Application note
IP camera support in HC2 / HC2L touch panels

iddero

INTRODUCTION

This application note describes IP cameras that can be used with the Iddero HC2-KNX and HC2L-KNX touch panels.

IP camera support requires version **1.5** or later of the touch panels' firmware and configuration software. This document is based on firmware version **1.7**.

CONFIGURATION

IP cameras to be monitored must be defined in the Iddero configuration software. Before proceeding, please make sure you have selected "HC2-KNX" or "HC2L-KNX" in the "System type" field of the "Project" section. This will allow you to add IP cameras in the "IP cameras" section.

The type of each IP camera (manufacturer and model) must be defined in the configuration software and cannot be modified from the touch panel. Communication parameters such as IP addresses, port numbers, user names and passwords can be modified by the end user from touch panel.

PRECONFIGURED MODELS

Manufacturer	Model	Camera configuration notes [1]
Axis	207	
	211	
	212 PTZ	
	213 PTZ	Configure camera as PAL
	215 PTZ	Configure camera as PAL
	221	
	P1311	
	P1343	
	P1346	
	P1347	
	P3301	
	M1011 / M1011-W	
	M1031-W	
	M1054	
	M1114	
	M3014	
	M3204	
	Q1755	Select a resolution with 16:9 aspect ratio
	Q6034	Select a resolution with 16:9 aspect ratio
Mobotix	D12 DualDome	Recommended resolution: VGA
	D24 MonoDome	Recommended resolution: VGA
	M12 DualNight	Recommended resolution: VGA
	M24 Allround	Recommended resolution: VGA
	Q24 Hemispheric	Recommended resolution: VGA
Grandstream	GXV-3501 [2]	Recommended resolution: CIF
	GXV-3504 [2]	Recommended resolution: CIF
	GXV-3610	Recommended resolution: EPTZ
	GXV-3611	Recommended resolution: EPTZ
	GXV-3615	Recommended resolution: CIF
Vivotek	Series 7000, HTTP / MJPEG	Recommended resolutions: CIF / 352x288 / 352x240 / VGA
	Series 7000, RTSP / MPEG-4	Recommended resolutions: CIF / 352x288 / 352x240 / VGA
	Series 8000, RTSP / H.264	Recommended resolutions: CIF / 352x288 / 352x240 / VGA

(1) Recommended configuration settings to be applied to the camera itself
(2) IP video encoders, can be used to connect analog cameras

GENERIC (CUSTOM) CAMERAS

Starting from firmware version **1.7** of the Iddero touch panels you can also configure generic (custom) cameras. The following camera types are supported:

Manufacturer	Model	Camera type
Other (custom)	RTSP / H.264	RTSP protocol, H.264 encoding
	RTSP / MPEG4	RTSP protocol, MPEG4 encoding
	RTSP / MJPEG	RTSP protocol, MJPEG encoding
	HTTP / MJPEG	HTTP protocol, MJPEG encoding

When configuring a generic camera you will need to specify a **path** parameter that specifies the path to the video stream.

In order to configure this parameter, please check the documentation provided by the manufacturer and find the URL used to access the video stream from a media player such as VLC, or (for HTTP / MJPEG cameras only) from a web browser. The path parameter is the part of the URL that comes after the IP address, and, if applicable, port number.

For example, for a Panasonic camera with HTTP / MJPEG streaming, with IP address 192.168.0.220 and HTTP port 8080, you would use the following URL:

`http://192.168.0.220:8080/SnapShotJPEG?Resolution=320x240&Quality=Motion`

Protocol   IP address + port   Path

In this example the value to enter in the path field would be: `/SnapShotJPEG?Resolution=320x240&Quality=Motion`

Whenever possible, it is recommended to configure cameras with low or medium resolutions, such as QVGA (320x240), CIF, or VGA (640x480) as this generally allows for better frame rates.