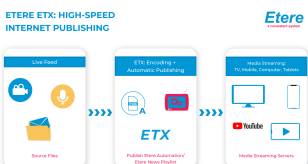


CHANNEL-IN-A-BOX

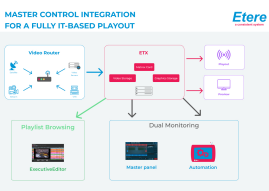
Etere Channel-in-a-Box empowers users with all the channel playout features needed to maintain an efficient and reliable channel on-air, including cloud playout, ingest, automation, master control and interactive graphics with consistent precision for even the most demanding environments.



ETX

Channel in a box Etere
ETX

ETX Streaming Diagram



ETX MC Diagram

Etere presents a cutting-edge, digital Channel-in-a-Box solution that empowers broadcasters with a unified platform and optimized file-based workflows to deliver programming across single or multiple platforms without the need for external graphics devices. The next-generation integrated system comes equipped with advanced automation capabilities that fulfill the requirements of broadcasters and TV stations of all sizes. Etere Channel-in-a-Box streamlines operations with simplified deployment, high performance and easy upgrade.

Etere Channel-in-a-Box speeds the deployment of TV channels with its integrative tools including ingest, rich graphics for professional playout, advanced graphics, cloud playout, dynamic overlays and text over recorded/live videos and SDI over IP broadcast in a single cost-effective solution. It provides all the necessary tools with customizable configurations to manage TV playout in both HD and SD. Etere Channel-in-a-Box solution is also easy to maintain, cost effective and highly reliable for all your mission-critical broadcast operations.

Etere ETX

Etere ETX is a IT-based Channel-in-a-Box with full IP (in and out) playout capabilities. It is a 4K-ready playout server that is able of driving the most popular HD/SD digital video/audio/graphics platform without the need for middle-ware or proprietary hardware.

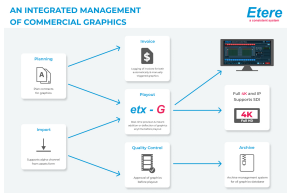
- Cloud Playout
- SDI over IP with multiple frame rates and independent IP out services
- Fast streaming of content to cloud media servers (YouTube, Wowza and Adobe Media Server) using RTMP & RTSP protocols
- Integrated IT-based master control with multichannels ingest/playout
- Easy insertion of closed captions including CEA 608 and CEA 708 with ETX inserter
- Create live subtitling seamlessly with ETX inserter and time delay
- 4K playout server, full IP support for both HD and SD videos, supports NewTek NDI
- SDI output supporting SDI and IP video cards
- Supports multiple layer of graphics, squeeze
- Ability to produce during ingest a proxy version in WMV format
- Included graphics engine allows overlay of static/animated logos and crawlers on 8 layers
- Support for all major wrappers (AVI, MXF, GXF, QT)
- All compression schemas MPEG-2, DV25, HDV, DVCpro, DVCpro50, DVCproHD, IMX30/40/50, XDcam-EX, XDcam-HD, AVC-Intra AVC-HD, H264, WMV, ProRes, HEVC
- H264 encoding
- Live Streaming Solutions: Picture-in-Picture (PIP) capabilities: Insert multiple overlays of live graphics and videos over a streaming video

Etere ETX-L Live Loudness Control

Etere ETX-L Live Loudness Control prevent excessive audio jumps provides automatic audio control using ITU-R BS. 1770/ITU-R BS. 1771 and peak value analysis. Etere ETX-L Live Loudness Control is the most versatile instrument for correcting common errors and avoiding fines due to transmission's volume excesses; it is also possible thanks to Etere Loudness to perform a preliminary



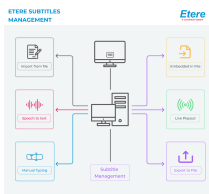
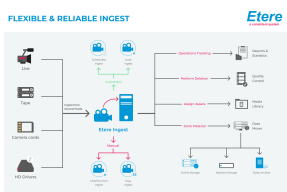
ETERE MASTER CONTROL



ETX-G



ETX-G

Subtitling with Closed
Captions

Etere Ingest diagram

calculation of the output volume through the loudness statistics of a specific day of broadcast.

Etere STman

Etere STMan is the application that provides broadcasters with a multi-layer and real-time management of secondary objects associated with scheduled events.

Etere STMan incorporates into a single module all graphical features including:

- An advanced graphic controller for the automation payout
- Ability to control multiple graphics for a single primary event, any line within the playlist can have a virtually unlimited number of secondary event
- Send parameters to the graphics retrieved from both the schedule and the asset

Etere ETX-G

Etere, the pioneer of IT-based broadcast payout, is a worldwide provider of highly integrated software solutions for an easy management of the end-to-end workflow of a Media company. Etere Master Control enhances broadcasters' payout automation capabilities with a fully digital master control with a touch-screen graphics interface. It includes customisable transition effects settings, up to 8 logo layers with multiple sizes per decoder and an unlimited number of input channels plus a single crawl/CG.

- Full 4K, IP support and SDI connectivity
- Supports multiple uploads and layers of graphics, squeeze, text crawlers
- Pre-set, preview and program allow preliminary checks of graphics before payout, without dedicated hardware
- Allows instant addition or deletion of graphics anytime before payout
- Ability to link up graphic objects such as texts, videos and pictures to multiple data sources
- Multiple videocards compatibility with a single output
- Supports popular graphics editors such as Adobe
- Load balancing capabilities for a fault-tolerant and fault resilient performance
- Graphics engine that enables overlay of static/animated logos and crawlers
- Real-time sharing of data across an integrated Etere Ecosystem framework

Etere Master Control

ETX-G is a commercial graphics management software that boasts an efficient archive management system for all graphics databases combined with an intuitive user interface that enables SDI-supported, real-time previews, instant addition and deletion of graphics anytime before payout. Etere ETX-G is an extension of Etere ETX and it can also be used as a separate graphics software in any payout. Etere ETX-G's integration with MAM library allows users to organize all the available graphics in one location and improve the operational efficiency during image search. Users can also preview graphics in real-time with visible alpha channel in asset form, without dedicated hardware and make some adjustments on the graphics directly.

Etere Subtitling and Closed Caption Software

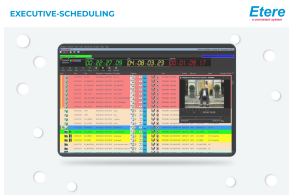
Etere Subtitling and Closed Caption Software is a digital platform for the creation, management, burning, payout and conversion of subtitles, captions and other text services for production, post-production and live shows. It allows broadcasters to freely produce subtitles in multi-languages and for multi-platforms, search by metadata and streamline the process with real-time sharing of edits without hardware.

Etere Ingest

Etere Ingest is a complete and flexible software solution which significantly improves the ingestion process of a broadcasting system through an integrated, modular and effective architecture, capable of ingestion from all common feeds.

Etere Executive Scheduling

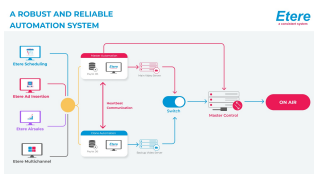
Etere Executive Scheduling is the complete planning solution that significantly boosts the efficiency of your short and long-term playlists. Etere Scheduling is part of Etere Ecosystem, the integrated enterprise framework that makes planned schedules aware of licensed content, contractual commercials, missing material, imported material and regional ad insertions.



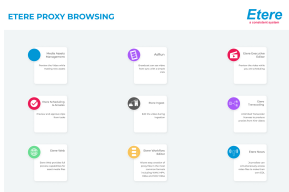
Executive Scheduling



f90



Etere Playout Automation diagram



etere proxy browsing



ETX and Multiviewer

Etere SNMP Console

Etere SNMP Console is the leading edge technology with a simple, intuitive and user-friendly interface that helps to optimize all the infrastructure performance and availability of a system. The SNMP Console provides a smarter solution since it takes under-control not only Etere solutions but all processes/devices in the system. Etere innovates and upgrades its Console continuously to transform any broadcast system into a completely safe solution because the security is of utmost importance! All processes are monitored by SNMP standard protocol.

Etere Media Manager

Etere Media Manager is a highly effective solution that manages the transfer, copy and movement of digital content from one level to another based on customisable workflow rules.

- Distributed processing with the use of an independent agent per data transfer
- Concurrent processing for simultaneous performance of different instances of a single data transfer
- Integrates Etere Transcoder to convert bit rates, provide encoding and decoding between media formats, change video resolutions to meet lower resolution screens
- Delivery over different media, playback over various devices or simply generate proxy files (e.g. wmv, mov)
- Based on configurable workflow actions
- Copy video files from a video server to another, even for files located in different remote locations

Etere T-Workflow

Etere T-Workflow Orchestration is a complete solution that empowers broadcasters with the software tools to understand, optimize and orchestrate workflows across the end-to-end media lifecycle.

- Prepares content for multiple screens delivery, transcodes media and converts metadata for broadcast, internet, mobile or any other platforms
- Clear definition of each complex step of the broadcasting process
- Visual paperless representation of each step mapped out
- Set of mandatory instructions and authorizations
- Complete log of all steps involved in a certain operation
- Simultaneous execution of multiple independent actions

Etere F90

Etere F90 is a module that provides a more efficient connection between two different systems and guarantees the maximum accuracy in the information importing and exporting processes, through a fully automated and paperless data flow application.

Etere Proxy Browsing

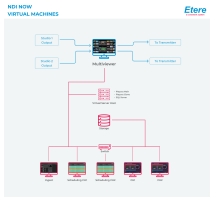
Etere Browsing is a robust solution, highly scalable for small to large broadcast and production facilities. Etere Browsing can be used from an unlimited number of browsing stations; in the same way many transcoding stations can be used to encode HiRes and LoRes media. With its easy-to-use interface, Etere Browsing is designed to reduce complexity, increase operational efficiency and to ensure optimum quality at every step of the workflow. Etere provides an advanced browsing solution integrated in all Etere solutions, from ingest to playout, including free web integration and streaming capabilities.

Etere Tapeless Reception

Etere Tapeless Reception eliminates the need to create physical copies, entrust valuable material to private couriers and risk excessive waiting times, through an efficient and secure solution for the automatic transfer of any digital content.

Etere Automation Backup and Clone

Etere Automation provides a reliable performance and the ultimate flexibility with multiple levels of fault tolerance and redundancy options. In media productions, having a reliable and flexible backup system is indispensable. Etere Automation offers greater flexibility with different levels of fault tolerance, including backup, master/clone and backup one to many mode, all with a single licence.



Virtual Machines

Etere ETX-M Multiviewer

Etere ETX-M Multiviewer lets you view multiple videos, live-feeds, and more, all from the same screen, all at once. Allowing for unlimited feed inputs, the sky is the limit with the powerful Etere ETX-M Multiviewer. No matter your workflow, Etere ETX-M Multiviewer can interoperate seamlessly, saving you space and lowering operating costs.

Etere Full IP Payout

Etere full IP payout solution is scalable, easy to manage and cost-effective. It is a complete solution that includes Ingest, Media Asset Management (MAM), Transcoding, Quality Control, Payout, Graphics, Etere ETX-M IP Multiviewer and Closed Caption capabilities. With Etere, you can build an IP facility that does not require any SDI hardware and is less expensive than a traditional solution.

Etere Full IP Payout with ETX-M Multiviewer

Etere full IP Payout provides a single solution to manage the complete workflows and requirements of ingest, playback and graphics. With Etere, users can manage a streamlined setup that does not require SDI hardware and save up to 50% in hardware costs. Not only that, the highly flexible solution supports the use of virtual machines with the added advantage of having multiple OS environments simultaneously on the same machine. Etere full IP Payout's innovative approach includes Etere ETX-M Multiviewer for the management of up to 9 display monitors and 30 input sources at any point of time.

Etere SRT Protocol

The Secure Reliable Transport (SRT) is a royalty-free, open-source video transport protocol that supports low-latency, high-performance streaming, even over unpredictable or unstable networks such as the internet. It accounts for packet loss, jitter and fluctuating bandwidth, maintaining the integrity and quality of your stream. The SRT protocol is used across all of Etere's broadcast workflows to provide the best and most secure experience for users.

About Etere

Since its beginnings in 1987, Etere has been preparing users to be ready for the future. Etere is a worldwide provider of broadcast and media software solutions backed by its mark of excellence in system design, flexibility and reliability. Engineered in Singapore, the revolutionary concept of Etere Ecosystem promotes real-time collaborations and enhances operational efficiency across the entire enterprise. Etere Ecosystem software solutions including Media Asset Management, Channel-in-a-Box, Newsroom, Ad Insertion, Airsales, Automation, Broadcast Management System, Censorship, HSM Archive, Logging, OTT/VOD Delivery, Radio-Live, Subtitling and Captioning software are built with an integrative Web and Windows architecture that are customisable to fit perfectly in any system. Etere system is developed by 4 different groups in different countries to ensure reliability and quality. Etere delivers on its service excellence commitment with its dedicated team and a 24/7 worldwide support. Its portfolio of digital technologies and market-proven remote/on-site solutions including consultancy, training, installation and demonstrations are ready to run with your business no matter where you are. Etere enhances your adaptability for the future and empowers you with the software tools to drive your business to greater heights. www.etere.com