

# Control and Operation: Your Way

## DVR Control Software Options for the DVR Express® Core

### Overview

The DVR Express Core is a PC peripheral device, controlled by a software application running on a nearby PC system. There are different software packages available that can be used to control and operate the DVR Express Core. The software package must be selected depending on the operational requirements and how the system will be used.

### IO Industries CoreView

CoreView is a simple-to-use application, created to allow easy configuration and operation of one or more DVR Express Core devices. CoreView allows each connected camera to be controlled and displayed independently or together with other cameras as a group. During recording, live video is displayed (possibly at a reduced resolution). Once recordings have been created, the video can be exported to a selection of common image and movie file types. Best of all, CoreView is free to use and included with each DVR Express Core.

CoreView is designed solely for the purpose of controlling recording using the DVR Express Core hardware. If other streams of data need to be recorded along with video (such as GPS position information, audio channels, etc.), IO Industries Streams 5 software can be used.

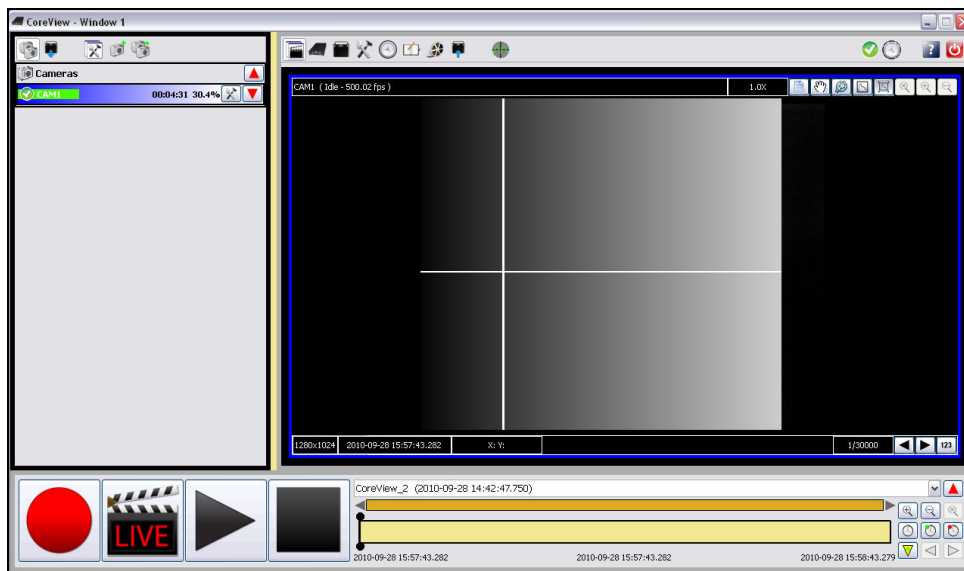


Figure 1: IO Industries CoreView

### Features Available using a Premium DVR Express Core

Using a “Premium” DVR Express Core will unlock a set of features in CoreView that are not available for Standard Core devices. These are an extension of the basic functions of CoreView and fully exploit the hardware capabilities of the DVR Express Core. These features include:

- Simultaneous DVR operations (Review during recording, export during recording, live during export, etc.)
- Ability to create multiple CoreView windows (allows extended desktop or full-screen view on secondary display)
- Image Stitching (configurable interleaving of images from multiple camera outputs)
- RAID protection during recording (RAID-1 mirroring or RAID-3 parity protection)
- External time synchronization (synchronize video timestamps to IRIG or GPS time)

## IO Industries Streams 5

Streams 5 is designed to record data from several types of devices, including video, audio, GPS and other data types. Timing filters are available to synchronize all recorded data with external timing sources for accurate correlation between data sets. For customization, Streams 5 has a Python scripting interface, allowing common actions and operations to be automated. Streams 5 also has a fully featured C++ software developer's kit (Streams 5 SDK), allowing users to create custom plug-in modules for Streams 5 or integrate the operations of Streams 5 into a 3rd party application.

A software license key is required in order to use Streams 5 to record data. However, once data has been recorded, it can be viewed using Streams 5 without requiring the software license key. For example, video can be recorded using CoreView, and then reviewed using Streams 5. This allows powerful features of Streams 5 to be used, such as data exporting or archiving.

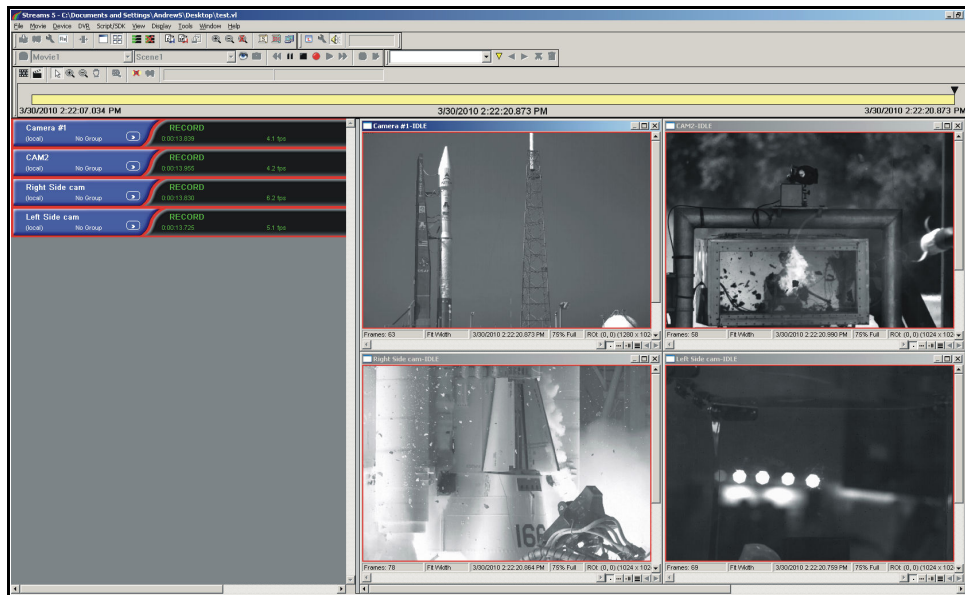


Figure 2: IO Industries Streams 5

## Custom-Designed Application using Core API SDK

The Core API SDK is a C++ class library that allows developers to control the DVR Express Core from any software application. For specialized recording solutions, creating an application using the Core API allows the software to be tailored for specific purposes. All of the features available using CoreView can be integrated into a custom-built application using the Core API SDK. A Premium Core must be used to access the "Premium-only" features listed above.

Established in 1991, IO Industries Inc. designs Digital Video Recording (DVR) systems for applications in manufacturing, research, broadcast and entertainment. IO Industries offers both PC-based and standalone embedded DVR systems.

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