

IC Realtime NVR for Control4 Driver Integration Guide v102

Introduction

This driver has been designed to provide two-way control of IC Realtime NVR devices, via Ethernet.

There is support for the following features:

- NVR OSD Control using cable TV proxy UI
- Physical I/O connections
- Events including IVS and Advanced Intelligence function

It is recommended that this driver is used on systems running OS3.3 or later.

ICRealtime Configuration

It is recommended that the ICRealtime system be installed, configured and tested by a suitably qualified engineer, according to ICRealtime documentation, prior to integration with this driver. Please ensure that the NVR and cameras are accessible through the NVR web interface before integrating with the driver. Please ensure that the NVR is configured to use a static IP address.

Driver Installation

Copy the driver files from the zip package to your Control4 driver location (by default this is Documents/Control4/Drivers). Open Composer and choose the Search tab from the Items pane.

The screenshot shows the 'Items' pane in the Control4 Composer interface. It features a search bar with a 'Clear' button and a 'Search' tab. Below the search bar are filters for 'Local', 'Online', and 'Certified' (all unchecked), and a 'Category' dropdown set to 'All'. There are also dropdowns for 'Type', 'Manufacturer', and 'Control', all set to 'All'. A 'Sort' dropdown is set to 'Relevance'. The list of items includes:

Item Name	Details	Date
IC Realtime NVR	IC Realtime Cable IP	21/12/2022
IC Realtime PTZ Camera	IC Realtime Camera IP	21/12/2022
IC Realtime Camera	IC Realtime Camera IP	21/12/2022

Add one instance of the NVR driver into your project per NVR device. Enter the IP address of the device in the composer connections tab.

The Username and Password properties should be filled in as the system uses Digest authentication.

Driver Configuration

Properties

In the System Design view, select the device to view all available properties for setup:

Driver Version - Displays the driver version in use.

Operational Mode - Displays the operational status

Username - Username used for authenticating with device

Password - Password for authenticating with device

Debug Mode - For Dev use only

Debug Subsystems - For Dev use only

Debug Level - For Dev use only

OSD

If a display device is connected to the NVR via HDMI, then to select the NVR as the source for the display, connect AV Out HDMI connection in composer to the HDMI connection of the TV/Display driver that is physically connected to the device. Refresh navigators, and then in any navigator, select the Watch menu, and you will then see a device that can be selected to control the NVR OSD.

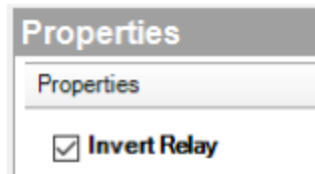
Functionality supported includes:

- Menu, Cancel, select and cursor control for navigating menu display on the OSD
- Transport controls for playback
- To select a different camera channel type * followed by the channel number
- To select a different grid view, type # followed by the size of the grid to display (1, 4, 8, 9, 16, 25, 36, 64 dependent on nvr model)

The Menu key opens the File Playback Menu for the current channel. This feature operates on a single split view and is only available for NVR-EL32, EL64, and EL128 models with a firmware build date of 2021-10-28 or newer.

Physical I/O

In the Composer connections tab for the NVR, Alarm Output X relay connections exist for the NVR, that correspond to the physical Relays on the NVR. These can be connected to Generic Relay Control4 devices (for example), for both control and feedback of the relays. If using a Control4 generic relay device, the Invert Relay property needs to be set on the relay property page:



Events

In Composer Connections, there is an Inter-Driver Management connection that is automatically bound to each IC Realtime camera driver as it gets added to the Control4 project. The NVR driver is constantly listening for events from the NVR, and when it receives an event for a camera it knows about, it forwards it on to the corresponding camera driver. If instead, it is desired to use a camera driver independently from the NVR, then just remove the inter-driver connection binding to the camera, and the camera driver will not receive events from the NVR.

Troubleshooting

For assistance configuring your IC Realtime NVR driver, please contact IC Realtime via the following method:

Web: <https://icrealtime.com/contacts>

If you require assistance using the drivers, please raise a support ticket here:

<http://janustechnology.co.uk/support/>