

XENTAURIX® Media & Broadcast Logger Type Standard

XENTAURIX® is the brand name of artec technologies AG's Media & Broadcast Logger product line (XBL) - a professional, multifunctional platform for media & broadcast recording, compliance logging, monitoring, and media/content analysis. It supports digital recording and playback of TV, radio, Web TV, social media streams, IP video sources and associated metadata. Originally developed as a long-term video recorder, XENTAURIX Media & Broadcast Logger has evolved into a powerful multi-channel encoder, transcoder, recorder, streaming and web server, offering video clip creation, multi-view monitoring, full-text search and metadata analysis within one integrated system.

XENTAURIX Media & Broadcast Loggers are used worldwide by broadcasters, cable and satellite operators, OTT providers, media agencies, regulatory authorities, and training institutions. It enables program monitoring, competition tracking, newsroom research, automated clip production, and content verification.

Since 2001 of continuous development, XENTAURIX Media & Broadcast Loggers are the world's longest-established broadcast logging system. Its proven reliability, scalability, and extensive feature set make it a trusted choice for mission-critical environments that require long-term operational stability and first-class manufacturer support.



Areas of Application

- Broadcasters
- News services and newsrooms
- Media agencies
- Cable and satellite operators
- OTT providers
- Government and media authorities
- Training and educational institutions
- Corporations
- Intelligence services

Media & Broadcast Logger Type Standard

The XENTAURIX Media & Broadcast Logger (Standard) is an all-in-one appliance integrating signal inputs, encoding/decoding and transcoding, a database, streaming and web services, storage, and user/content management. Depending on storage capacity (internal or external), source signal type, bandwidth and the selected recording profile, it supports continuous recording for weeks, months, or even years (loop recording).

Professional, scalable, multifunctional system architecture

The Standard Logger is available as an appliance supporting 1 to 20 channels. Channel capacity depends on the signal type and the chosen recording profile (resolution/bi-trate). The base configuration includes RAID 1 storage (2 × 10 TB). RAID 5 and additional hardware components or software options are available on request. For long-term archiving, an external storage server can be provided

Recording Web TV, Social Media Streams, and Websites

XENTAURIX Media & Broadcast Logger records live streams from Web TV and social media platforms such as YouTube, Facebook, Twitch, TikTok, SnapChat or Instagram Stories - automatically, manually, or via time-controlled scheduling. Additionally, the system can capture entire websites, including all subpages, or selectively archive specific web content for analysis and documentation.



Recording and Metadata Search

XENTAURIX Media & Broadcast Logger records EPG, subtitles, as-run logs, teletext, SCTE markers, and speech-to-text transcripts synchronously with video content. Bookmarks can be added during or after recording. The integrated full-text search engine enables rapid retrieval of content across all metadata sources.

This makes XENTAURIX an extremely powerful search platform for TV, radio, video, and media archives.

TS Native & Proxy Recording

The optional X-TS module enables native MPEG-TS recording for DVB and IP sources. Combined with H.264/H.265 proxy recording, users can perform frame-accurate editing, cutting, and uploading of TS-native material via the low-resolution proxy.

DASH Streaming

With the integrated streaming and web server, the XBL supports MPEG-DASH live streaming, instant replay, VoD, and playout.

Multiple Signal Source Operation

Standard XENTAURIX Media & Broadcast Logger input signals include MPTS and SPTS IP streams (UDP, TCP, RTP). The system also supports a wide range of additional signal sources: Analog, DVB-S2/C2/T2 + ATSC/ATSC 3.0, SDI, NDI, SMPTE 2110, ASI, QAM, RGB/DVI/HDMI, TS-IP, RTMP, RTSP, HLS, SRT, MPEG-DASH, SMOOTH and Radio FM/AM/DAB (via antenna).

All signals are processed via integrated capture cards - no external receivers, converters, or additional hardware are required.

Easy Operation & User-Friendly Interface

The XENTAURIX Dashboard is a modern, HTML5-based interface for professional media logging, monitoring, and analysis. Its modular tile layout combines live channels, playback, metadata, search, analytics, and optional modules within customizable views.

Tiles (e.g. video, status, replay, clipping) can be positioned and resized freely and interact dynamically—timeline selections instantly update related content. Instant Replay enables frame-accurate clip creation, drag-and-drop editing, and export to FTP, network storage, or social media. Automated clipping is supported via SCTE-35/104, EPG, or as-run logs. Layouts can be stored locally or centrally, with light/dark themes. The dashboard runs in any browser and supports cross-platform access.

Key Features of XENTAURIX Dashboard

- Modern HTML5 web interface for logging, monitoring, and analysis
- Modular tile-based workspace (live, playback, metadata, search, analytics, optional modules)
- Fully customizable layouts: tiles can be freely positioned and resized
- Dynamic interaction: timeline selections instantly update related tiles/content
- Instant Replay from live with frame-accurate navigation
- Frame-accurate clipping with drag & drop editing
- Flexible export of clips to FTP, network storage, and social media
- Automated clipping via SCTE-35/104, EPG, or as-run logs
- User layouts stored locally or centrally (role/user-specific)
- Light/Dark theme support
- Browser-based, cross-platform access (no client installation)

Integrated Search Engine

A powerful full-text search engine enables rapid content discovery across all metadata. Searches can be refined by channel and time range. Results include extended context, and playback begins instantly with second-level accuracy. The Dashboard Player supports synchronized playback of multiple channels in multiscreen mode — ideal for fast comparison and analysis.

Control XENTAURIX Via Rest API

The XENTAURIX REST API offers seamless integration into external media control systems along with numerous additional advantages for modern IT and broadcast infrastructures. As a standardized interface based on HTTP methods (e.g. GET, POST, PUT, DELETE), it enables platform-independent communication with XENTAURIX systems — whether on-premises or in the cloud.

Maximum Operational Availability

An N+N setup with two identical XENTAURIX Standard Loggers provides full redundancy and significantly improves system availability.

Concurrent user

The XENTAURIX Media & Broadcast Logger Standard is limited to 20 concurrent user

Upgrade to XENTAURIX Professional type

When needed, the XENTAURIX Media & Broadcast Logger Type Standard can be upgraded to the XENTAURIX Professional type through a software license/upgrade. This enables flexible system expansion. In the Professional version, there is no client/user limitation.

Support & Service

artec technologies AG, in close cooperation with its partners, offers outstanding first-hand support and service worldwide.

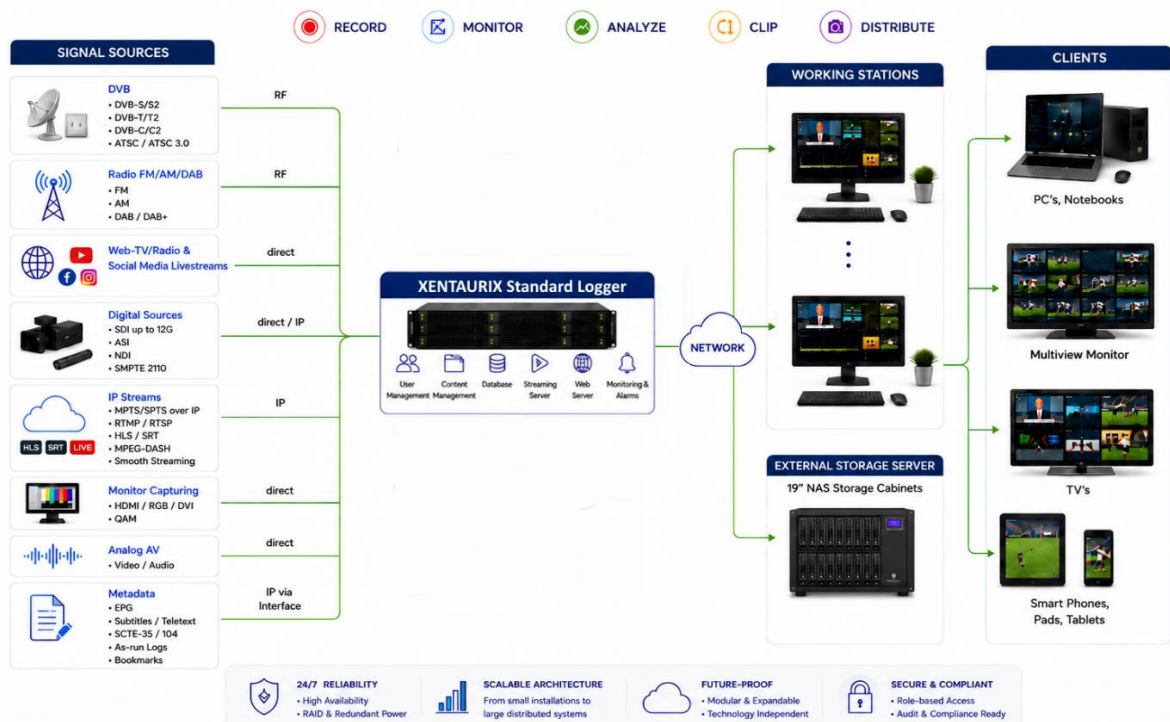


Images: Examples of individually created dashboards and Multiviewer layouts

XENTAURIX Media & Broadcast Logger Standard Architecture at a Glance

The architecture system diagram illustrates the versatility of the XENTAURIX Media & Broadcast Logger system—from support for a wide range of input signals and optional external storage integration to in-house and remote monitoring, search, and analysis workstations.

XENTAURIX Media & Broadcast Logger Standard



XENTAURIX Media & Broadcast Logger Extensions Modules

Multiple Input Devices

Standard input signals include MPTS and SPTS IP streams (UDP, TCP, RTP).

The system also supports a wide range of additional signal sources: Analog, DVB-S2/C2/T2 + ATSC/ATSC3.0, SDI, NDI, SMPTE 2110, ASI, QAM, RGB/DVI/HDMI, TS-IP, RTMP, RTSP, HLS, SRT, MPEG-DASH, SMOOTH and Radio FM/AM/DAB (via antenna).

Logger Hardware

- The hardware is designed for very high operational reliability. To ensure maximum fail-safe operation, the following hardware options are available:
- **X-Storage** 2x10TB @Raid 1 array as standard, the capacity can be optionally expanded according to the customer's requirements.
- **Redundancy:** An N+N setup with two identical XENTAURIX Standard Loggers provides full redundancy and significantly improves system availability

TS & Proxy Monitoring & Recording

- **X-TS module** Native DVB MPEG-TS sources and TS-over-IP streams (high resolution) are recorded synchronously alongside a low-resolution MPEG-4 proxy recording. The proxy enables responsive review and frame-accurate in/out editing, while clip and snapshot export is performed against the aligned high-resolution MPEG-TS recording.

TV Audience Analytics

- **X-TV Rating Analyser** This module provides marketing, media, advertising, and broadcast organisations with a modern workspace for analysing TV programmes alongside viewer ratings. Audience measurement data from external providers (e.g., GfK, Nielsen and other market-specific services) is imported and processed within XENTAURIX, allowing users to search, compare time windows, and review or export relevant programme segments linked to rating peaks and trends.

Content Recognition

- **TV Ad :** With this module commercials on TV, radio and webcasts are automatically detected and stored near real-time. The commercials including program information and statistical data can be accessed via the XENTAURIX® Dashboard. With a detection rate of up to 99.9%, you can rely on trustworthy data.
- **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.
- **Speech to Text Recognition (S2T):** The X-S2T module enables automatic transcription of speech to text in 24/7 mode, timer mode and by creating video and audio clips. The X-S2T module supports a variety of international languages.
- **TV content recognition using AI:** TV and video content is automatically analyzed using artificial intelligence and identified according to pattern features.

Signal Monitoring (all included at no extra ccost)

- It includes a set of monitoring features based on ETSI TR 101 290 for MPEG-2 Transport Stream compliance monitoring (e.g., PAT/PMT consistency, PCR checks, continuity counter errors, PES errors and TEI-flagged packets). For DVB reception, additional RF/Tuner metrics such as signal level/strength and signal quality (e.g., SNR/MER depending on the frontend) can be logged. In addition, SCTE-35 (and, where applicable, SCTE-104) cue message/flag monitoring is supported.
- **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/Closed Captions/Teletext

- **X-CC/TT** This module extracts subtitles and programme text from the TV signal—such as DVB subtitles and Teletext pages—and stores them as time-aligned metadata in the database, synchronised with the recorded video. Using the integrated full-text search, users can instantly locate relevant segments and start playback at the matching timestamp.

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.

MULTVIEWER

- With this free-of-charge integrated software feature, a XENTAURIX Media & Broadcast Logger system can be expanded to multiview display (display splitting or screen splitting). Multiple real-time TV, radio and video signals can be displayed on one or more monitors. The mosaic size and positioning of the signal sources can be configured and saved individually for each monitor in the Multiviewer layout. The decoding PC can also be selected in the MULTIVIEWER configuration. With the X-MULTIVIEWER feature, a XENTAURIX Media & Broadcast Logger 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.

Website Archiver

- The XENTAURIX Website Archiver captures entire websites or individual pages — either once or at scheduled intervals (e.g. every 5 minutes, hourly, daily, etc.). Unlike screenshots, it stores the complete HTML content. Archived pages can be accessed and scrolled through using the XENTAURIX Dashboard Player.

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 XENTAURIX Media & Broadcast Logger Type Standard

- Scalable, multifunctional, multi-channel/multi-signal Media & Broadcast Logger system.
- Modern, clear and user-friendly HTML5 dashboard with customizable user layouts.
- Integrated Multiviewer software for mosaics on one or multiple external monitors. Mosaic size, positioning, and layouts can be individually configured and saved for each monitor.
- Input signals: M/SPTS and RTP/RTSP IP inputs (UDP/TCP/RTP) and optionally: Analog, DVB-S/C/T and ATSC/ATSC3.0, SDI up to UHD, ASI, QAM, RGB/ DVI/HDMI, SMPTE ST2110, NDI, SRT, TS-IP, RTMP, RTSP, MPEG Dash, SMOOTH and Radio FM/AM/ DAB (via antenna).
- Fast integration and configuration of new signal sources.
- Multi bitrate encoding, recording, playback and re-streaming.
- Native MPEG TS recording with optional low-resolution proxy.
- Simultaneous display and synchronized playback of selected channels and clips.
- Metadata import, display and full-text-search (e.g. EPG, as-run logs, subtitles, bookmarks, teletext, S2T).
- Speech to Text support and transcripts (optional).
- Advanced playback navigation: timeline/slider, fast forward/rewind, bookmarks, calendar, storyboard, and keyword search across metadata and optional AI-generated metadata.
- Instant replay directly from the live signal, as well as time-shifted replay across the entire recording period.
- Storyboard functionality.
- LDAP integration.
- Integrated transcoding support.
- Integrated Clip Maker: Free tool for frame-accurate editing and exporting of video clips, with support for proxy-based editing workflows.
- EPG importer.
- Multi bitrate recording per channel (individually configurable).
- Configurable loop (endless) or non-loop recording per channel (in days or by storage capacity).
- Integrated scheduler/timer for planned recordings.
- Integrated web and streaming server.
- GPU acceleration for ASR
- Concurrent users: Up to 20 simultaneous users included; no per-user licensing fees. Concurrent User.
- Administration tools: configuration, search, filtering, groups, signal analysis live and recorded, etc.
- Alarm Management: automated email alerts and system health/status monitoring.
- High availability by optional N+N architecture.
- Audit logging
- RBAC control
- REST API/SDK
- Multilingual UI: German, English, Arabic, Korean, Portuguese (additional languages on request).
- Highly reliable software and hardware.
- Optionally upgradeable via software upgrade to the Professional system version.
- Made in Germany. In use worldwide since 2001.

Recording time of XBL Standard Logger in days with 2x10TB@Raid1 storage capacity

Channels/Bandwidth	1Mbps	2Mbps	4Mbps	8Mbps	16Mbps
1	1000	500	250	125	62.5
2	500	250	125	62.5	31.2
4	250	125	62.5	31.25	15.6
8	125	62.5	31.25	15.6	7.8
16	62.5	31.25	15.6	7.8	3.9

Delivery Options

Article No.	Typ
420201	XBL-STD30401 1-Channel Media & Broadcast Logger "Standard" with 1 x M/SPTS-IP Inputs
420202	XBL-STD30402 2-Channel Media & Broadcast Logger "Standard" with 2 x M/SPTS-IP-Inputs
420204	XBL-STD30404 4-Channel Media & Broadcast Logger "Standard" with 4 x M/SPTS-IP-Inputs
420208	XBL-STD30408 8-Channel Media & Broadcast Logger "Standard" with 8 x M/SPTS-IP-Inputs
420216	XBL-STD30416 16-Channel Media & Broadcast Logger "Standard" with 16 x M/SPTS-IP-Inputs

Additional delivery options on request