

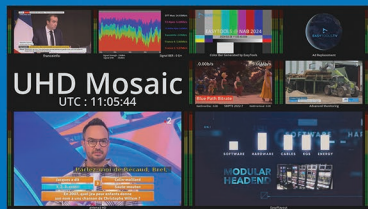
Monitor

Monitor your streams and send SNMP traps in case of failure.

Compare streams with reference streams using fingerprinting algorithm. Record streams for later analysis, exactly as they are, in TS format, and create extractions manually using our cross-platform application, on trigger, or by API.

Create a multiviewer stream from up to 36 inputs streams with:

up to 4 audio bargraphs for each channel
bitrate graphs for multi-program transport streams
additional graphical elements such as clock or logo
on-screen alerting (QoS and QoE monitoring)



We have provided EasyTools multiviewers, with audio bargraphs and alerting, to a lot of IPTV and MCR customers. The product is both powerful and cost-effective

Serge Gravis,
CEO at **Canal Cable**

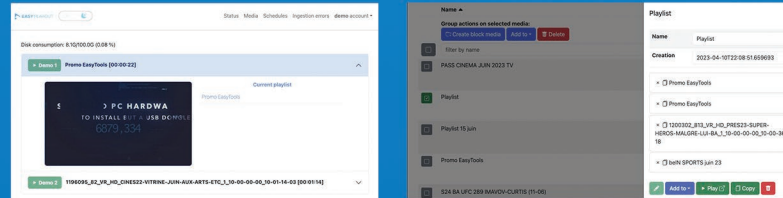
EasyTools allows us to record all our outgoing streams for compliance recording, and to troubleshoot potential problems.

Valentin Yvonnet,
Technical & Broadcast Manager at **Trace**

EasyTools as a Service

EASY  **PLAYOUT**

Create barker channels from media files.
Build & schedule playlists according to rules.
Switch to incoming live SRT events.
Add logos or tickers.



EASY  **TRANSMIT**

EASY  **ENCODER**

Receive channels from SRT or satellite using our two teleports in Paris, France and Malaga, Spain.
Transcode them in our cloud platform, and deliver them over the Internet, or to network operators in Paris (Telehouse 2 and Interxion 5).

TELEHOUSE

interxion
A DIGITAL REALTY COMPANY

templus

EasyTools provides us with reliable reception of foreign channels, and their delivery to French IPTV operators in the appropriate formats (at cost efficiency and speed of execution as a bonus).

Jean-Luc Bernard,
Business Affairs at **Thema (A Canal+ Company)**

We rely on EasyTools for the flexible distribution of our channels everywhere in the world, using datacenter delivery or SRT protocol.

David Couret,
Director Technical Solutions - Distribution at **France 24**



EASY TOOLS
Software-Defined Video

 www.easytools.tv

 info@easytools.tv

EasyTools is the swiss-knife of broadcast. Modules can be combined to build the most complex workflows in an efficient and affordable way. It is only limited by your imagination.

Gaël Turlan,
Head of Transmission Engineering at **Mediawan**

Software-based Cloud-ready Cut your CAPEX costs



Our Team

Christophe Massiot is CEO and founder of EasyTools.
As the co-creator of VLC, he has a 20-year expertise in broadcast and relies on a team of experienced developers and engineers.

Our Partners



▶ Contribute

SEND AND RECEIVE STREAMS ON LOCAL NETWORKS AND ON THE INTERNET.

Supported inputs/outputs:



Internet contribution: SRT (content protection, stream multiplexing, multi-client connections), RIST simple profile

Internet protocols: HLS, RTMP, icecast

SDI and HDMI using Blackmagic Decklink cards or our mobile gateway, with optional low-latency encoding

Sat & DTT reception, DVB-ASI

SMPTE 2022-7 Seamless Protection Switching



Check out our compact SRT encoder/decoder

We use EasyTools SRT gateways on our premises to receive live content. We also use EasyTools mobile gateways to encode and deliver live events wherever they happen.

Sylvain Bottari,
Technologies and Antennas Manager at **TV Monaco**

EasyTools low-latency encoders allow us to monitor and control our on premises equipments at our operation center, located 15 km from the datacenter.

Alain Lorentz,
CTO at **Cognacq Jay Image**

▶ Process

DELAY A STREAM, PROCESS THE VIDEO AND AUDIO, OR CREATE MULTIPLEXES.

Video processing: picture overlay, deinterlacing, framerate conversion

Audio processing: downmixing, Kantar watermarking

Seamless switching between different inputs

Create a replacement stream with efficient and affordable TS layout

Transport Stream delay configurable in milliseconds, from 1 second (limited only by hardware)

Multiplexing with NIT/EIT/AIT/etc. insertion

EasyTools allowed us to drastically reduce our operational costs, with its software-based solution to build a DTT multiplex with all necessary tables and signaling. We even automatically create a mutualized channel from several different sources, based on a daily schedule.

Vincent Charley,
General Secretary at **Multi 7**

We use EasyTools to delay streams in order to distribute them overseas in different timezones, in a reliable and affordable way. We are even able to automatically handle DST changes.

Franck Vetu,
COO at **Pixagility**

▶ Distribute

ENCODE OR TRANSCODE STREAMS TO THE DISTRIBUTION CODECS. Package them in the wanted format, handle automatic failover using our monitoring tools.

Supported Codecs:

- **Video:** MPEG-2, AVC, HEVC, with optional hardware acceleration.
- **Audio:** MPEG-1 layers I/II/III, AAC LC, HE/HEv2, A/52 and A/52e.
- **Subtitles:** Teletext, DVB subtitles.

Formats:

- **Adaptive streaming:** HLS, MPEG-DASH, CMAF ingest.
- **Legacy Internet streaming:** RTMP, icecast.
- **T-STD compliant Transport Stream,** CBR.
- **SCTE-35 support** or jingle recognition for FAST channels.

Change-over and fail-over capabilities:

- **Switch to back-up stream** based on absence of stream, bitrate, missing PID/SID, frozen or black frame, TS discontinuities.
- **Fail-over to another server** without requiring a monitoring server.

Thanks to EasyTools transcoders, we distribute more than 20 FAST channels directly to the operator platforms, in multi-res HLS format with SCTE-35 markers ready for ad insertion.

Marc Brelot,
CEO at **Vizion'R**

EasyTools solution helped us create a distribution platform with automatic change-over to backup encoder or backup network, using two synchronized and redundant equipments.

Gilles Hakibilen,
Distribution Infrastructure Manager at **M6 GROUP**