tecom
GROUP

LA **Production**

File-based loudness measurement
and normalization

Loudness Analyzer is a line of desktop applications for on-air loudness control and file-based loudness measurement and normalization

Loudness Analyzer

LA Production

tecom GROUP

LA Production with Level Magic™ algorithm allows broadcasters to perform file-based loudness measurement and normalization in compliance with all current international standards while preserving high audio quality

Compliant with:

ITU-R BS.1770(-1/2/3)

EBU R128
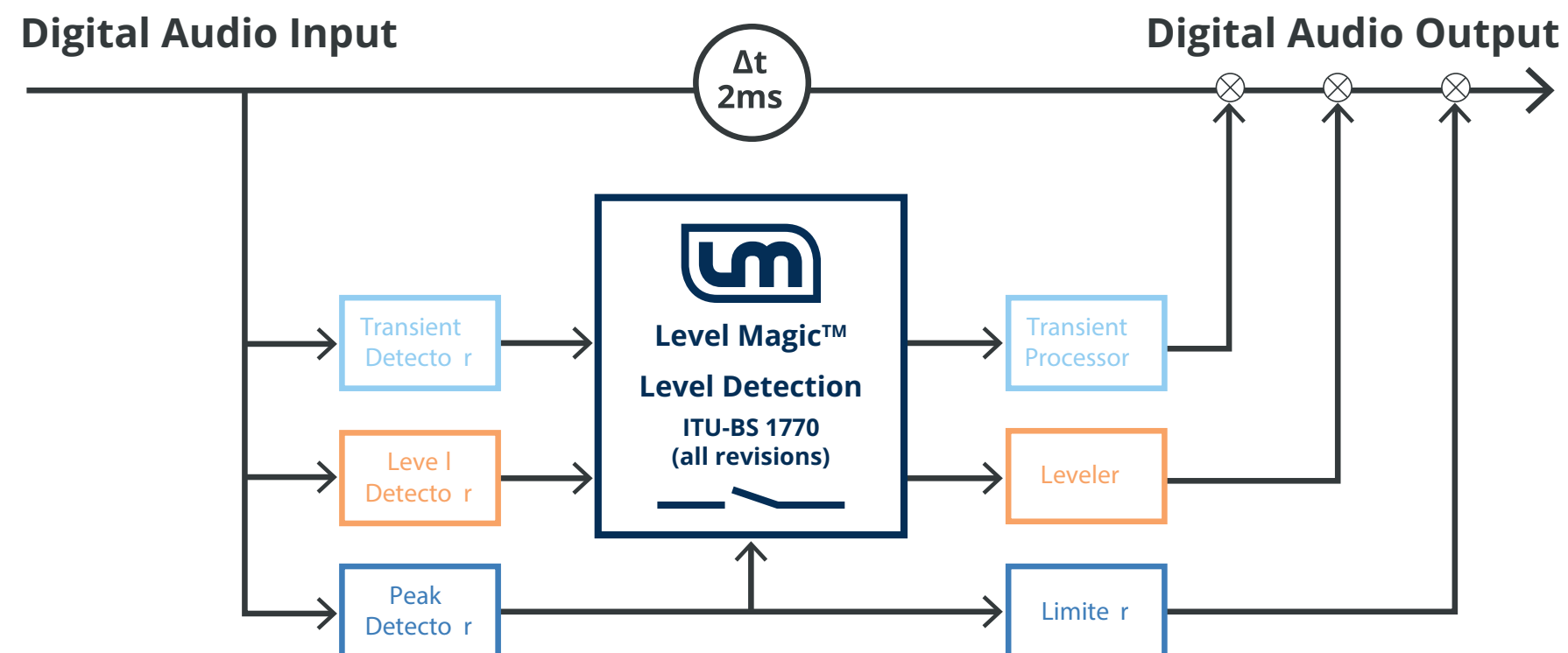
ATSC A/85

ARIB TR-B32

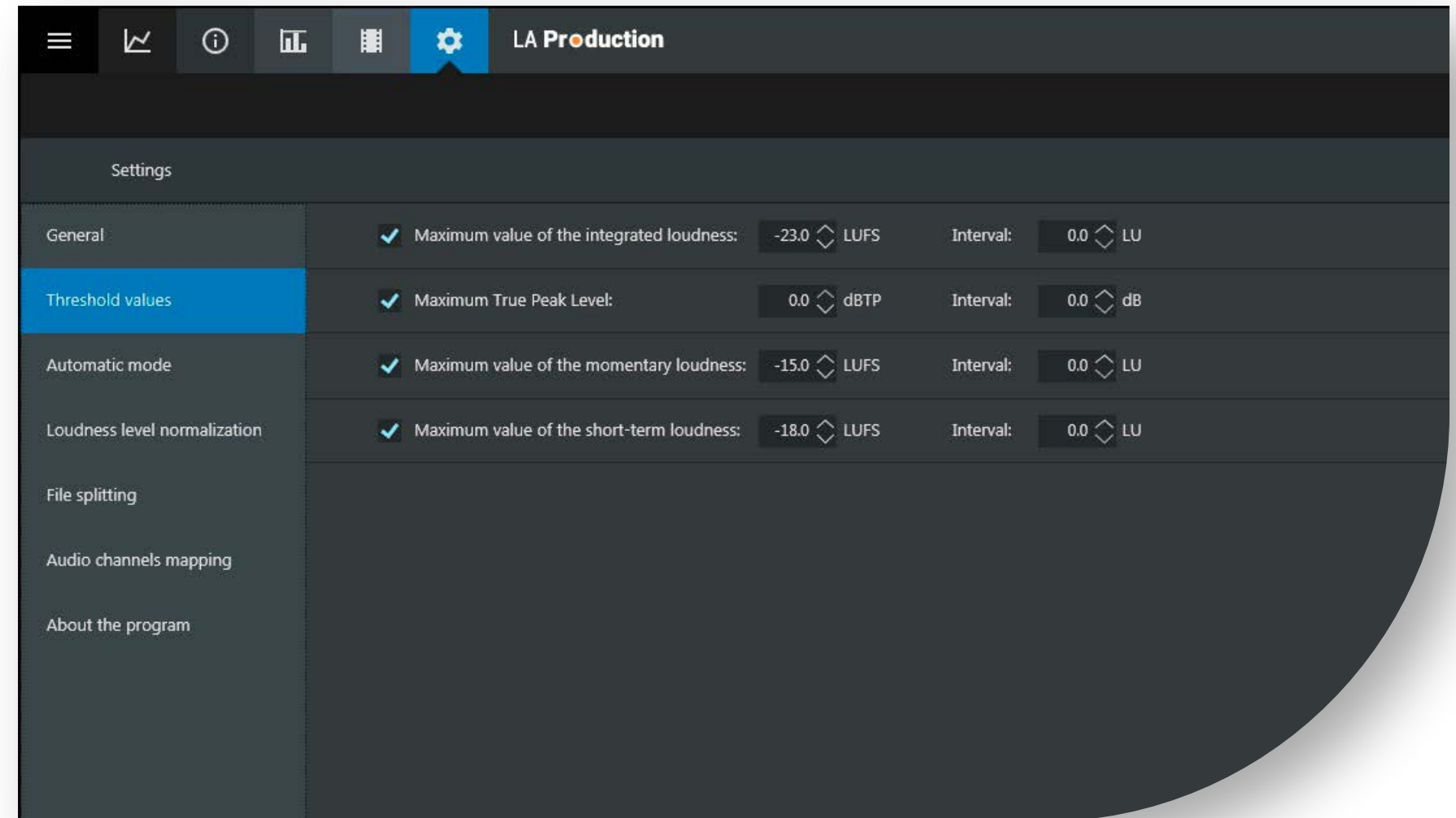FREE TV OP-59

Portaria 354

Level Magic™

LA Production utilizes the original Level Magic™ algorithm as an option

Developed by Jünger Audio, Level Magic™ is a sophisticated loudness control algorithm, that normalizes files with a multi-stage design: Adaptive Gain Control (AGC), Transient Processing and Brickwall Peak Limiting

As a result, the audio is compliant with the selected standard but free of any unwanted artefacts such as pumping, breathing or distortion

Digital Audio Input   **Digital Audio Output**

Δt 2ms

Transient Detector

Level Detector

Peak Detector

Level Magic™
Level Detection
ITU-BS 1770
(all revisions)

Transient Processor

Leveler

Limiter

The application allows adjusting
threshold values for integrated
loudness, true peak level,
momentary loudness
and short-term loudness

The application analyzes audio and video files and displays the most critical loudness values

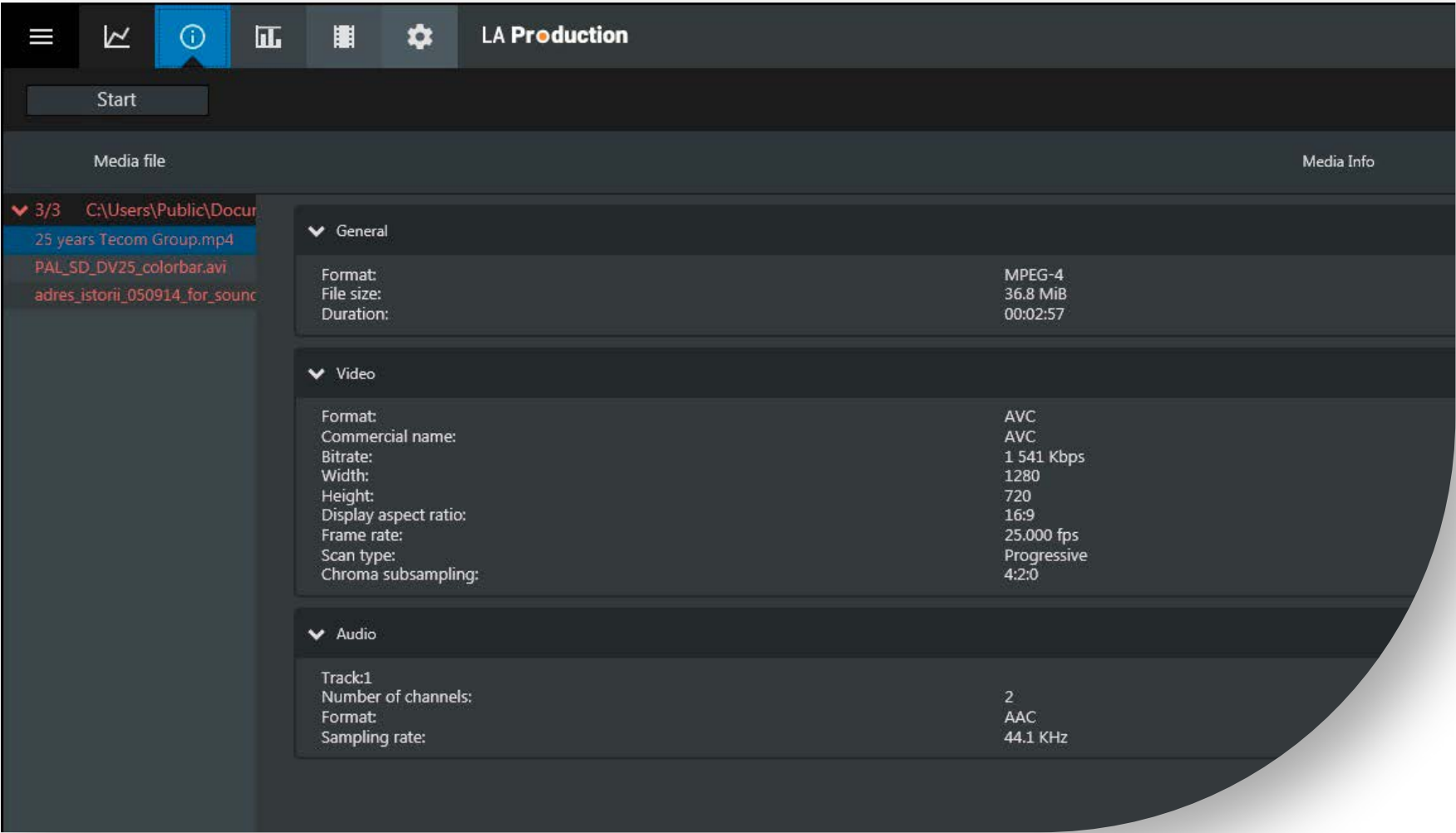If the predefined level is exceeded, the respective value and the file name are marked red
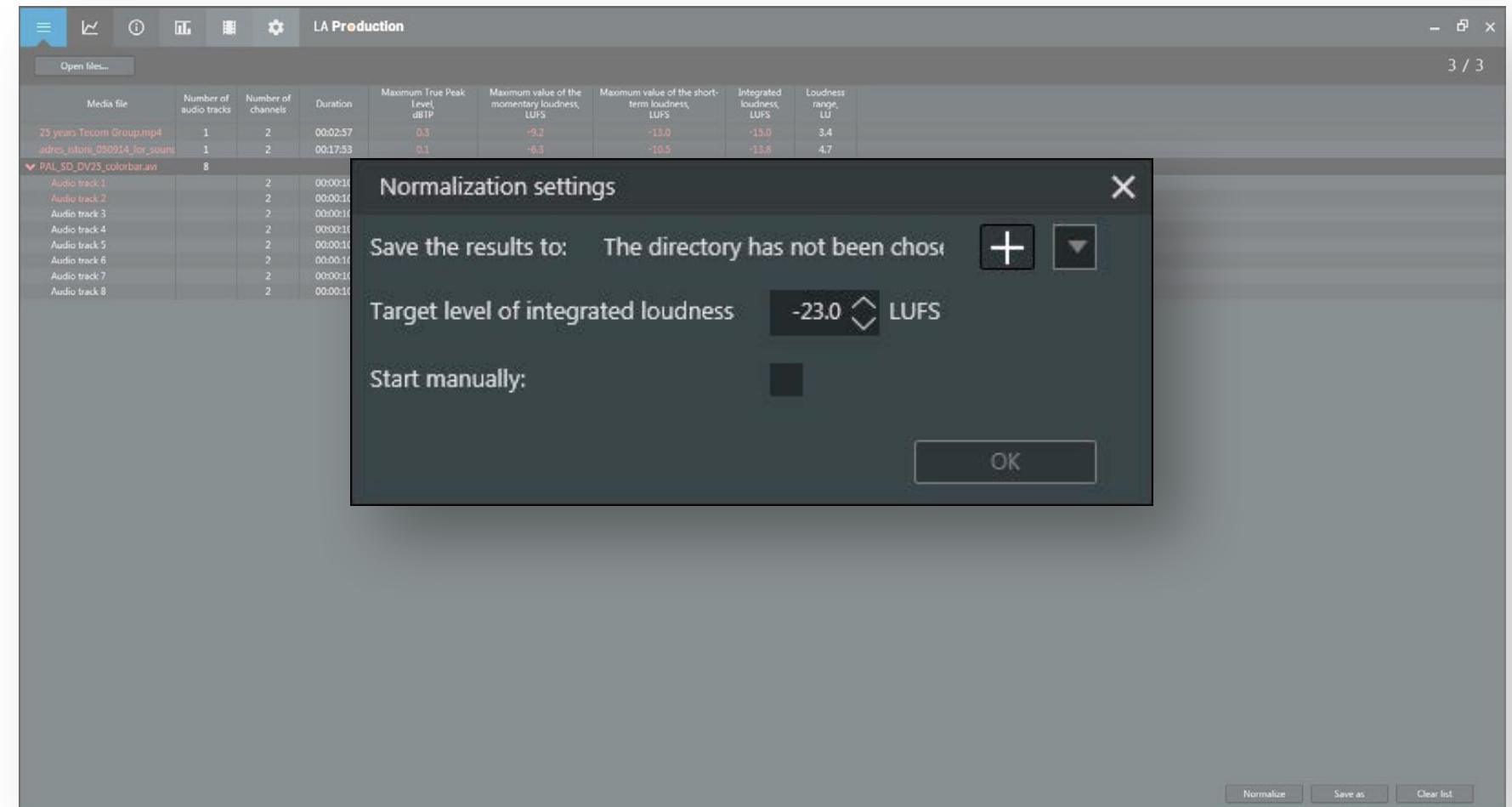
The charts with short-term and momentary loudness values are available in a separate window. It is possible to zoom in to get a close-up view
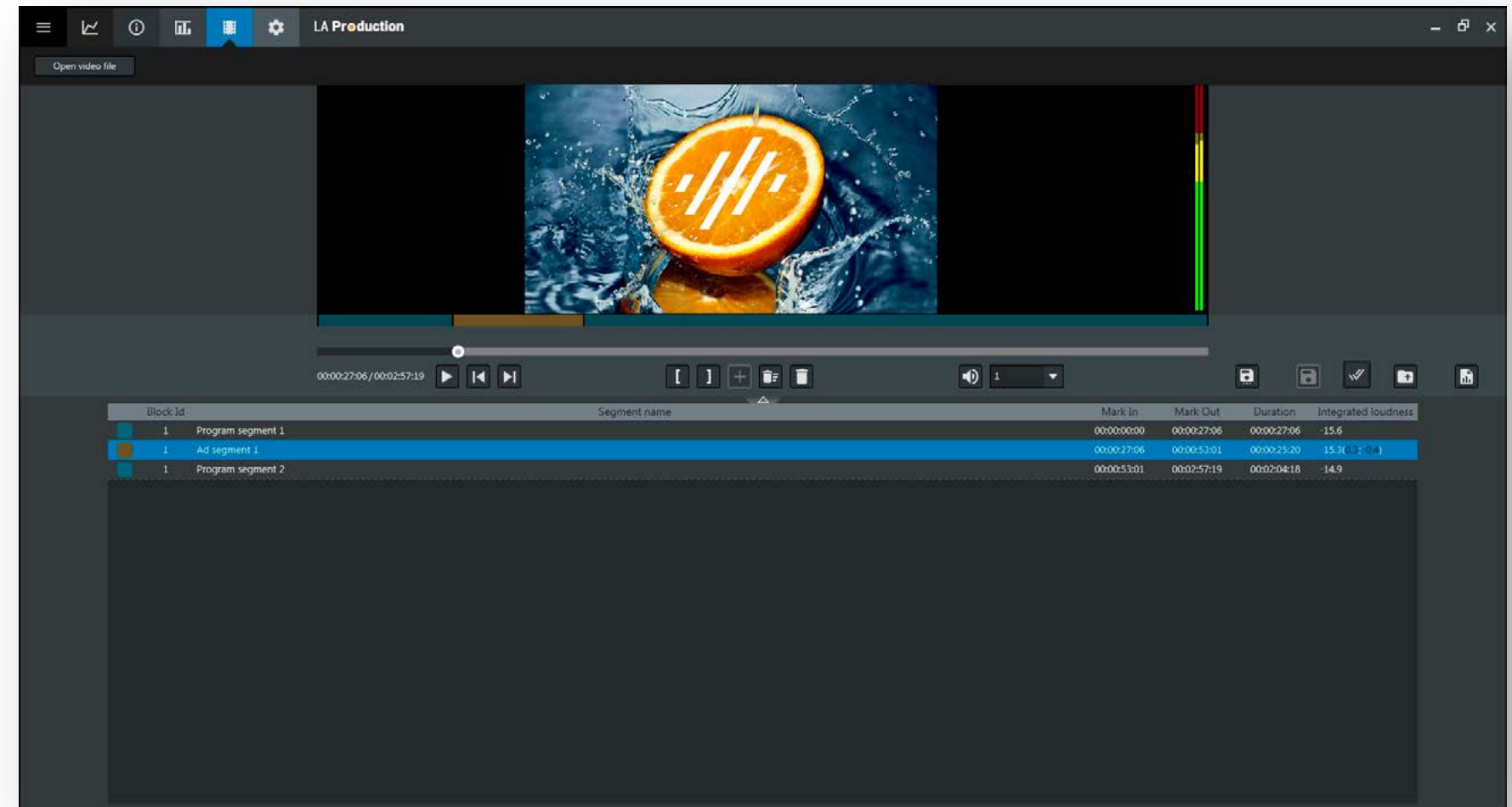
Media information about both video and audio files can be accessed through a separate window
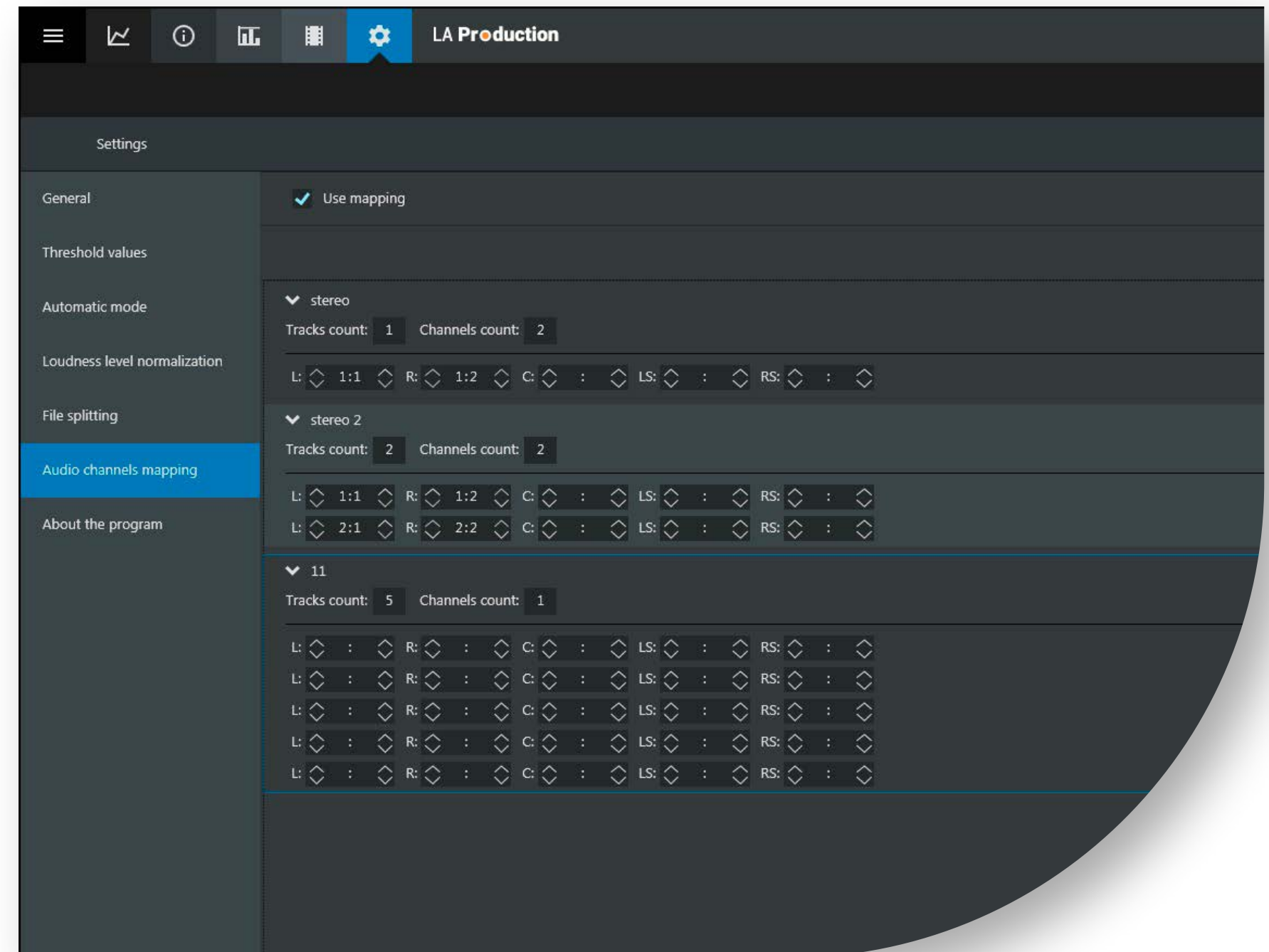
In case loudness discrepancies are revealed, Loudness Analyzer allows correcting audio level in accordance with the selected value

Video player allows the user to split videos into fragments and compare their loudness levels. It also might be used for the analysis of certain fragments of the comliance recording

LA Production

Audio channel mapping allows for bringing together channels from different audio tracks and having all them analyzed and normalized as it has been predefined in mapping settings

In auto mode, files from selected
folders are analyzed, and, if
any deviations from predefined
loudness values are identified,
the app normalizes their
loudness levels

LA Production

System requirements:

Processor: Intel Core i3

RAM: 4GB or higher

OS: Windows 7/8, 32/64bit

Supported formats:

Audio: .WAV

Video: .MXF   .AVI   .MOV

          .MP4   .FLV   .MPG

LA Production

tecom GROUP

Aleksey Dolgov

Vice President, R&D

✉ dolgov@tecomgroup.com

Daria Golyanina

Vice President, Business Development

✉ golyanina@tecomgroup.com