

IC Realtime PTZ Camera for Control4
Driver Integration Guide
v102

Introduction

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

There is support for the following features:

- Pan, Tilt, Zoom functionality
- Camera events
- Snapshot
- RTSP live view
- Wiper blade control relay (supported models only)

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 camera is visible and controllable through the web interface before integrating with the driver.

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 has tabs for 'Locations', 'Discovered', 'My Drivers', and 'Search'. The 'Search' tab is active. Below the tabs is a search bar with a 'Clear' button. There are checkboxes for 'Local' (checked), 'Online', and 'Certified'. To the right of these is a link for 'Advanced' with an upward arrow. Below these are four dropdown menus: 'Category - All', 'Type - All', 'Manufacturer - All', and 'Control - All'. At the bottom of the filters is a 'Sort' dropdown set to 'Relevance'. The main area displays a list of discovered devices:

Device Name	Details	Icon	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 PTZ Camera driver into your project per device. Check the Hostname/IP address, Username and Password properties of the device in the Camera properties tab and ensure that the RTSP (H.264) Port is correct. Check the authentication Type is correct (Basic or Digest - default is Digest)

Properties

Properties

Camera Properties **Camera Test**

Address

Hostname / IP Address:

HTTP Port:

HTTPS Port:

RTSP (H.264) Port:

Snapshot Refresh Rate: Sec.

Publicly Accessible: ☐

Use HTTPS: ☐

Authentication

Required: ☒

Username:

Password:

Type:

Aspect Ratio:

If the camera is being used through an NVR, ensure that the channel property is set to the correct channel that the NVR is using for the driver. Also check that the Inter-Driver Management connection is bound to the NVR driver - else alarms will not be received. The camera Hostname/IP address property for this driver will be set by the NVR driver when the inter driver management binding is made.

Control & Audio Video Connections				
IC Realtime PTZ Camera				
Name	Type	Connection	Input/Output	Connected To
Control Inputs				
Inter-Driver Management	Control	ICREALTIME_INTERDRIVER_COMMS	Input	IC Realtime NVR->Inter-Driver Management

If being used as a standalone camera without an NVR, ensure that the channel property is set to 1. Also check that the Inter-Driver Management connection is NOT bound to anything. In this case alarms will be received directly from the physical camera device (rather than an NVR).

Properties Documentation Lua	
Driver Status	
Driver Version	0
Operational Mode	http control:(OK) eventStream:(OK)
Configuration	
Channel	1
Stream Type	substream
PTZ Arg1 Type	5
Horizontal Speed	2
Vertical Speed	3
Debug	
Debug Mode	Print
Debug Subsystems	*
Debug Level	5

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

Channel - Channel that this camera is controlled by

Stream Type - Which stream to use for snapshot and live feed. Recommended to avoid the main stream, and instead use substream or third stream if camera supports it.

PTZ Arg1 Type - This should be set to 5 for most cameras.

Horizontal Speed - PTZ Pan speed slowest is 1, fastest is 8

Vertical Speed - PTZ Tilt speed slowest is 1, fastest is 8

Debug Mode - For Dev use only

Debug Subsystems - For Dev use only

Debug Level - For Dev use only

Programming

The following events may or may not be available based on whether they are supported by the camera device and NVR in use, and whether the events have been enabled in the device (e.g. via web interface):

- motion detection event
- human smart motion detection
- Vehicle smart motion detection
- video loss detection event
- video blind detection event
- alarm detection event
- tripwire event
- intrusion event
- abandoned object detection
- missing object detection
- scene change event
- face detect event
- intensity change
- input abnormal
- defocus detect event
- loitering detection event
- People Gathering event
- parking detection event
- fast moving event
- storage not exist event.
- storage failure event.
- storage low space event.
- alarm output event.
- temperature alarm event
- crowd density overrun event
- fire warning event
- placement object detection
- removal object detection

Please ensure that the event you wish to program has been enabled on the device.

Troubleshooting

- Some camera commands perform differently depending on whether the commands are sent directly to a camera or via an NVR. This includes horizontal/vertical camera speed (properties), and move to (C4 touchscreen point and move commands).
- Some commands don't work with some cameras unless the correct PTZ Arg1 type is set (5 for most cameras, but some cameras use 0).

For assistance configuring your IC Realtime PTZ Camera 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://janustechology.co.uk/support/>