

XENTAURIX® Media & Broadcast Logger Typ Standard

The XENTAURIX Media & Broadcast Logger (XBL) is a professional broadcast recording and verification system for digital recording and playback of various TV, radio, video and streaming formats including their metadata. Originally designed as a pure video logger, the Media & Broadcast Logger has meanwhile grown far beyond this field of application. It is used as a multi-channel multi-signal video encoder, transcoder, recorder, streaming and web server, multi-screen monitor, for the production of video clips, snapshots as well as a search engine and for content analysis. The logger systems are characterized by groundbreaking user-friendliness, high flexibility and multifunctionality and have been in use since 2000.



Areas of application

- TV/Radio/Livestream Broadcasting Evidence,
- TV recording, editorial research, clip production,
- TV competition monitoring, ratings analysis,
- IPTV/OTT applications for user groups,
- education and training,
- Activity recording in control centers and command centers: video, audio, monitors, keyboard logging

Scalable, multifunctional system

The Standard Logger is an all-in-one system that includes signal inputs, encoder, decoder, database, streaming and web server, storage, database and user and content management. Depending on the size of the internal or external storage, type of signal source, bandwidth and other factors, recordings can be made over periods of weeks, months or even years (loop recording).

Record Web-TV Streams and Websites

The Media & Broadcast Logger also records live video streams from web TV as well as from social media channels (Facebook, YouTube, Twitch, etc.) automatically, manually or time-controlled and can be analyzed. The system also offers the option of recording and archiving complete websites, including all sub-pages or specific websites.

Recording and Search in Metadata

Subtitles, as-run logs, teletext, or metadata from video and audio fingerprinting, speech recognition, and AI-based video analytics are recorded in sync with the content. Bookmarks can be added during or after recording. By combining the recording with metadata, video content can be quickly found via the integrated full-text search engine and retrieved down to the second. The Media & Broadcast Logger Type Standard is an extraordinary TV/

Radio/ Video/ Media search engine for professional applications.

Multisignal Operation

In the basic configuration, the Media and Broadcast Logger Type Standard has M/SPTS IP inputs that can be activated. Optional inputs for analog signals, DVB-S/C/T, ASI, SD/HD-SDI, RGB/ TS, DVI/HDMI or FM/AM/DAB are available. Different signal formats can be combined in one device.

Integrated Receiver

For DVB and FM/AM/DAB applications, the logger has integrated receivers. A DVB-S/C/T receiver can contain up to 8 internal tuners. In AM/FM/DAB operation, one receiver card can process up to 32 radio stations simultaneously.



TS Native Recording

The optional X-TS module enables recording of DVB and IP signal sources in the Native MPEG-TS format. A combination with the H.264/265 proxy enables frame-accurate editing, cutting and uploading of TS Native videos through the Low Resolution Proxy.

Dash Streaming

The logger, in combination with the integrated streaming and web server, offers MPEG-Dash streaming for live and instant replay function, VoD and Play-Out.

Easy handling, user friendly

The modern HTML5-based dashboard with the diverse templates offers a combination of multiscreen live signal and playback, metadata, clip placement, search functions, storyboard and analysis tool displays on one interface. Layouts can be created individually and stored user-specifically locally as well as centrally. Video clips can be edited quickly and easily via drag & drop, cut frame-accurately and uploaded at the click of a mouse. Frame-store-based recording technology allows clients to switch

from live viewing directly to instant replay and create video clips in this mode as well. With add-on modules, a variety of complementary applications are possible, such as audience rating analysis, TV spot monitoring, S2T, AI-based content analysis, multiscreen monitoring, etc. The HTML5-based dashboard supports all common browsers such as Edge, Safari, Firefox, Chrome as well as all stationary and mobile devices with different operating systems such as iOS, Android or Windows.

Media & Broadcast Logger Type Standard

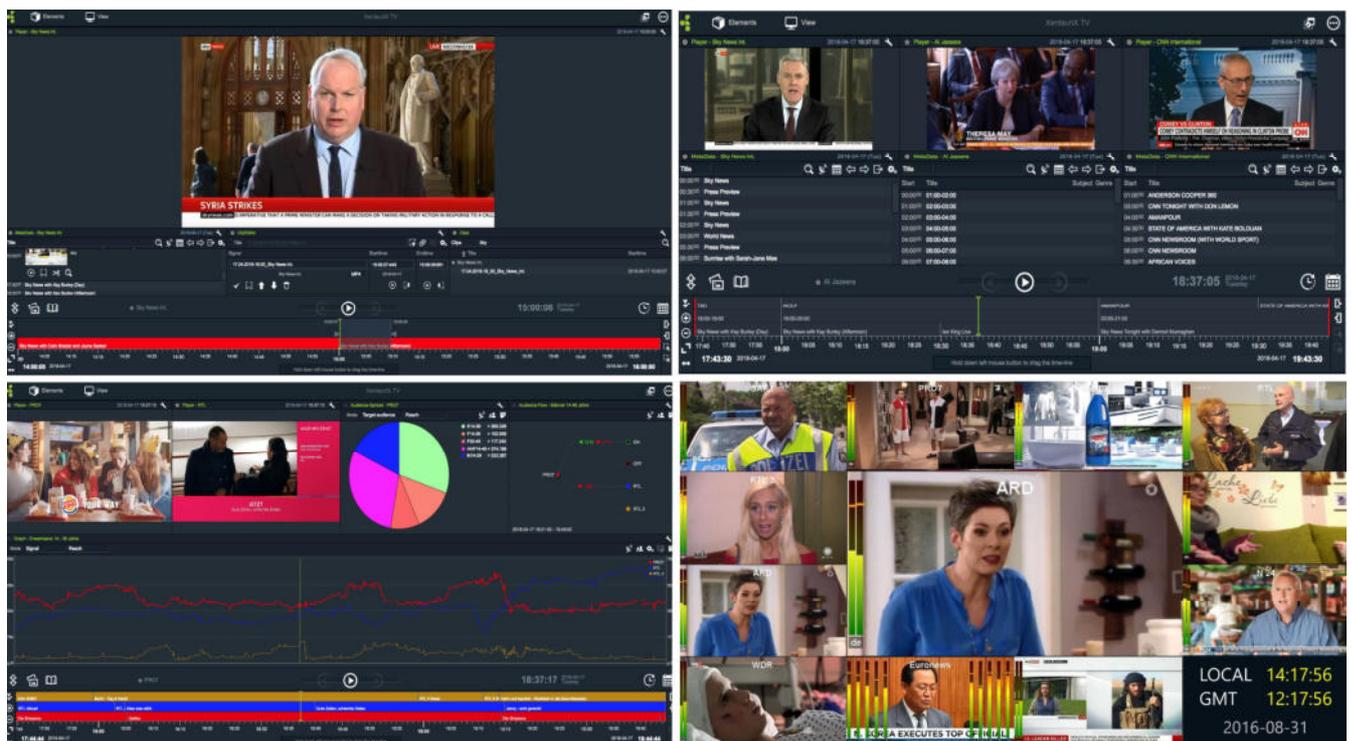
The All-in-One Standard Logger is available as a single device with 1-20 channels, integrated RAID1 array and user-specific hard disk capacity. RAID5 array and other hardware components and software tools are optionally available. An external storage server can be offered for long-term archiving.

Expandability

The Standard Broadcast Logger can be extended to the Professional System by means of software and hardware upgrades. This means that the system can be expanded as required and can be operated at a wide variety of locations with local and central polling options. The combination of XBL master and subunits offers operation with a wide variety of signal inputs, enables customer-specific systems that can be expanded and modernized at any time, and thus offers investment security. By cascading XBL subunits, a virtually unlimited number of channels is available. For high availability requirements, the logger system is available in cluster fail-back design.

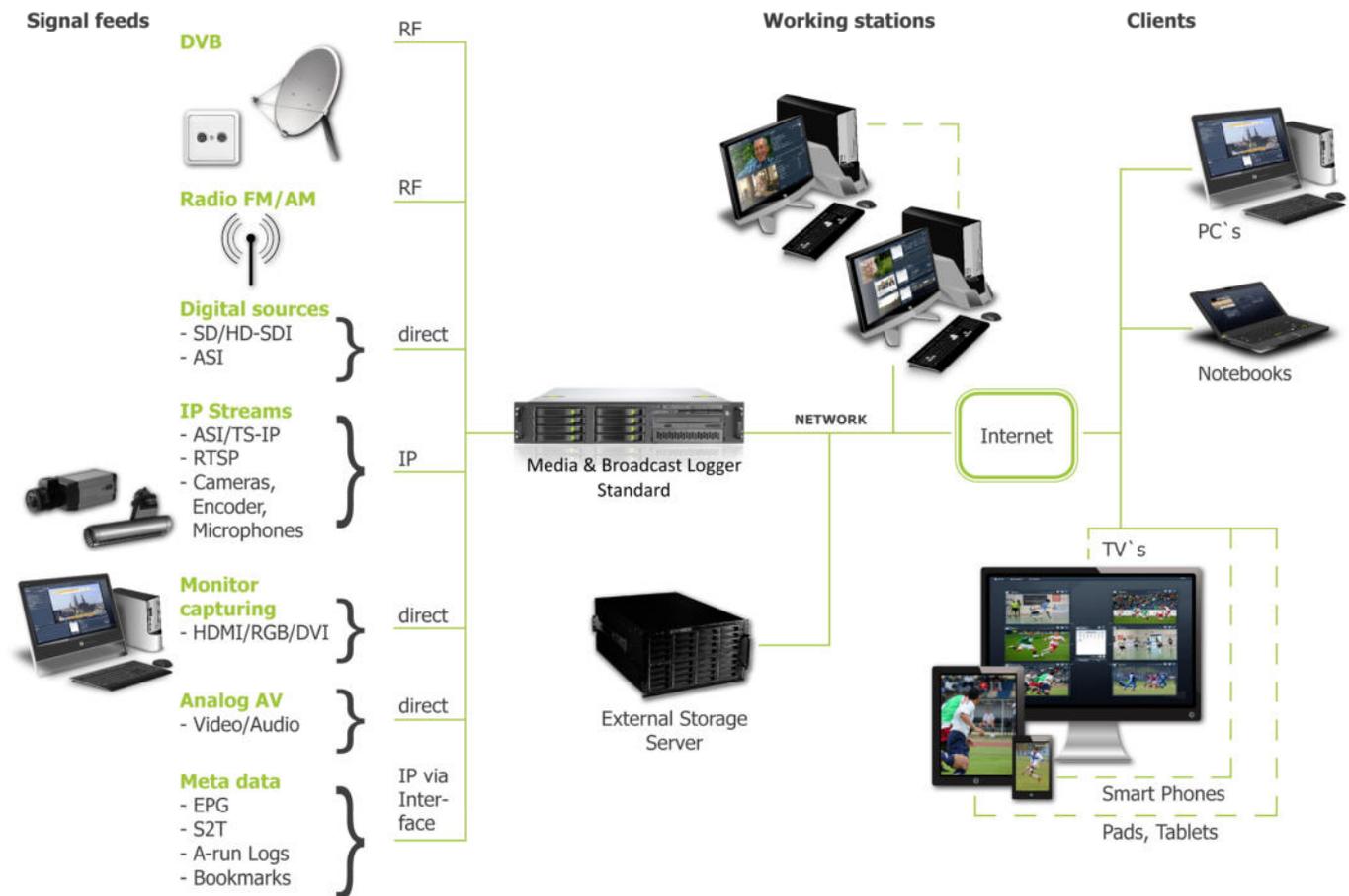
No client license costs

There are no client license costs for the XENTAURIX Media & Broadcast Logger type "Standard". The number of queries - due to the hardware performance - is limited to 20 simultaneous clients for this version. For the "Professional" type there is no limit neither for the number of clients nor for the total number of clients.



Images: Examples of individually created dashboard layouts

XENTAURIX Media & Broadcast Logger Standard



Extensions / software and hardware modules

Input formats

The XENTAURIX Media & Broadcast Loggers have M/SPTS and RTP/RTSP IP inputs as standard. The XBL subunits can be equipped with integrated receivers for DVB-S/CT, Radio AM/FM/DAB by built-in grabber cards for Ana-log/Composite, HD-SDI, ASI, DVI/HDHMI/RGB.

Logger Hardware

The hardware is designed for very high operational reliability. To ensure maximum fail-safe operation, the following hardware options are available:

- **X-RAID5 + Storage Upgrade:** Expandability from RAID1 to RAID5 recording with 8TB (XBL-Standard)
- **X-8TB Storage:** Expand storage capacity by an additional 8TB, for XBL Standard and Professional versions
- **X-PSU:** Expansion to redundant power supply
- **X-Cluster:** Highest operational reliability due to cluster system
- **X-FailOver:** Failover security through failover backup server (n+1)

TS Recording with Proxy

- **X-TS module:** The module enables recording of DVB and IP signal sources in Native MPEG TS. The combination with a low resolution H.264/265 proxy enables frame accurate editing, cutting and uploading of TS Native videos.

Content Analysis

- **X-TV Rating Monitor** Ideal module for the clear presentation and evaluation of TV viewer ratings, viewer groups or viewer migration. This is a very effective way of evaluating and optimizing TV reports or commercials.
- **TV spot monitoring** For automatic recognition of TV spots
- **Music recognition** TV/radio: Enables automatic recognition of music titles on TV and radio with title, artist, playing time and other data based on a central music database.
- **TV content recognition using AI** TV and video content is automatically analyzed using artificial intelligence and identified according to pattern features.

Signal Monitoring

- The XBL broadcast systems include a variety of free monitoring features as standard according to TR101290. For DVB, signal strength, signal quality are logged, signal error messages are generated for CC (continuity, counter), PMT (program map table), PES (packet-sized elementary stream) and TEI (transport error indicator).
- **X-VALD** (Video/Audio Loss and image freeze) module for detection of video/audio loss and freezing of transmission
- **X-Loudness** Module for monitoring and displaying level loudness according to EBU R128/ITU-R BS.1770-1

Subtitles

- **X-CC/TT** This module extracts subtitles, DVB subtitles and videotext pages from the TV signal and stores them in the database with the videos. Through text-based search functions, relevant videos can be played back immediately.

Multiaudio

- **X-MultiAudio** module for recording, streaming, and playing back another stereo channel in a video stream. Up to 8 stereo channels per stream are possible.

Multiviewer

- With the X-Multiviewer module, the XENTAURIX system can be expanded to an external monitor/video wall display. Live TV, radio and video streams with metadata are displayed on one or more monitors.

Details about the software and hardware extensions for the Media & Broadcast Loggers as well as support and services can be found under <https://www.xentaurix.com/en/products/xentaurix-modules/>

Highlights XBL-Broadcaster Type Standard

- Scalable, multifunctional multichannel - multisignal media & broadcast logger system
- State-of-the-art, clear and user-friendly HTML5 dashboard with individual layout creation and local and central storage
- Multiscreen display for live and synchronous playback
- Modular design, expandable at any time, no channel limitation
- Input signals: TS-IP, RTSP-IP, analog, SD/HD-SDI, DVB-S/C/T, ASI, radio: FM/AM/DAB as well as RGB/DVI/HDMI,
- Very fast insertion and configuration of new signal sources
- Multibitstreaming encoding, recording, playback and restreaming
- TS recording in MPEG Native format with LR Proxy (optional)
- Simultaneous display and playback of selected channels and video clips
- Import, display and search of metadata like EPG, as-run logs, subtitles, bookmarks
- Support for speech recognition and transcriptions (Professional only)
- Playback of recorded data via slider with fast forward and rewind, bookmarks, storyboard, search words, calendar, video clips
- Instant replay function over the entire recording time
- Storyboard function
- LDAP support
- Transcoder support
- Integrated Clip Maker
- EPG Importer
- Multibit recording, adjustable for each channel
- Ring memory adjustable for each channel (in days or by memory capacity)
- Integrated timer for scheduled recordings
- Integrated web and streaming server
- Administration level: configuration, search, filtering, group functionality, signal analysis of live and recorded signals
- Alarm management and mail notification, system status display
- Highest operational security through cluster and failover backup system (optional)
- Multilingual DE, GB, Arabic additional menu languages on request

- Highly reliable software and hardware
- Made in Germany
- In use worldwide since 2001

Recording duration of an XBL subunit in days with 16TB total capacity

Anzahl Kanäle/Bandbreite	1Mbps	2Mbps	4Mbps
1	960	480	240
2	480	240	140
4	240	140	70
8	140	70	35
16	70	35	17.5
32	35	16	8.75

Delivery versions

Artikel Nr.	Typ
420201	XBL-STD30401 1-Kanal Media & Broadcast Logger "Standard" mit 1 x M/SPTS-IP Eingang
420202	XBL-STD30402 2-Kanal Media & Broadcast Logger "Standard" mit 2 x M/SPTS-IP-Eingängen
420204	XBL-STD30404 4-Kanal Media & Broadcast Logger "Standard" mit 4 x M/SPTS-IP-Eingängen
420208	XBL-STD30408 8-Kanal Media & Broadcast Logger "Standard" mit 8 x M/SPTS-IP-Eingängen
420216	XBL-STD30416 16-Kanal Media & Broadcast Logger "Standard" mit 16 x M/SPTS-IP-Eingängen