

Expand Your Capabilities to Play and Convert Proprietary Video

The Video Integration Suite (VIS) is a powerful back-end API based solution that allows applications to play and convert proprietary video formats including surveillance, in-car, body worn, mobile and many other video sources. This simple .NET API provides developers access to the same playback and conversion engine that powers iINPUT-ACE. Files processed through VIS are converted into lossless MP4 files, maintaining video evidence at the highest quality.

Video cameras are everywhere, in fact every day, 6 billion hours of video are recorded globally. Whether your platform processes video from mobile phones, body worn camera or Digital CCTV, video evidence uses thousands of different file formats that cannot be played directly. As a result, instead of uploading this content to your platform, investigators will try to find a codec that plays the video back and, in many cases, never take advantage of your platform's capabilities. Complicating this further, the investigators may never realize the true impact that a generic player or converter can have. Unfortunately, many investigators have created unique ways to try to manage these original source files, which can result in breaking the chain of custody.

Since many player applications (often including the CCTV manufacturer's own software) can lead to dropped frames, stretched objects, and inaccurate colors that cause challenges for video related investigations, and disclosure requirements, ultimately impacting your platform's ability to accurately leverage converted video files.

Key Benefits

- ✓ Seamlessly convert non-standard formats so they can play within your platform.
- ✓ Eliminate dropped frames and other errors from faulty file conversion.
- ✓ Completely lossless MP4 output.
- ✓ Hash validation for verifying lossless evidence.
- ✓ Keep all your evidence in one place.



+ Thousands More

Video Integration Suite API

VIS

by iINPUT-ACE

Standard Format (Cloud Compatible)



Integrations For VIS

Analytics - The first casualties of digital video compression are image quality and accuracy, which impacts video analytics algorithms. When importing video content into your analytics solution, it is important that the image quality is maintained. However, surveillance camera technology produces thousands of different file formats that cannot be loaded directly into analytical solutions without first being converted. Converting videos with the wrong tool can drop video frames, change object shapes, and affect color values – all of which degrade the success of analytics tools.

Evidence Management Systems - These systems are designed to store electronic evidence, but often require users to download and review video evidence on their desktop. This increases the chance that the videos will have challenges for video- related evidence and disclosure requirements. Because Many commercial player applications can alter the video in ways that misdirect critical cases, having the ability to play the video evidence correctly and being able to convert it to a lossless format is critical.

Redaction Tool – Redaction requires perfection a slipped facial blur, a skipped image, a misinterpretation of color values, or an incorrectly displayed shape can easily expose a protected face – threatening the lives of under-cover agents or compromising the innocent.

How We Do It

Proprietary video files are always a challenge. Solving this challenge requires identifying how the DVR manufacturer has “masked” their video. As a technical example, some manufacturers will flip every third byte of data so that it appears out of order in the file. When the iINPUT-ACE development team adds support for a new format, we are identifying patterns at the binary level that can be used to “solve the puzzle” and make the content playable again. Since many manufacturers use similar puzzles, adding support for new formats will commonly add support for dozens of other formats by different manufacturers. During conversion, the engine will hash every frame of video to prove that no pixel values have been adjusted and every image is identical to the original.

With our VIS offering, you get immediate access to the newest innovations in playback and conversion.

About iINPUT-ACE

At iINPUT-ACE, our mission is to empower investigators with intuitive tools, expert training, and comprehensive support to further video-centric investigations. We strive to ensure every investigator can extract actionable intelligence from video evidence without being slowed down by the technical challenges that are common in video files.

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