



Integration Note

Manufacturer:	IC Realtime
Model Number(s):	NVRs and Cameras
Core Module Version:	g! 8.7
Comments:	
Document Revision Date:	11 January 2023

OVERVIEW AND SUPPORTED FEATURES

This driver is for the IC Realtime NVR and Camera surveillance solutions.

THE FOLLOWING FEATURES ARE SUPPORTED BY THE DRIVERS :

- Integration of NVR as a media source in Elan (for example to bind to a display driver). This provides a UI in Elan to control the NVR OSD.
- Integration as an I/O Generic Device in Elan providing camera events.
- Event map commands for NVR relay outputs and camera wiper blade.

As the cameras are ONVIF compatible, the Elan ONVIF Video Source (Dynamic) driver can be used to support camera live feeds and PTZ control etc.

THE FOLLOWING FEATURES ARE NOT SUPPORTED BY THE DRIVER:

Any feature not specifically noted as supported should be assumed to be unsupported.
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- N/A

CONFIGURATION

It is recommended that the product is installed and configured by a suitably qualified engineer, prior to integration with this driver.

Please ensure that the devices (e.g. NVRs, cameras) are on the same network as the Elan processor.

For NVR OSD control, you will need to enable “Anonymous GUI Playback” under Main Menu> Advanced Settings> Security> System Service. This option is only available on the local interface. This feature is only available on some recorders with 4.0 GUI firmware. Only the Elite family firmware NVRs support the file-based playback features (build date of 2021-10-28 or newer).

g! CONFIGURATION

The release package contains the following driver files for IP control:

ICRealtime_Nvr_media_src_ip.EDRVC – Media Source driver for control of NVR OSD

ICRealtime_Camera_ip.EDRVC – Generic Device driver providing event map commands and events for single standalone IP camera.

ICRealtime_Camera_x_to_y_ip.EDRVC – Generic Device driver providing eventmap commands and events for NVR controlled cameras (camera x..camera y)

NVR Media Source Configuration

It is recommended that you follow the below installation process to ensure you are running the latest version of the driver.

1. Obtain the latest version of the driver, as described above, and ensure you know the location of the extracted EDRVC driver files on your computer's hard drive.
2. From the **Media** tab, right click on the **Sources** heading and select **Add New Generic Media Source**.
3. From the **Add New Generic Media Source** window, choose **Search Folder** and navigate to your driver location, before clicking **OK**.
4. Select the driver for the device and click **OK**.
5. Enter the Username, Password, and IP address of the NVR to connect to.

To see the media source in Elan user interfaces, you will need to add the media source as a source input to another driver for example an Elan Custom Video Display driver.

Generic Device driver configuration

It is recommended that you follow the below installation process to ensure you are running the latest version of the driver.

1. Obtain the latest version of the drivers, as described above, and ensure you know the location of the extracted EDRVC driver files on your computer's hard drive.
2. From the **Input/Output** tab, right click on the **Generic Serial Devices** heading and select **Add New Generic Serial Device**.
3. From the **Add New Generic Serial Device** window, choose **Search Folder** and navigate to your driver location, before clicking **OK**.
4. Select the driver required (see below) and click **OK**

*The **ICRealtime Camera ip** driver should be connected directly to a **camera** and provides event map events and commands for a single standalone IP camera.*

*The **ICRealtime Camera_x_to_y ip** driver should be connected directly to an **NVR** and provides event map events for NVR camera channels x to y. In the case of **ICRealtime_Camera_1_to_10 ip**, this driver also provides event map commands to turn on and off the NVR relay outputs*

5. Enter the Username, Password, and IP address of the device to connect to.

SUPPORTED EVENT MAPS

The following event map EVENTS can be accessed from:

Event mapper > Add Event > Generic Device > ICR realtime NVR_media_src ip

Button Pressed

– Options Blue, Green, Red, Yellow

These events can be used to fire any command from the event mapper when one of the color buttons is pressed in the media source UI – e.g to fire any Media Source command below

The following event map EVENTS can be accessed from:

Event mapper > Add Event > Generic Device > ICR realtime Camera ip

Event mapper > Add Event > Generic Device > ICR realtime Camera_x_to_y ip

Camera x Events

- Options include intensity changed, motion detection event, tripwire event and others

The above options are defined for each camera channel

The following event map COMMANDS can be accessed from:

Event mapper > Add Command > Generic Device

ICRealtime Camera ip: Wiper Off – Turns off wiper blade on supported cameras

ICRealtime Camera ip: Wiper On – Turns on wiper blade on supported cameras

ICRealtime Camera_1_to_10 ip: Alarm Output X off – Turns off Alarm Output X on supported NVRs

ICRealtime Camera_1_to_10 ip: Alarm Output X on – Turns on Alarm Output X on supported NVRs

The following event map COMMANDS can be accessed from:

Event mapper > Add Command > Media Source

ICRealtime NVR_media_src ip : <UI Button> - triggers each of the buttons in the UI for the media source.

Examples:

HDMI OSD Channel Selection

To select channel 4 on the NVR HDMI OSD send commands:

*ICRealtime NVR_media_src ip :Digit **

ICRealtime NVR_media_src ip :Digit 4

HDMI OSD Split Screen

The HDMI OSD can be split to 1, 4, 8, 9, 16, 25, 36, or 64 channels (Dependent on the split views supported by that model recorder).

To show split 16 view on the NVR HDMI OSD send commands:

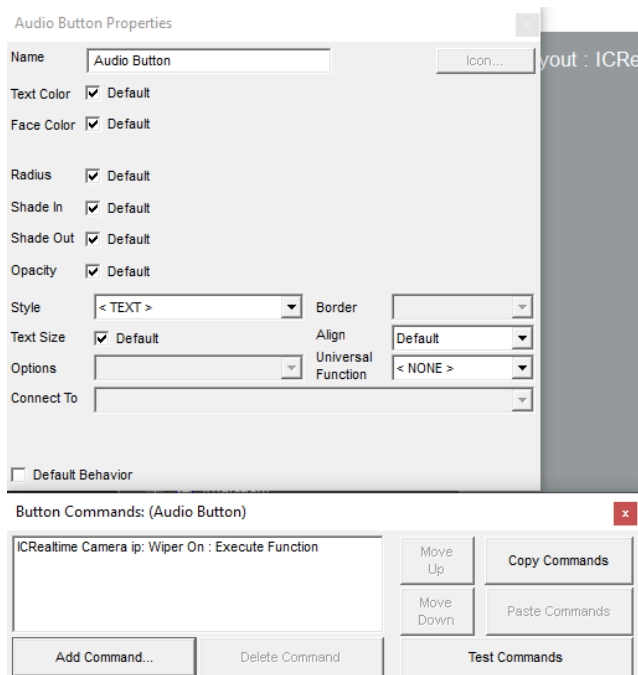
ICRealtime NVR_media_src ip :Digit #

ICRealtime NVR_media_src ip :Digit 1

ICRealtime NVR_media_src ip :Digit 6

CUSTOM PAGES

In Elan UIs e.g. the media source driver pages or a new custom source - audio buttons can be added to the pages, and the commands set to trigger commands in our drivers. On the audio button properties, uncheck **Default Behaviour** (bottom left) and in the popup that opens click **Add Command...** to add custom commands (e.g. to turn on wiper):



COMMON MISTAKES

1. Ensure that the cameras and NVR are accessible through the NVR web interface and live feeds are working. Make sure that the Elan processor is on the same subnet.
2. Ensure the IP address is entered correctly along with the username and password fields in configurator, and the latest version of the drivers are installed.
3. If the HDMI OSD is not controllable from the Elan media source please ensure that you can control the OSD using a mouse plugged directly into the USB port on the NVR. The local OSD may ask for username/password. Also check that the "Anonymous GUI Playback" option is enabled, and that your NVR supports this feature.