

Newsbox HD

fast collaborative digital news for SD and HD

technology that means business



Newsbox HD: fast, collaborative digital news for SD and HD

Newsbox HD is tapeless news: a no compromise, digital and fully-integrated news system that makes hard news easy in SD and HD. Newsbox HD delivers solid ROI and protects that investment for years to come by including HD for free.



Tapeless news

Tapeless news is the future. In the race for viewers, tapeless provides a significant advantage over the competition. Newsbox HD offers the very best in tapeless production. Tapeless eliminates searching for tapes and waiting to access that great shot needed to complete the story. Newsbox HD makes every shot available to all touch points the instant it's ingested and it can be on-air or on the web just seconds later.

HD quality at SD prices

The mix of Quantel technology and off-the-shelf IT that goes into Newsbox HD makes it a great value, open solution. Newsbox HD handles HD and SD with real flexibility. Newly ingested HD material can sit alongside archive SD footage with Newsbox HD automatically handling the mixed formats for editing and playout. HD is the future: it makes sense to invest in a system that allows you to be prepared for the future today. It makes sense to invest in Newsbox HD.

Works out of the box

Newsbox HD makes the transition from analog tape to a digital shared workflow easy, fast and hassle-free. Newsbox HD is not a one-size fits all solution, it is completely configurable and because Quantel designs, manufactures and tests the entire system, it works right out of the box. It's quick to install and the UI is easy to learn, allowing everyone to be productive quickly. Reliability is designed in and Newsbox HD is backed up by QCare, the best support program in the business.

“Purchasing a Newsbox has been a good business move for us. We are able to produce a high quality newscast while operating much more cost effectively.”

Brian Frydenlund, President and CEO, TEAM Group



News drives business

Creating a winning news operation is the objective of all news broadcasters. News drives a significant portion of the station's revenues. Newsbox HD enables broadcast executives to develop a successful and profitable news operation and that builds a solid business.

Newsbox HD for the General Manager

Quantel understands the business of news and knows that different stations have different priorities. Whether the goal is to cut costs, be better than the competition or drive content to the web, Newsbox HD is a fantastic investment. Going tapeless with Newsbox HD means:

- Leveraging staff to create more news stories; faster, better, cheaper
- Delivering content to new media, such as the web, cell phone or PDA

- Increasing efficiency by eliminating non-productive processes such as dubbing
- Being ready for HD without having to reinvest or upgrade before the system is amortized
- Significant savings on support of legacy equipment, such as VTR maintenance

Newsbox HD comes from the same technology family that is already powering ESPN and the BBC. It's a great business decision.



On-air with Quantel at Astro



“Newsbox is a complete system that arrives prepared to create. It is built, tested and ready to go. The price is within the range that a small TV station such as ours can afford, but Newsbox still has all of the facilities we will need in the future.”

Rumen Artarski, Managing Director, TV7

Newsbox HD for the News Director

Great news means great stories and great pictures imaginatively packaged and delivered quickly. It's a tough challenge. Newsbox HD eliminates the bottlenecks and inefficiencies that are traditionally part of making news. Going tapeless with Newsbox HD means:

- All touch points have instant access to every shot with no more waiting for dubs
- Shots can be in the edit suite or on-air seconds after they've arrived
- Anyone can utilize templated graphics to add visual impact to their stories

- Flexible workflow is contagious, and all personnel will benefit from Newsbox HD's flexibility
- Tight integration with the most popular Newsroom Computer Systems (NRCS)
- More creative stories, enhanced story count, and smoother workflow

Newsbox HD empowers news professionals to make better news.

HD: the bigger picture



Newsbox HD for the Director of Engineering

News is the ultimate deadline driven environment – there's no second chance in news. Add the tapeless transition and HD into the equation and news is a real challenge for engineering. That's why Quantel designed and built Newsbox HD. Going tapeless with Newsbox HD means:

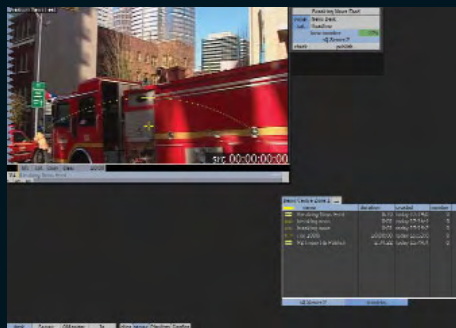
- An install time measured in hours not days or weeks
- Proven technology already in use worldwide, including ESPN, the BBC and local stations
- Reliability through hot swap drives, auto-rebuild and no defragging
- Great mix of broadcast and IT for maximum performance at minimum cost

- HD capable from day one, ready for whatever the HD future holds
- Full support for mixed SD/HD operation; handles aspect ratio conversions automatically and can uprez SD to HD on the fly
- Automatic file delivery direct from the NRCS rundown
- Compatibility with new acquisition formats, such as P2 and XDCAM
- Reduced spending on VTR maintenance

Newsbox HD is from Quantel, the company with a reputation for great engineering and support.

Newsbox HD is about enabling people

The transition from analog tape to a digital collaborative workflow is about much more than technology. It is about people, enabling them to be more creative, more effective and more productive. With Newsbox HD everyone involved in making news can focus less on the technology and more on their contribution to the story or newscast.



In the newsroom

Newsbox HD integrates with the NRCS enhancing the existing skills and experience of the team. Newsbox HD makes life easier in the newsroom and provides journalists the opportunity to get more involved in their story. Going tapeless with Newsbox HD means:

- No time wasted waiting or searching for tapes
- Reviewing shots and stories from the desktop
- Everyone can access all the shots all the time
- Maintaining editorial control as a segment is always available for review

- Journalists can mark up and select shots for the edit suite at their desktop
- A simple user interface makes finding, viewing, selecting and marking shots fast and easy
- Easy repurposing or refreshing of stories

Newsbox HD's scalable and common user interface follows from the newsroom to the creative edit suite making moving between them simple. Newsbox HD eliminates legacy technology and workflow bottlenecks.

In the edit suite

The edit suite is where pictures, VOs, interviews and graphics are combined to tell the story in a dynamic and compelling manner. Newsbox HD provides a choice of on-line editors that make it fast and productive to pull stories together. Going tapeless with Newsbox HD means:

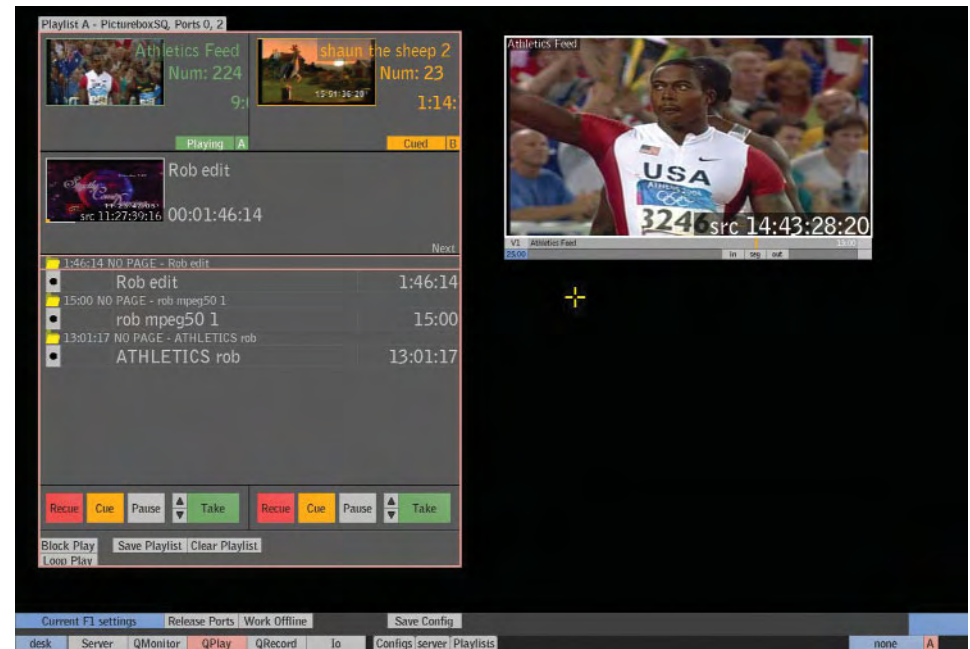
- Saving time by using marked up shots from the newsroom
- Fast timeline editing with industry standard keyboard shortcuts
- Instant mixing of SD and HD on the same timeline
- Quick fix tools instantly fix common problems such as color balance

- Instant tracking or masking of an area within a clip
- Quickly adding high quality templated graphics without tying up a graphic designer
- Easy repurposing or refreshing of stories as metadata and images remain live

With Newsbox HD there's a choice of software only or hardware-assisted editors. Whatever the choice, editing with Newsbox HD is a fast and productive experience.

“Newsbox enables simultaneous access to the same video clip, even if that clip is just a frame. From every touch point the journalist puts the story together, the producer can do a quick V/O and the editor can make a trail for the nightly news all at the same time.”

Doug Loveridge, Production Manager, WRCB



In the control room

After all the work of preparing the newscast, it's now or never in the control room where every second really does count. Newsbox HD was designed for this environment. Its speed and responsiveness make it a vital part of the control room operation. Going tapeless with Newsbox HD means:

- Automatic MOS integration with the NRCS rundown from iNews or ENPS
- A dedicated control panel for manual payout
- Instant recues and running order changes are no problem
- Selecting live shots as they come in and giving production instant access is easy

- Getting stories on air within seconds
- Being first with late breaking news
- Playing mixed SD/HD stories to SD and HD outputs instantly

Newsbox HD is at home in the control room. Newsbox HD presents clips and stories visually and responds instantly to commands thanks to the realtime OS used in the server. When every second counts, count on Newsbox HD.



Technology that means business

Quantel designed Newsbox HD to satisfy the business needs of Broadcasters wanting to transition to digital tapeless working in SD or HD. Newsbox HD perfectly integrates several unique Quantel technologies that deliver effective and affordable workflow.



“The Quantel server-based system has provided us with a strong and flexible platform for future expansion.”

Richard Allingham, Chief Engineer, TWI

Scalability

Newsbox HD is designed around a single code base that supports different levels of toolset across software and hardware platforms.

The key benefits :

- Similar interface across Newsbox HD allowing easy movement between systems
- Similar interface from browse to on-line editing provides choice about how a system is configured
- The interface can run as ActiveX allowing it to appear as part of the NRCS
- Journalists, producers and editors are provided the right tools that can scale to the next level

Integrated Server Architecture (ISA)

ISA™ automatically manages everything that happens within Newsbox HD, managing simultaneous operations such as ingest, viewing, editing and playout. ISA delivers:

- Efficient single server operation minimizing time to air and eliminating the need for separate ingest and playout servers
- Single library across the entire Newsbox HD making finding clips fast and simple
- Automatic creation and linking of browse and broadcast media allowing edits made on the desktop to play instantly to air utilizing high quality broadcast media

FrameMagic

FrameMagic™ is the integral filing system that manages how media is stored in Newsbox HD. FrameMagic is a vital factor in the power and flexibility of Newsbox HD. FrameMagic manages frames not clips and means:

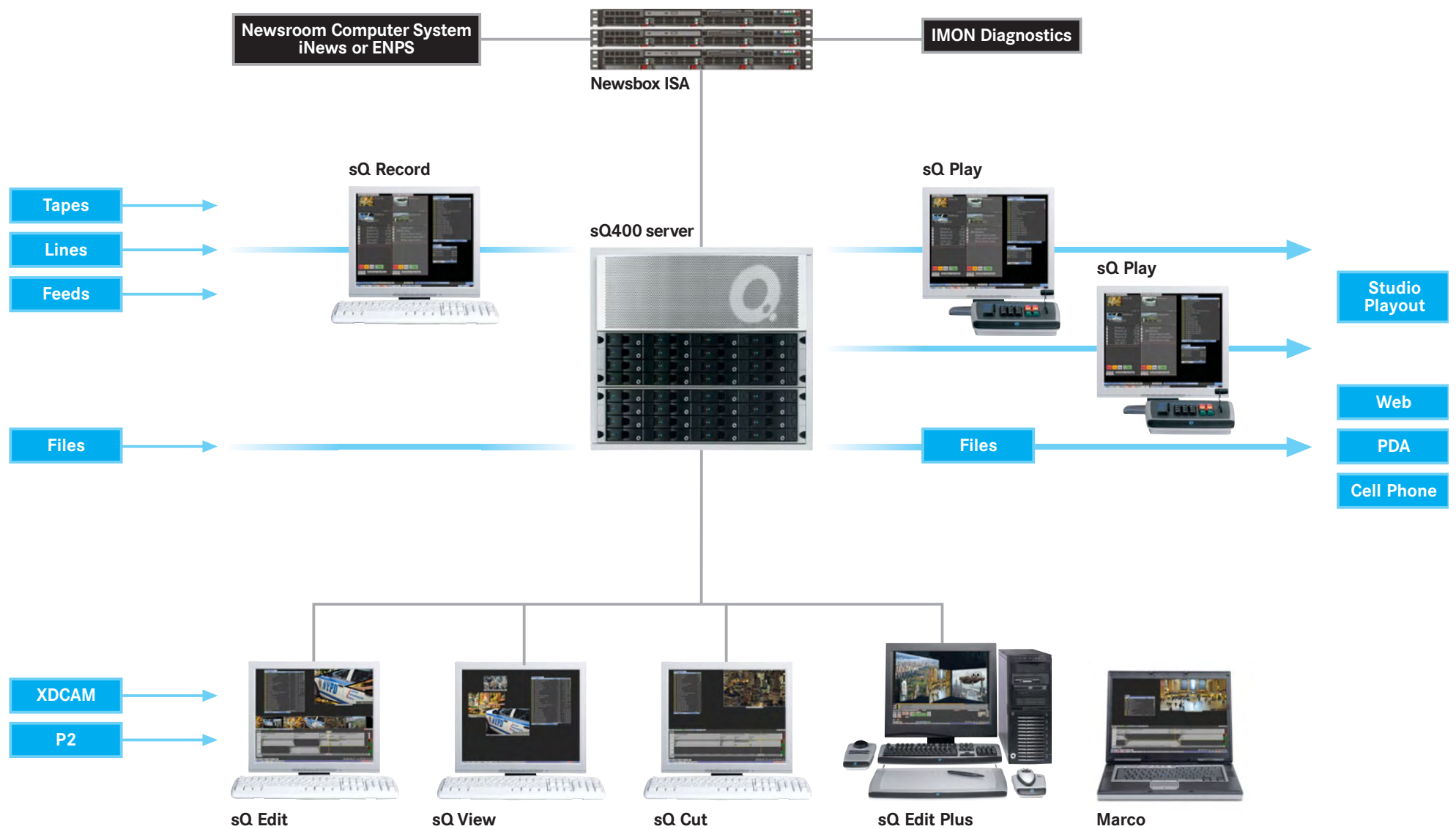
- Material can never be deleted if it is in use by another user
- Material that is not being used can always be deleted without wasting time having to consolidate
- Time to air is minimized as every frame is available as soon as it has been ingested
- Disks are used more efficiently saving time and money

Resolution Transparency

Newsbox HD handles both SD and HD without limitations. Resolution Transparency delivers:

- Server ingests and stores both SD and HD media
- On playout, clips are converted on the fly to the correct SD or HD output format
- The server handles aspect ratio conversion between 4:3 SD and 16:9 HD automatically
- SD and HD clips can be mixed on edit timelines
- Journalists can work on shots without worrying about SD/HD issues

Newsbox HD overview



Under the hood of Newsbox HD

Newsbox HD is built from a number of standard components that can be assembled together in many configurations to meet the differing requirements of different users. Many of these components are also used in the custom Enterprise sQ™ range, providing complete flexibility to grow Newsbox HD in the future.



sQ 400 server

The ingest, editing and playout server at the heart of Newsbox HD. The sQ 400 supports up to 8 video ports each capable of handling SD or HD. The server also has 2 gigabit Ethernet ports that support the editing applications. The sQ 400 uses external Dylan FC arrays for storage and each Dylan FC provides 64 hours of DV100 HD or 200 hours of IMX 30 Mb.

The sQ 400 can support up to 4 arrays which deliver more than 10 days continuous material in HD or over a month of continuous SD! Dylan FC arrays have dual PSUs and keep working in the event of disk failure. Disks can be hot swapped and rebuilds are automatic. Defragging is never required.

sQ 200 server

Used as a playout server in Newsbox HD the sQ 200 has up to 4 play ports each capable of SD and/or HD. The internal storage is fully protected against disk failure, provides 30 hours of DV100 HD or 100 hours of IMX 30Mb. The disks can be hot swapped and rebuilds are automatic. No defragging is required.

Newsbox ISA

The Newsbox ISA provides the management for the complete Newsbox HD system. It is provided pre-configured on three dedicated 1U PCs. Two of the PCs provide redundancy in the event of a failure and the third hosts the IMON monitoring package as well as the license manager. IMON provides complete status monitoring for the entire Newsbox HD system. The license manager enables floating licenses for the editing applications allowing considerable flexibility about where software is installed and how it is used. The Newsbox ISA even includes a network switch to help get everything up and running in record time.



sQ Record

sQ Record controls recording of new material into the Newsbox HD. Each sQ record offers complete control of up to 4 ingest ports. sQ Record can record from live feeds and includes RS422 control for recording from VTRs.

sQ Play

sQ Play controls video play out from Newsbox HD. sQ Play manages 2 channels via the included play panel or 4 via GPIs.

sQ View

Newsroom browsing, shot selection and review software. Simple UI makes it fast and easy for anyone to find and use media. Shot selections and compilations put together on sQ View™ are instantly available with all their metadata on other editing workstations for viewing or refinement.

sQ Cut

Intermediate software package that delivers everything sQ View™ does plus complete timeline editing and VO record. sQ Cut™ is the perfect replacement for the workhorse 2 machine edit suite. The Template option allows sophisticated graphics to be added without tying up a graphic designer.

sQ Edit

sQ Edit™ is the top of the range software editor and has all the facilities of sQ Cut plus mix, wipe and custom transitions. A suite of quick fix tools solve everyday picture issues such as color balancing or masking out a face. sQ Edit includes templating as standard and the Effects option adds full multi-layer compositing facilities. sQ Edit can also load material from XDCAM and P2.

sQ Edit Plus HD

sQ Edit Plus HD is the hardware assisted editor in Newsbox HD. Supplied fully configured, sQ Edit Plus HD offers the best performance for working with HD. sQ Edit Plus HD includes the complete editing toolset including Templating and Effects. sQ Edit Plus HD also supports ingest from SD or HD video and from P2 and XDCAM.

Marco

Marco™ allows the same easy to use editing interface utilized on Newsbox HD to hit the road. Designed to run on standard laptops Marco allows editors to be just as productive on the road as they are at base. Marco is a standalone system that currently supports SD operation.

Newsroom integration for iNews or ENPS

Supplied pre-configured on a 1U PC the newsroom integration packages communicate with the newsroom via the industry standard MOS protocol. Rundowns are sent automatically from the newsroom to sQ Play. Full status monitoring is provided back to the newsroom system. Placeholders can be created for stories in the rundown with media content added later.

Data ingest and playout

In today's broadcast world handling files and folders is just as important as handling video. The Data ingest and playout option transfers media in files and folders into and out of Newsbox HD. It automatically generates files from every item in the NRCS rundown for instant new media access.

QCare

QCare is an essential part of the Newsbox HD package. Every Newsbox HD includes 1 year of standard QCare which provides 24/7 helpline support, access to advance spare replacements and even on-site visits by a Quantel engineer. It's everything you need to protect your investment in Newsbox HD. There's lots of flexibility in choosing your ideal level of QCare and discounts are even available on multi-year contracts to further lower the cost of ownership on Newsbox HD.



sQ View, sQ Cut, sQ Edit, sQ Play, sQ Record and the Data ingest and playout option are supplied as software only packages. The customer is responsible for the provision of suitable PCs, details of required PC specifications are at: http://www.quantel.com/site/en.nsf/html/PC_specs

“The system has massively increased our editing efficiency.”

Datuk Kamarulzaman, Director of News and Current Affairs, TV3

Quantel reserves the right to alter specifications without notice.

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