

BITPRESS

Built by post production professionals with over fifty years of collective experience in mastering.

AUTOMATED – FAST – INTELLIGENT

Bitpress develops tools that enable rapid monetization of content by automating traditionally laborious and complicated processes. We understand the challenge and cost of manipulating media. We have a history of innovation through automation for the largest and most respected post production and media companies in the world. We've authored many patents and engineered workflows for every major studio and the largest OTT providers.

For a personalized demo or information:

info@bitpress.com

www.bitpress.com

BITPRESS

AudioPress

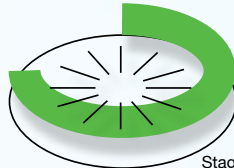
**RAPID, INTELLIGENT, AND PRECISE AUDIO
SYNCHRONIZATION OF ANY STANDARD,
LENGTH, OR LANGUAGE**

AudioPress™ leverages the massive scale of AWS to automatically synchronize alternate audio tracks to a guide track in a fraction of the time spent on manual processes. Unlike other solutions, AudioPress™ analyzes every audio sample to ensure audio files are matched to your guide track, not just at the head, but throughout the entire file.

AudioPress™ is designed to make the same decisions an audio engineer makes when they are tasked with syncing audio files to a guide track. AudioPress™ works with ALL languages, M&E, even descriptive audio tracks. AudioPress™ allows you to sync hundreds or thousands of files at the same time. With AudioPress™ you can finish large projects in days rather than months.

TIME FOR ONE CONFORM:

MANUAL AUDIO CONFORM:



Create work order	10 minutes
Stage content for operator	5 minutes
Load content into ProTools	5 minutes
Determine & apply offset of master to wild audio	30 minutes
Spot check project & listen for phase differences	30 minutes
Export conformed audio	5 minutes
Copy conformed audio file to final destination	5 minutes
Complete work order	5 minutes

TOTAL TIME 95 minutes

AudioPress



Create job CSV	1 minute
Stage content to S3	5 minutes
Conform, export & copy to final destination	5 minutes

TOTAL TIME 11 minutes

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COMPARE TO THE COMPETITORS:

	BITPRESS	COMPETITORS
<u>Syncs audio at head</u>	Fully Supported	Fully Supported
<u>Works with all languages</u>	Fully Supported	Partially supported
<u>Works with M&E</u>	Fully Supported	Partially supported
<u>Works with Descriptive Audio Tracks</u>	Fully Supported	Partially supported
<u>Auto-scales to complete >10K audio conforms per day</u>	Fully Supported	Not Supported
<u>Changes speed (w/pitch correction) from 25 fps to 23.98 automatically</u>	Fully Supported	Not Supported
<u>No additional software required</u>	Fully Supported	Not Supported
<u>File duration precisely matched</u>	Fully Supported	Not Supported
<u>Checks every audio sample</u>	Fully Supported	Not Supported
<u>Checks audio duration at head and tail</u>	Fully Supported	Not Supported
<u>Automatically creates any output file spec</u>	Fully Supported	Not Supported
<u>Does not require video on guide track</u>	Fully Supported	Not Supported
<u>Use your AWS S3 storage</u>	Fully Supported	Not Supported
<u>Works in any AWS region</u>	Fully Supported	Not Supported
<u>Adjustable sync tolerance settings</u>	Fully Supported	Not Supported
<u>Watchfolder configured to auto-create orders</u>	Fully Supported	Not Supported
<u>Works with short form content (30 seconds to 5 minutes)</u>	Fully Supported	Not Supported
<u>Does not require stems, uses full mix</u>	Fully Supported	Not Supported
<u>Provides feedback on files that cannot be conformed</u>	Fully Supported	Not Supported
<u>Fully automated results</u>	Fully Supported	Not Supported
<u>Simple CSV order submission</u>	Fully Supported	Not Supported
<u>Fully documented API available</u>	Fully Supported	Not Supported
<u>Job summaries always available</u>	Fully Supported	Not Supported
<u>Automatically performs full QA on conformed output</u>	Fully Supported	Not Supported
<u>Syncs audio when commercial break edits are present</u>	Now Fully Supported	Not Supported

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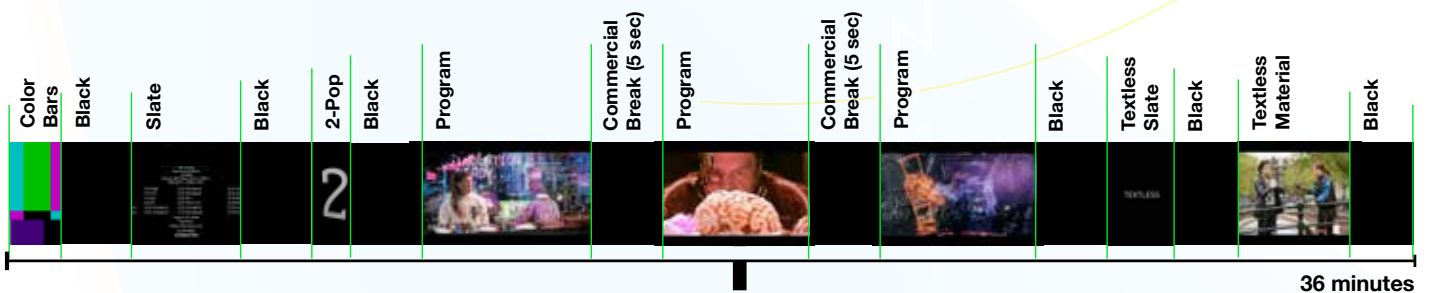
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VideoPress

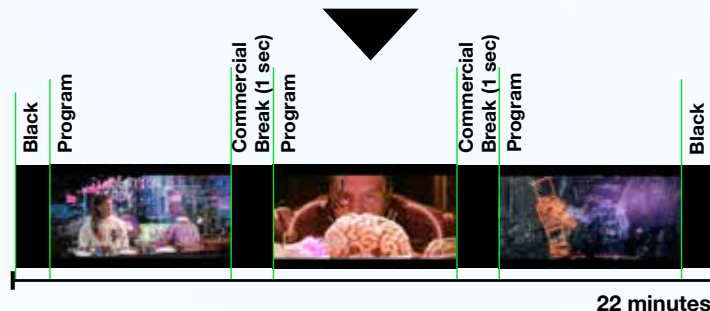
AUTOMATED NORMALIZATION AND MASTERING FOR LARGE AND SMALL VIDEO LIBRARIES

VideoPress™ automatically analyzes and normalizes all of your video content to achieve the best possible quality and a known start state. VideoPress™ logs all content events, then automatically determines when to apply 3/2 removal, intelligent deinterlacing, 4th frame repeat removal, header/footer removal, VBI removal, aspect ratio correction and more. VideoPress™ can also automatically insert, modify or remove commercial blacks.

Based on interrogation of the actual video material, not unreliable file metadata, VideoPress™ makes the right choice every time to save you time and money with downstream processing and distribution.



TOP SECRET VideoPress™ PROCESS



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COMPARE **VideoPress** TO THE COMPETITORS:

	BITPRESS	COMPETITORS
<u>Performs deep analysis of actual video material</u>	Fully Supported	<u>Partially supported</u>
<u>Automatically determines best path to best video quality</u>	Fully Supported	<u>Not Supported</u>
<u>Automatically corrects many common issues</u>	Fully Supported	<u>Not Supported</u>
<u>Automated head/tail formatting removal (as required)</u>	Fully Supported	<u>Not Supported</u>
<u>Automated commercial black removal/modification</u>	Fully Supported	<u>Not Supported</u>
<u>Automatic cadence correction and 3/2 removal (as required)</u>	Fully Supported	<u>Not Supported</u>
<u>Automatic 4th frame repeat detection and removal</u>	Fully Supported	<u>Not Supported</u>
<u>Automatic adaptive deinterlacing (as required)</u>	Fully Supported	<u>Not Supported</u>
<u>Converts frame rates automatically</u>	Fully Supported	<u>Not Supported</u>
<u>Automatic VBI detection and removal</u>	Fully Supported	<u>Partially supported</u>
<u>Automatically creates any output file spec</u>	Fully Supported	<u>Fully Supported</u>
<u>Automatic logging of all content events</u>	Fully Supported	<u>Fully Supported</u>
<u>Automatic logging of potential ad breaks</u>	Fully Supported	<u>Not Supported</u>
<u>Line 21 caption extraction</u>	Fully Supported	<u>Partially Supported</u>
<u>Automatic thin raster detection and correction</u>	Fully Supported	<u>Not Supported</u>
<u>R128 / ITU 1770-3 audio loudness normalization (as required)</u>	Fully Supported	<u>Fully Supported</u>
<u>Simple CSV order submission</u>	Fully Supported	<u>Not Supported</u>
<u>Fully documented API available</u>	Fully Supported	<u>Fully Supported</u>
<u>Job summaries always available</u>	Fully Supported	<u>Fully Supported</u>

BITPRESS

MasterPress

AUTOMATED MASTER FILE ANALYSIS, CREATION, AND AUGMENTATION

MasterPress™ uses temporal fingerprinting, spatial correlation and machine learning to automatically accomplish a variety of tasks for relational and single-source operations:

- Textless master creation
- Picture-to-picture master creation
- Main title and end sequence detection
- MAM/DAM asset deduplication
- Version delta reporting
- Aspect ratio error detection
- Rendition verification
- Interstitial content and commercial black detection



AVAILABLE Q4 2022

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COMPARE MasterPress TO THE COMPETITORS:

	<i>BITPRESS</i>	<i>COMPETITORS</i>
<u>Uses machine learning, temporal fingerprinting, and spatial correlation to analyze video</u>	Fully Supported	<u>Partially supported</u>
<u>Automated textless master creation</u>	Fully Supported	<u>Not Supported</u>
<u>Automated picture to picture master creation</u>	Fully Supported	<u>Partially supported</u>
<u>Automated commercial black detection, removal, or modification</u>	Fully Supported	<u>Not Supported</u>
<u>Automated commercial black creation/insertion</u>	Fully Supported	<u>Not Supported</u>
<u>Automated EDL export to CSV</u>	Fully Supported	<u>Partially supported</u>
<u>Automatic main title and end sequence detection and reporting</u>	Fully Supported	<u>Not Supported</u>
<u>Automated duplication detection and reporting</u>	Fully Supported	<u>Not Supported</u>
<u>Automatic version delta detection and reporting</u>	Fully Supported	<u>Partially supported</u>
<u>Automatic interstitial content detection</u>	Fully Supported	<u>Partially supported</u>
<u>Automated aspect ratio error detection and correction</u>	<u>Partially supported*</u>	<u>Not Supported</u>
<u>Simple CSV order submission</u>	Fully Supported	<u>Not Supported</u>
<u>Fully documented API available</u>	Fully Supported	<u>Fully Supported</u>
<u>Job summaries always available</u>	Fully Supported	<u>Fully Supported</u>
<u>Fully automated results</u>	Fully Supported	<u>Not Supported</u>

*Requires additional sample files in order to support