all over the world integrate our video boards into their high-end products to fuel first-class digital film and video processing. Award-winning products like our mastering station CLIPSTER and the innovative Spycer data management solution underline our exceptionally high-quality standard for each and every one of our solutions.

# Our core business

## High-performance solutions for professional workflows

Renowned for its longstanding expertise in high-performance video technology, Rohde&Schwarz DVS meets the requirements of the post production and studio broadcast markets with advanced solutions and future-proof workflows. Looking to boost the efficiency of your workflow and optimize your creative output? With our powerful technology, you can both increase productivity and expand the services you currently offer.

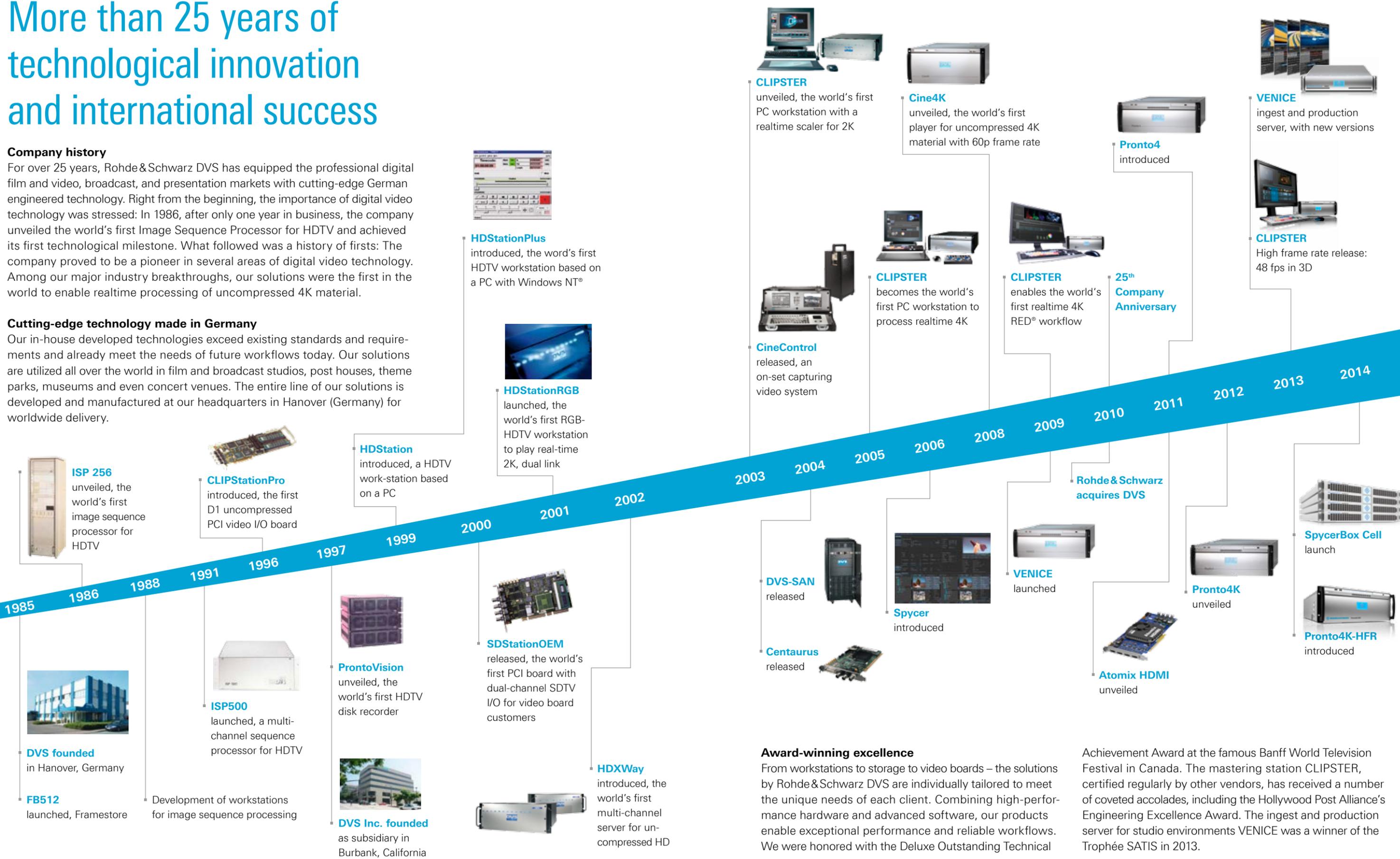
# More than 25 years of technological innovation and international success

## Company history

For over 25 years, Rohde & Schwarz DVS has equipped the professional digital film and video, broadcast, and presentation markets with cutting-edge German engineered technology. Right from the beginning, the importance of digital video technology was stressed: In 1986, after only one year in business, the company unveiled the world's first Image Sequence Processor for HDTV and achieved its first technological milestone. What followed was a history of firsts: The company proved to be a pioneer in several areas of digital video technology. Among our major industry breakthroughs, our solutions were the first in the world to enable realtime processing of uncompressed 4K material.

## Cutting-edge technology made in Germany

Our in-house developed technologies exceed existing standards and requirements and already meet the needs of future workflows today. Our solutions are utilized all over the world in film and broadcast studios, post houses, theme parks, museums and even concert venues. The entire line of our solutions is developed and manufactured at our headquarters in Hanover (Germany) for worldwide delivery.



**ISP 256**  
unveiled, the world's first image sequence processor for HDTV

**CLIPStationPro**  
introduced, the first D1 uncompressed PCI video I/O board

**HDStation**  
introduced, a HDTV work-station based on a PC

**HDStationRGB**  
launched, the world's first RGB-HDTV workstation to play real-time 2K, dual link

**HDStationPlus**  
introduced, the world's first HDTV workstation based on a PC with Windows NT®

**CLIPSTER**  
unveiled, the world's first PC workstation with a realtime scaler for 2K

**Cine4K**  
unveiled, the world's first player for uncompressed 4K material with 60p frame rate

**VENICE**  
ingest and production server, with new versions

**Pronto4**  
introduced

**CLIPSTER**  
High frame rate release: 48 fps in 3D

**CineControl**  
released, an on-set capturing video system

**CLIPSTER**  
becomes the world's first PC workstation to process realtime 4K

**CLIPSTER**  
enables the world's first realtime 4K RED® workflow

**25<sup>th</sup> Company Anniversary**

**DVS founded**  
in Hanover, Germany

**ISP500**  
launched, a multi-channel sequence processor for HDTV

**ProntoVision**  
unveiled, the world's first HDTV disk recorder

**SDStationOEM**  
released, the world's first PCI board with dual-channel SDTV I/O for video board customers

**DVS-SAN**  
released

**Spycer**  
introduced

**VENICE**  
launched

**Pronto4K**  
unveiled

**SpycerBox Cell**  
launch

**FB512**  
launched, Framestore

Development of workstations for image sequence processing

**DVS Inc. founded**  
as subsidiary in Burbank, California

**HDXWay**  
introduced, the world's first multi-channel server for uncompressed HD

**Centaurus**  
released

**Atomix HDMI**  
unveiled

**Pronto4K-HFR**  
introduced

**Award-winning excellence**  
From workstations to storage to video boards – the solutions by Rohde & Schwarz DVS are individually tailored to meet the unique needs of each client. Combining high-performance hardware and advanced software, our products enable exceptional performance and reliable workflows. We were honored with the Deluxe Outstanding Technical

Achievement Award at the famous Banff World Television Festival in Canada. The mastering station CLIPSTER, certified regularly by other vendors, has received a number of coveted accolades, including the Hollywood Post Alliance's Engineering Excellence Award. The ingest and production server for studio environments VENICE was a winner of the Trophée SATIS in 2013.

# Our solutions to enhance your workflows

## VENICE



## Broadcast solutions

### Highly-optimized file-based TV production workflows

With our broadcast product line, we redefine broadcast workflow efficiency. Rohde&Schwarz DVS enables broadcasters to migrate from an existing SDI infrastructure to an efficient file-based workflow easily. Our broadcast systems boast all the qualities of a classic video server, offering a large number of intelligent options to empower both file-based and baseband workflows.

- ▮ Studio production/live record
- ▮ Editorial file creation/preparation

## CLIPSTER/Pronto family



## Post production solutions

### The high-speed backbone for your content preparation and mastering workflow

Our post production solutions are designed to provide precisely what you need for your workflows to be profitable. Both the design and development of our products are based on years of know-how and expertise in the field, granting you the confidence that only comes from proven experience. Our in-house built video systems are ready-to-use equipment for immediate integration into your post production workflow.

- ▮ Digital film
- ▮ Presentation
- ▮ Post production from HD to 4K
- ▮ DCI (Digital Cinema Initiative) Mastering

## SpycerBox family



## Storage solutions

### Versality meets performance

Rohde&Schwarz DVS offers a variety of tailored storage solutions. Focused on your individual demands, we develop custom solutions including storage area networks (SAN), near-line attached storage (NAS), and back-up for resolutions of 8K or more. With our award-winning Spycer data management software, we offer an array of features for browsing and editing image data.

- ▮ Post production
- ▮ Studio production solutions
- ▮ Presentation

## Video boards



## Video board solutions

### Extreme reliability – DVS video hardware

With our video boards, Rohde&Schwarz DVS offers superior hardware to meet the specific design requirements of A/V system manufacturers. These high-performance boards provide highly reliable I/O and processing for any level of resolution and any format for numerous A/V applications. Made for developers by developers and even supported by developers, our video board solutions are always a sure fit for the design needs of manufacturers.

- ▮ Broadcast
- ▮ Post production

# Broadcast solutions High efficiency in studio production

## The ingest and production server for studio environments

VENICE is a future-ready ingest and production server for highly optimized file-based TV production workflows. VENICE manages classic video server tasks such as HD-SDI ingest and studio playout combined with intelligent file-based features like file ingest, transcoding and media transfer operations. Especially suited to facilitate content ingest and distribution as well as studio production, VENICE will help you to optimize your workflow.

To sum it up: VENICE's bridge-building capabilities not only gave the ingest and production server its name, they also form the basis for its ability to integrate seamlessly into any infrastructure.

## Centralized content ingest and distribution

- | Integrated control software provides full control over up to 12 channels, including scheduled ingest
- | Instant editing of time-sensitive content just a few seconds after the ingest has started
- | Proxy file generation parallel to hi-res ingest
- | Integrated file ingest of P2 and XDCAM® media including metadata editing
- | Transcoding capabilities for file distribution and contribution, support of latest file formats such as AS-11, the subset of the MXF file format for delivery of finished programming, etc.

## Studio production

- | Comes with user-friendly GUI for program and multi-camera ingest as well as sophisticated multi-channel studio playout
- | Enhanced protection for high-value content thanks to dual-recording feature
- | Breaking news coverage: Content can be played out while it is still being transferred from production storage or proprietary systems such as Avid ISIS®/Interplay®.
- | Enhanced security for live studio production: Redundancy setup with client mirroring
- | Easily adaptable to changed production environments thanks to versatile channel assignment and configuration

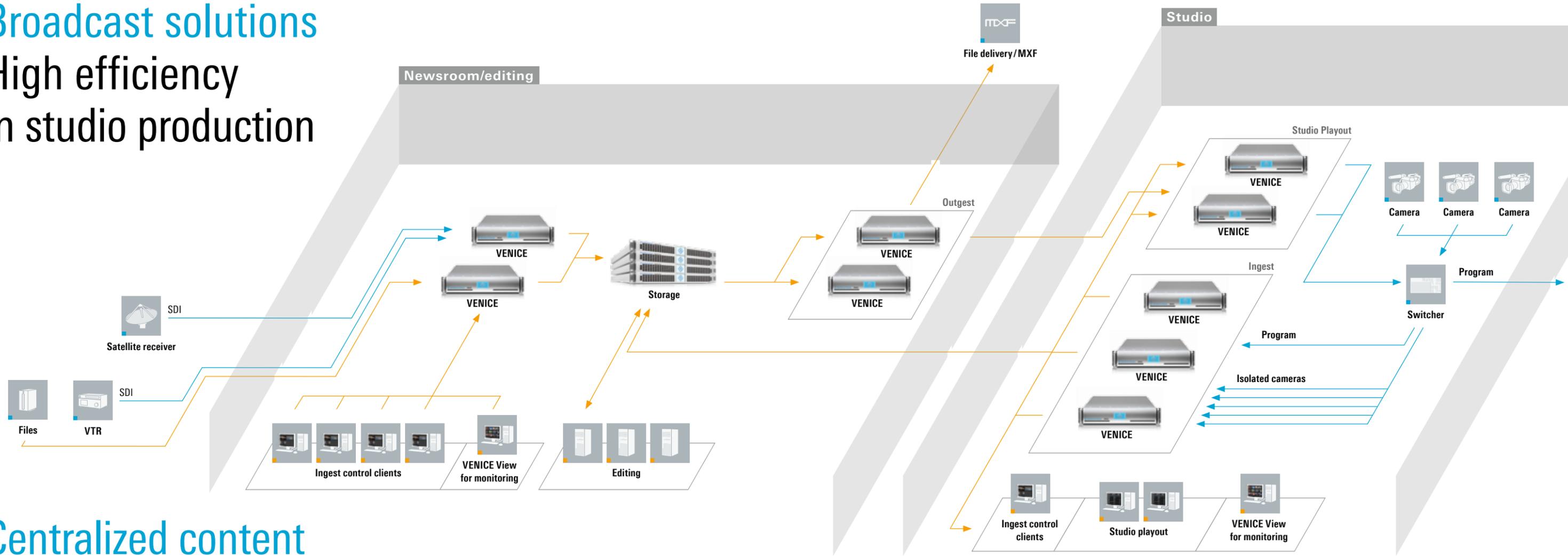
## More enhanced features:

- | VENICE builds bridges between different production environments thus allowing content to be moved very fast
- | Flexibility thanks to easy and individual configuration of each channel
- | Largest variety of supported production formats, such as XDCAM®, DNxHD®, AVC-Intra, ProRes and XAVC
- | Easy-to-use, intuitive software package: Its browser-like look and feel enables editors to immediately get to work
- | Extensive bridge to Avid environments with Avid ISIS® and Interplay® production asset management (PAM) allows content ingest and outgest
- | Support of innovative interfaces such as FIMS (Framework for Interoperable Media Services) and MOS as well as traditional ones such as VDCP



# Broadcast solutions

## High efficiency in studio production



# Centralized content ingest and distribution

With its ability to handle baseband and file ingest, its format independent SDI video channels, its powerful metadata handling and proxy file generation as well as the large number of other features, VENICE is the ideal foundation for centralized content ingest. The integrated hardware scaler for up- and down-conversion in real time makes sure that your material is available in the resolution needed. Its native codec variety and its openness provide users with maximum flexibility. VENICE accommodates each and every scenario – even mixed environments with Avid Media Composer®, Apple Final Cut Pro® or Adobe® Premiere®.

### Distribution and transfer

VENICE helps you to prepare and distribute content efficiently. The production server allows smooth and fast file conversion (transcoding and transwrapping) as well as rough-cut-editing for content delivery. Moreover, finalized contributions can easily be transformed into deliverable formats such as AS-11.

### Efficient production in Avid environments

The Avid Workflow Option allows to realize fast user-friendly workflows with Avid's shared storage ISIS® and the production asset management Interplay®. HD-SDI sources and their metadata can be ingested directly without detours into ISIS® with Interplay® check-in. The Avid Workflow Option also provides the opportunity to directly ingest file-based media from Panasonic's P2 and Sony's XDCAM® into ISIS®/Interplay®. Both signal and file ingest support frame-chase editing in Media Composer® enabling immediate browsing and editing of the content. The new outgest functionality facilitates the fast outgest of clips and sequences out of Avid ISIS® and Interplay® for immediate playout and file distribution: Sequences containing a variety of audio and video clips are intelligently stitched together using enhanced transwrapping technology to ensure a fast transfer and immediate playout – especially helpful for the coverage of breaking news.

# Live studio production

Now you just need one single system to streamline your workflow: VENICE. With the ingest and production server, you can comfortably combine several production steps. In addition to the hi-res ingest, proxy files can be created in parallel to meet proxy file-based workflows. Thanks to its dual-destination recording feature, VENICE helps you to protect your valuable content. With VENICE you will never miss a single shot again. Thanks to its versatile setup, its large variety of supported codecs and its flexible channel configuration, VENICE can quickly respond to the changed requirements of your customers.

### Multi-camera ingest

VENICE paves the way for multi-camera ingest – thus simplifying live studio production. The integrated software GUI is easy to use and allows multi-camera recording in a

comfortable way. Operators can save complete production scenarios with all needed servers and settings thus facilitating the production of weekly returning shows. The scenario then contains all acquired channels, modes, projects and presets of the channels. Dual recording function also stands for enhanced redundancy: One channel can now record to two different storage systems, such as production and internal storage.

### Studio playout

The intuitive GUI is specifically suited to make your life easier in hectic live situations. VENICE allows you to comfortably control multiple channels at the same time. A redundant setup is made possible by the mirroring of clients. In combination with the Avid Workflow Option, content can be directly played out from Avid ISIS®/Interplay®.

# Mastering Excellence



Our post production flagship enables you to perform the steps for content preparation and mastering jobs on a single system – steps that would otherwise need to be distributed over several products. This is why CLIPSTER is highly acclaimed for its mastering excellence.

- ▮ Utilize a comprehensive mastering toolset for mezzanine formats like IMF, AS-02 and Digital Cinema (DCI)
- ▮ Conform and edit SD, HD, 2K and 4K material in real time
- ▮ Process uncompressed data, such as DPX, OpenEXR, TIFF 8/10/12 or 16 bit in real time
- ▮ Approach your workflow from a complete format-independent (compressed, uncompressed, color spaces, bit depth, resolution, file formats) perspective
- ▮ Generate compressed formats for deliverables in high speed
- ▮ Allow for content preparation of RAW camera data for the following NLE or color grading process



Among other prestigious prizes, CLIPSTER was honored with the Hollywood Post Alliance's Engineering Excellence Award.



Part of screenshots:  
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[mango.blender.org](http://mango.blender.org)

# CLIPSTER

## Process full 4K RAW files

Shooting in RAW mode provides the highest quality content and delivers the utmost flexibility from acquisition through post production.

The CLIPSTER hardware accelerator board easily decodes, demosaics, and processes RAW content faster than realtime.

Moreover, it provides the ability to work with a full resolution RAW file in 4K 12 bit RGB mode just like RED ONE®, RED EPIC®, ARRI ALEXA, Sony F65/F55/F5 cameras or Canon. Simply drag and drop the RAW files directly into the CLIPSTER timeline and press "play". No pre-processing or background rendering is required. In addition to the video stream, the audio and all of the metadata are utilized. A sophisticated toolset lets you view the camera parameters, enabling ultimate picture control to achieve just the right look.

## RAW to deliverables in high speed

- ▮ Realtime demosaicing and decoding of RAW files enable easy DI workflows with RED®, ARRI, Sony, Phantom, Canon or Silicon Imaging camera content
- ▮ Control the image processing requirements for developing RAW data
- ▮ Quickly create high-quality RAW deliverables with comprehensive burn-ins from RAW files
- ▮ Sophisticated conforming of RAW files
- ▮ Support of all professional compressed formats like Apple ProRes, Avid DNxHD®, Sony, Panasonic and others
- ▮ Final Cut Pro® XML and Avid® ALE support

## 3D stereoscopic content

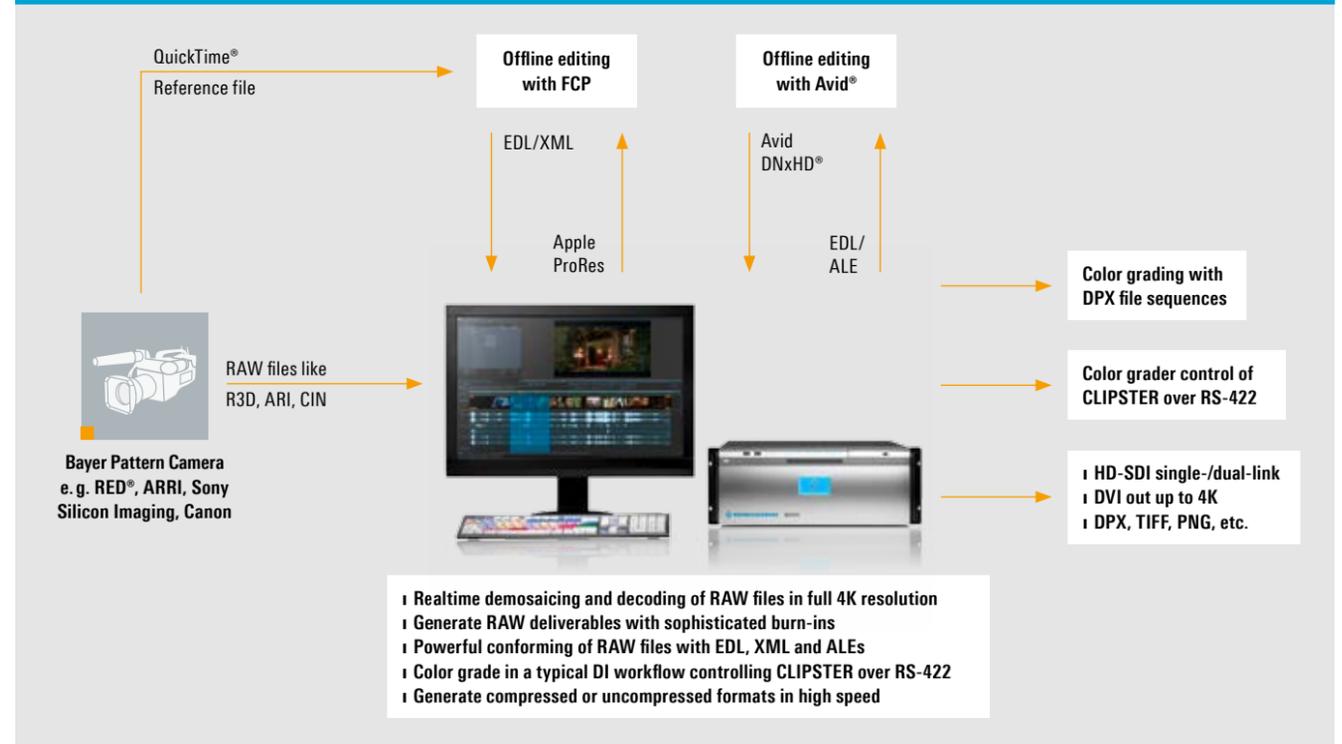
- ▮ 3D stereoscopic video tracks in the timeline
- ▮ Support of all major stereoscopic methods using two streams for left and right eye
- ▮ 3D stereoscopic toolset to control the depth manually or automatically
- ▮ Analysis and validation of 3D depth using 3D depth histogram and other exceptional tools
- ▮ Anaglyph-emulation for 3D depth control provided in video overlay
- ▮ Simultaneous playout of two video streams gives you control over 3D depth on screen
- ▮ Sophisticated conforming of stereoscopic content

## IMF and AS-02 mastering for distribution or archival

- ▮ High-speed JPEG2000 encodes MXF-wrapped Rec 709 at 500 Mbit/s
- ▮ Support of IMF and AS-02
- ▮ Subtitle and closed captions support including conversion
- ▮ Sizing control for distribution into various aspect ratios
- ▮ Ease of use thanks to IMF wizard and efficient toolset
- ▮ High-speed generation of compressed formats for delivery and archival
- ▮ SOAP interface (Simple Object Access Protocol) provides automated control from third-party applications



## RAW deliverables in CLIPSTER



# Fuze

## The first choice for DCI Mastering

Fuze is a powerful Digital Cinema delivery system for DCI Mastering for material up to 4K, including HFR (high frame rates), Dolby Atmos™, D-BOX or 3D. Fuze handles stereoscopic content just as easily as if it were 2D, and creates encrypted Digital Cinema Packages. With our unique hardware, the entire DCP creation process is accomplished in high speed.

Fuze provides subtitling in 4K and is equipped with a number of features, including a flexible editing tool, scaling, color space conversion, and encoding into compressed formats. Gain tremendous flexibility for your workflow with the intelligent SOAP interface. Fire up your ideas with Fuze.

- | Stereoscopic DCI Mastering guided by a wizard
- | Automatic interleaving (left and right eye) of two video streams
- | Quality control of 3D stereoscopic DCPs provided directly in Fuze
- | Subtitle emulation displays 3D subtitles in Fuze and over the HD-SDI interfaces
- | 3D subtitling with automatic depth detection and DCI subtitle depth animation support
- | Dolby Atmos™ and D-BOX support
- | Fuze offers up to 4K DCI encoding and supports high frame rates and high bit rate modes even exceeding the DCI standard

# Pronto Family

## The benchmark of disk recorders and players

The Pronto family consisting of Pronto4K-HFR, Pronto4K and Pronto4 HDMI effortlessly handles the recording and playout of uncompressed and compressed content in real time. With an unparalleled number of supported file formats, their realtime format adjustment and playout of stereoscopic material, the members of the Pronto family are the most versatile disk recorders and players on the market.

They are also suitable for presentations, e. g. at exhibitions, and as a player for video walls or LCD displays where they can handle formats up to 4K. Pronto4K-HFR, the youngest family member, even allows for uncompressed material up to 4K/ 60 p RGB 12 bit to be played out over 4x Display-Port 1.1. Various conforming and editing tools make the Pronto systems perfect for last minute changes on location. An array of options enable you to select the features you need and perfectly integrate the Pronto system into your existing workflow to achieve the desired image formats, interfaces, and color depths. The synchronization of multiple Pronto disk recorders allows the realization of demanding multi-screen presentations. Its integrated high-performance SSD storage in RAID-5 configuration brings together highest data rates and utmost ruggedness.

- | Playout of 4K 3D/stereoscopic material with 60 fps per eye\*
- | Playout of 4K up to 120 fps in RGB 4:4:4 10bit\*
- | Format adjustment in real time\*
- | Process both compressed and uncompressed SD, HD, 2K and 4K material in real time
- | Support of uncompressed file sequences like DPX, TIFF, BMP, PNG and others
- | Support of compressed formats in QuickTime® or MXF (e. g. DNxHD®, AVC-Intra 50/100, DVCPRO® or XDCAM®)
- | Gain maximum flexibility for importing content, with more than 100 supported graphic formats
- | VTR emulation and timeline features for efficient handling of clips in different file formats
- | Use the numerous editing and conforming features
- | Realize large-screen projections with the multi-device feature
- | RAID-5 protected storage



# SpycerBox Family

## The perfect storage solution for your media

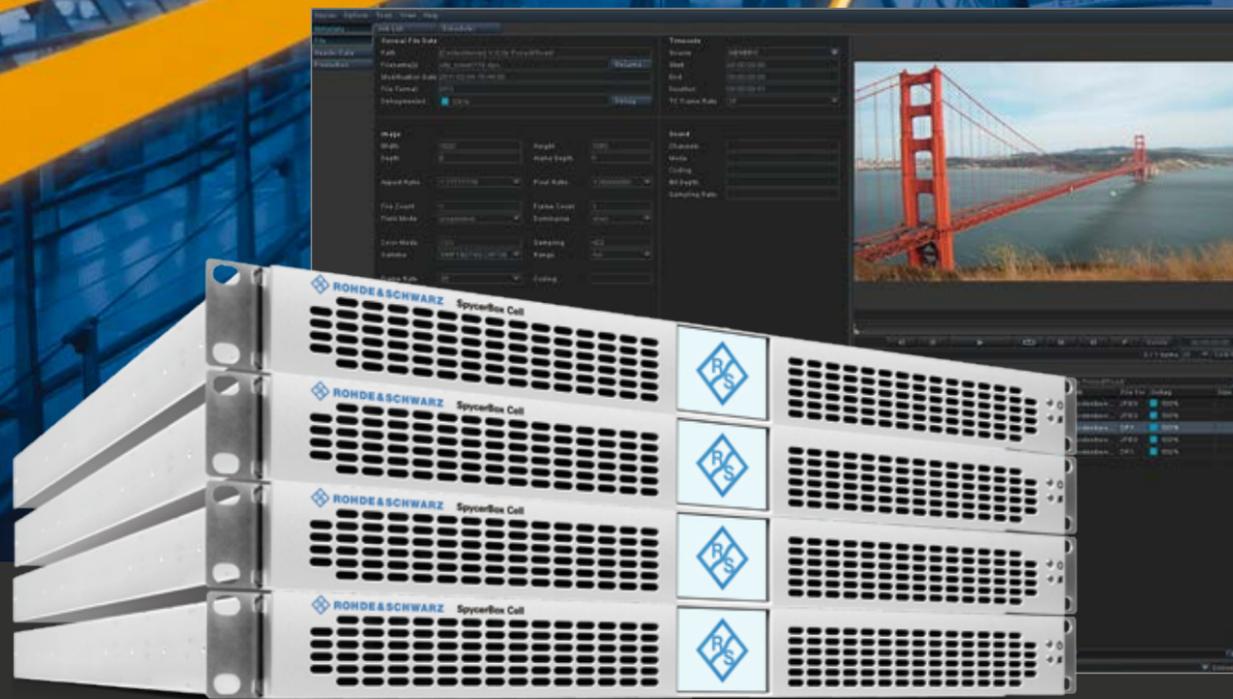
SpycerBox is Rohde & Schwarz DVS's flexible and modular storage solution. Improve workflow speed and efficiency by integrating SpycerBox into your post production or broadcasting networks as an ultra-fast and reliable storage system. Increase the performance of file-based workflows, and gain flexibility with SpycerBox, used as a NAS solution, a SAN configuration or a combination of both. Thanks to its web-based GUI SAN Remo, you can easily configure and monitor your SpycerBox infrastructure.

## High availability

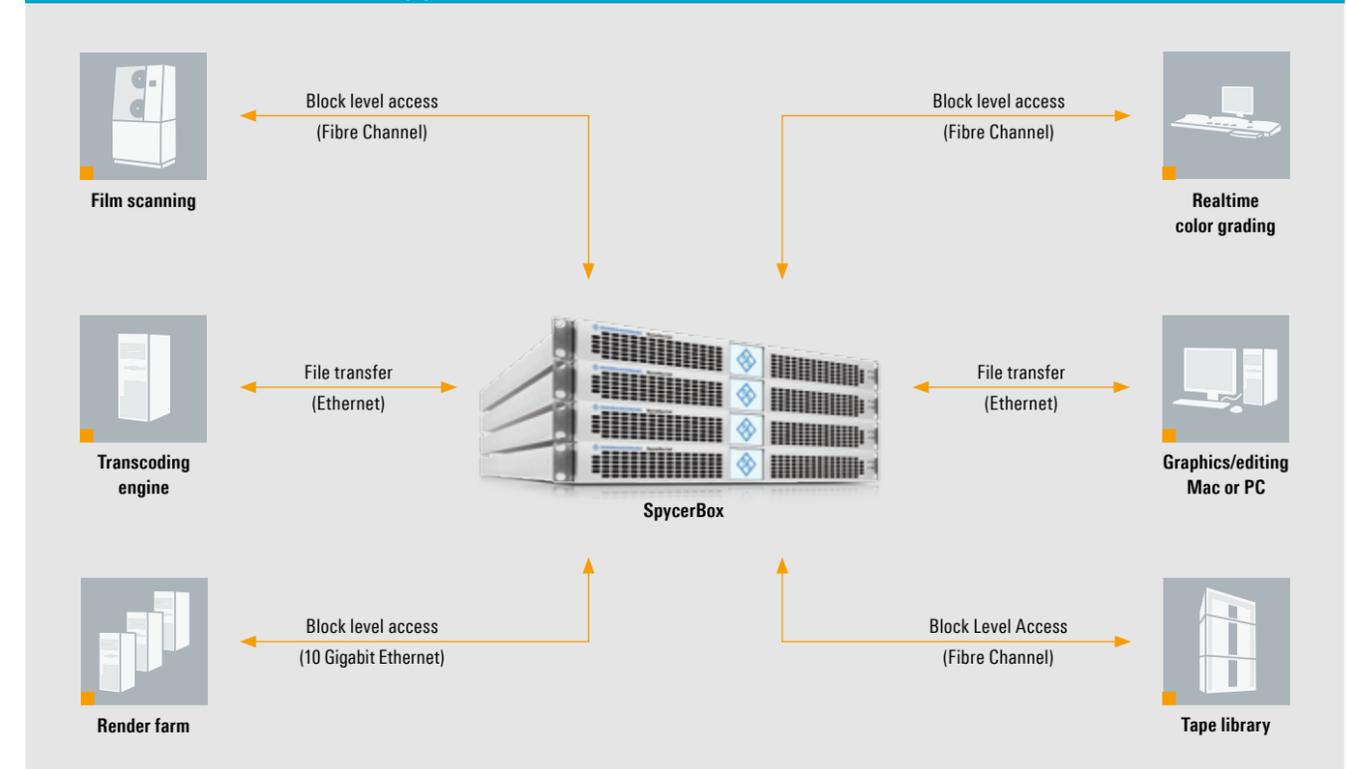
SpycerBox integrates into any storage environment thanks to its countless optional interfaces. In critical workflows in particular, where ultra-reliable and parallel mirroring – even in separate locations – of all data is demanded, SpycerBox is the ideal solution thanks to its high-availability feature set. SpycerBox is also perfect for direct inclusion in disaster-recovery strategies: SpycerBox's mirrored configuration prevents total outages and in doing so guarantees uninterrupted operation while ensuring performance remains unaffected.

All data is synchronized immediately – with almost zero latency – so it is always identical both on the primary and the secondary SpycerBox. The instant-failover function provides a high level of data reliability – especially in critical workflows such as 24-hour TV/video operations.

- ! **Unique SAN and NAS performance in heterogeneous networks**
- ! **Collaborative realtime storage for Windows®, Mac OS® and Linux® clients**
- ! **Web-based GUI SAN Remo to configure and monitor your SpycerBox infrastructure**
- ! **State-of-the-art SSD technology**
- ! **Feature-rich Spycer data management software**
- ! **SAN storage (RAID-5), metadata server and file server in one 5U chassis**
- ! **Multiple interface options available to integrate**
- ! **Remote control capabilities**



## Media infrastructure with SpycerBox

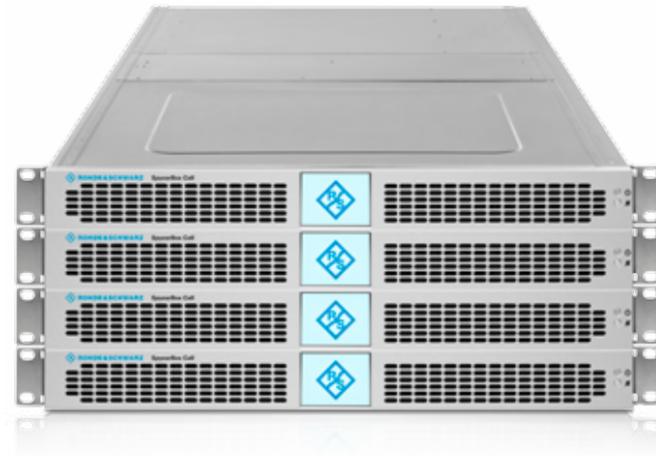


# SpycerBox Cell

## Scalability at its maximum

With an innovative and powerful design that combines maximum storage density with system redundancy for absolute reliability, SpycerBox Cell is a stand-out storage solution for demanding media applications in movie and TV production environments. The 1U system is equipped with 30 hot-swappable drives arranged on a tray-based carrier system, allowing for removal and replacement during operation. These capabilities set SpycerBox Cell apart from other storage systems: never before have 30 drives been placed in a one-height unit system while also enabling hot-swapping of drives. Designed with post production houses, digital cinema houses and broadcast studios in mind, SpycerBox Cell supports all uncompressed and compressed formats in SD, HD, 2K, 4K, 8K – or more. Each chassis has a superior performance of 3 GB/s and a unique SAS interconnection to enable clustering and cascade ability.

- ▮ **Central production high performance storage with 3 GB/s per chassis**
- ▮ **Supports uncompressed and compressed formats up to 8K or higher**
- ▮ **Modular storage concept, growing with your demands**
- ▮ **Maximum density: 1U chassis with compact PCIe backplane comprising 30 drives**
- ▮ **Tray-based HDD carrier system enables drive hot-swap**
- ▮ **Redundant concept with hot swappable components**
- ▮ **Easy maintenance via field-replaceable units**
- ▮ **Available as SAS, SATA or SSD version**
- ▮ **Unique SAS switching mechanism for failover**



## SAN Remo configuration management

The web-based GUI will help you to configure and monitor the infrastructure of your SpycerBox systems. SAN Remo allows for the comfortable configuration of your compact storage solutions' infrastructure and software services. Obtain an overview of your hardware status as well as of performance and bandwidth parameters.



## Connection methods

- ▮ **File sharing with NFS**
- ▮ **Samba for heterogeneous network architectures**
- ▮ **SpycerLink between Spycer-equipped systems**
- ▮ **Fibre Channel or Ethernet SAN connection**
- ▮ **Variety of hardware interfaces available (Fibre Channel, 10 or 40 Gbit/s Ethernet)**

# DVS-SAN

## The individual storage solution

The DVS-SAN is the ultimate high-end storage solution for post production workflows. Post production facilities generate enormous amounts of data daily, with hundreds of terabytes and even petabytes being stored. The DVS-SAN handles hundreds of connected clients effortlessly, and can provide data to a wide variety of processing systems within the infrastructure. Use the DVS-SAN as a reliable, extremely fast storage system for your critical film, video, and CG data. The innovative Spycer data manager helps you organize and move large volumes of data with ease.

## Customized and modular

As the need for storage increases over time, Rohde&Schwarz DVS's custom storage solutions are designed to scale to your requirements. We offer powerful entry level, mid-size and enterprise class storage solutions to meet a wide variety of requirements, while providing the modularity to adapt to each and every infrastructure present. Benefit from our years of SAN expertise and let us help you configure a cutting-edge storage system specifically tailored to your workflow needs.

- ▮ **Protected with RAID-5/6 or mirroring**
- ▮ **Heterogeneous infrastructures for maximum flexibility**
- ▮ **Scalable storage based on individual requirements**
- ▮ **Realize a collaborative workflow using DVS-SAN**
- ▮ **Central storage for SD, HD, 2K and 4K realtime post production workflows**
- ▮ **Optimized for file sequences like DPX or TIFF**
- ▮ **Optimized for compressed formats to serve hundreds of clients**
- ▮ **Gain easy access to the storage with content manager Spycer**
- ▮ **Manage your DVS-SAN with a sophisticated software toolset**



# Spycer

## The complete content control

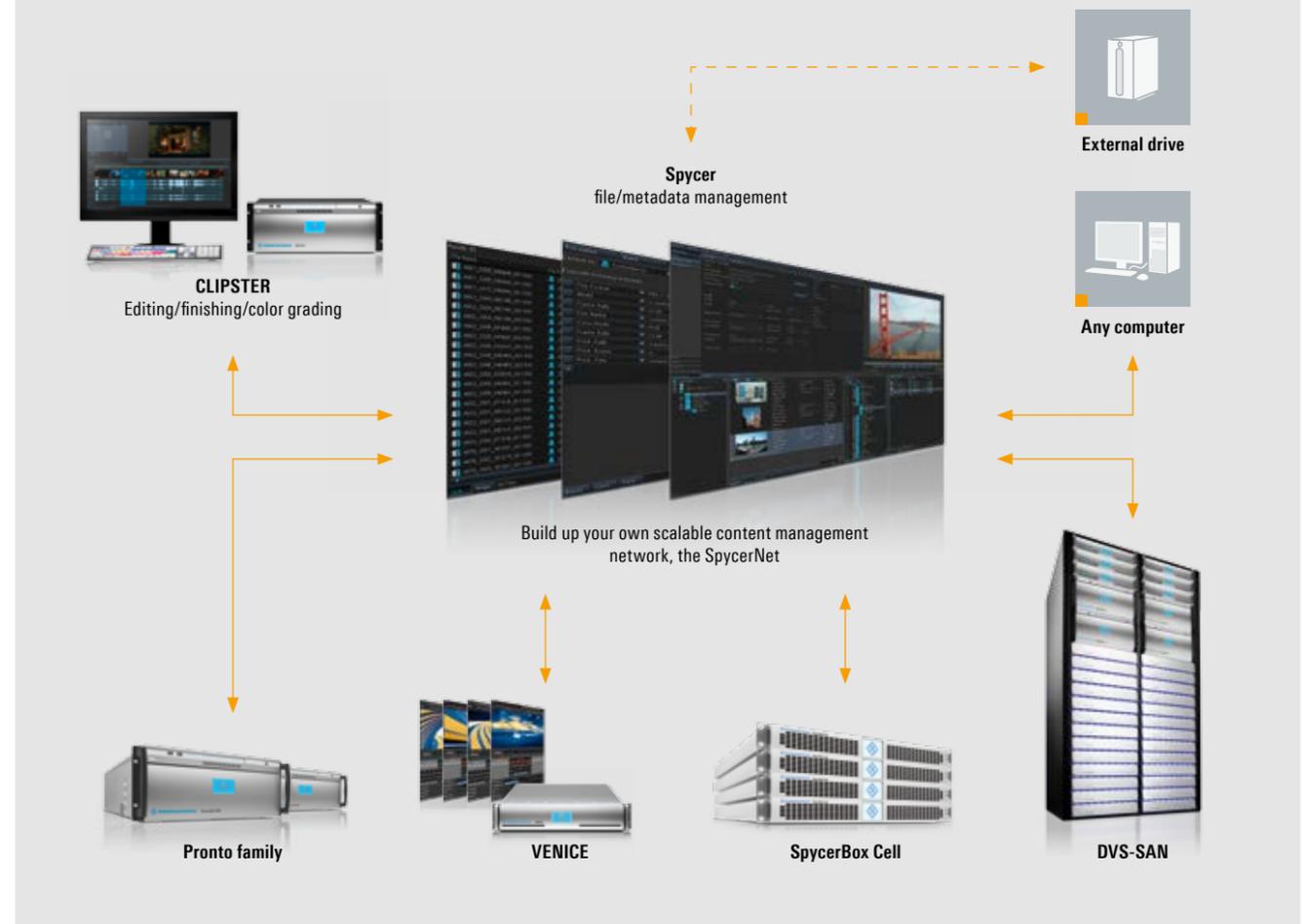
Large post production houses and broadcast networks require new and innovative solutions for handling immense amounts of film data. Spycer lets you create a transparent network that makes the contents of all connected systems available for viewing and editing by means of a wide array of tools. The intelligent software lets you effortlessly manage all of your content and corresponding metadata, and removes the uncertainty of finding data in complex networks. An extensive set of search parameters helps you find image data, video and audio clips, and metadata with confidence. We designed Spycer as an open platform for easy integration into existing structures to accelerate your workflow.

- | Preview and play out your files and metadata located anywhere in your network
- | Correct and edit the names of file sequences in one single step
- | Edit and amend the metadata in the file headers

- | MXF support for broadcast content like DVCPRO®, XDCAM® or DNxHD®
- | High-speed copying features help you to avoid nerve-racking process delays
- | Combine Spycer with your applications using the SOAP-API



## Spycer environment



# Extremely Reliable Video hardware from Rohde & Schwarz DVS



## Video boards

Utilize our video boards to realize high-performance video and cinema applications. I/O cards (input/output) letting you run the desired features on your systems, our boards may be used to enable post production or to power presentation servers.

Video boards from Rohde&Schwarz DVS are suitable for every workflow: Atomix HDMI and Atomix LT are a sophisticated family of video boards with 3 Gbit/s SDI input and output as well as embedded, analog and AES/EBU audio. Atomix HDMI supports all formats from SD up to 2K in stereo and 4K in real time. Providing a powerful processing pipeline with programmable up- and downscaler 3D LUT, 1D LUT and color space converter, Atomix HDMI features four HDMI ports and targets high-end applications.

Atomix LT focuses on 2K, HD and SD formats with a programmable up- and downscaler and a 1D LUT. A programmable EE with hardware watchdog between SDI input and output makes our boards ideal for live equipment. Achieve your short time to market benchmark by utilizing our highly experienced service team. Join the group of major industry leaders who have already gained success by implementing the video boards from Rohde&Schwarz DVS into their customized DI solutions.



Atomix HDMI



Atomix LT



Atomix LT 4 BNC



## Service

Offering superior service for our entire product portfolio is integral to the Rohde & Schwarz DVS philosophy. Our support and service team is comprised of engineers who consider first-class, professional customer service their first priority.

We offer optimum support and service, with service packages tailored to clients' specific needs. Our service team can assist onsite or perform services quickly and reliably via remote control. Rohde & Schwarz DVS also has a service website, complete with detailed technical documentation to provide current updates, upgrades, and relevant information.

Our services reflect the quality of our products: Our clients benefit from individualized support and reliable service.

**Our service team is available to you at [service.dvs@rohde-schwarz.com](mailto:service.dvs@rohde-schwarz.com)**

## Training

Learn in-depth about your product from Rohde & Schwarz DVS. With our comprehensive training program, we offer the opportunity to become completely at home with your equipment. We're also happy to support you with the implementation and setup of your system.

Our authorized Education Center offers individual training programs onsite and is ready to assist you with relevant information on each workflow. We'd also be happy to welcome you at the Rohde & Schwarz DVS headquarters for a hands-on training session with your new equipment. You will receive concise training courses for various product updates, allowing you to immediately familiarize yourself with new developments.

Our professional training courses provide you with the detailed knowledge to make the most of your equipment.

**Ask about our training packages at [training.dvs@rohde-schwarz.com](mailto:training.dvs@rohde-schwarz.com)**

### **About Rohde & Schwarz DVS**

For more than 25 years, Rohde & Schwarz DVS GmbH has been very successful in the professional film, video post production and broadcast markets. The specially developed and manufactured hardware and software are applied to the production of popular TV series, Hollywood blockbusters and in Digital Cinema. R&S®CLIPSTER was the first system in the world to make realtime 4K processing possible. The future-proof ingest and production server R&S®VENICE offers a flexible solution for modern, file-based workflows in broadcast environments.

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