Partner: LILIN
Model: All
Device Type: IP Camera

GENERAL INFORMATION:	
SIMPLWINDOWS NAME:	LILIN CAMERA
CATEGORY:	IP CAMERA
VERSION:	1.07
SUMMARY:	This module will control supported LILIN IP cameras, via TCP/IP.
GENERAL NOTES:	Control of the camera is via HTTP. No connection handling set up is required; this is all managed in the module. Note that some camera models in the iMEGAPRO and S-series ranges have Digital PTZ functionality, which is unsupported in this module.
CRESTRON HARDWARE REQUIRED:	Any Ethernet-enabled processor
SETUP OF CRESTRON HARDWARE:	Connect the Crestron processor to the same subnet as the Lilin camera(s).
VENDOR FIRMWARE:	This module has been tested with the following LILIN camera models: • IPS5204S (AP FW v.1.2.6, Pan/Tilt FW v.1.6.12) • IPG1022ESX3 (FW v.1.4.66)
VENDOR SETUP:	It is recommended that the camera be configured with a static IP address that is in the same range as the Crestron processor.
CABLE DIAGRAM:	N/A

CONTROL:		
CAMERA SELECT	D	Pulse this to select the camera once the config details have been set (CAMERA_IP, CAMERA_PORT, CAMERA_USERNAME, CAMERA_PASSWORD)
CAMERA_IP	S	The IP address of the camera (default for most LILIN cameras is "192.168.0.200")
CAMERA_PORT	S	The port number of the camera (default for most LILIN cameras is "80")
CAMERA_USERNAME	S	The username you use to log in to the camera (default for most LILIN cameras is "*admin*")
CAMERA_PASSWORD	S	The password you use to log in to the camera (default for most LILIN cameras is "*pass*")
PRESET_SELECT_[*preset number*]	D	Selects a preset camera position
PTZ_REL_STOP	D	Stop moving the selected camera
PTZ_UP	D	Move the selected camera up

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PTZ_UPRIGHT	D	Move the selected camera up and to the right
PTZ_RIGHT	D	Move the selected camera to the right
PTZ_DOWNRIGHT	D	Move the selected camera down and to the right
PTZ_DOWN	D	Move the selected camera down
PTZ_DOWNLEFT	D	Move the selected camera down and to the left
PTZ_LEFT	D	Move the selected camera to the left
PTZ_UPLEFT	D	Move the selected camera up and to the left
PTZ_ZOOMPLUS	D	Increase the zoom level of the selected camera
PTZ_ZOOMMINUS	D	Decrease the zoom level of the selected camera
PTZ_ROTATE	D	Rotate the selected camera
IRIS_PLUS	D	Open iris on the selected camera
IRIS_MINUS	D	Close iris on the selected camera
IRIS_AUTO	D	Enable automatic iris
FOCUS_PLUS	D	Increase focus
FOCUS_MINUS	D	Decrease focus
FOCUS_AUTO	D	Enable automatic focus
PTZ_DEG_PAN	A	Define the pan level of the selected camera (based on the Crestron scaler)
PTZ_DEG_TILT	A	Define the tilt level of the selected camera (based on the Crestron scaler)
PTZ_DEG_ZOOM	A	Define the zoom level of the selected camera (based on the Crestron scaler)
PRESET_STORE_[*preset number*]	D	Store the position of the current camera as a preset

FEEDBACK:

[ERROR_STATE]	S	Service tool only
[CURRENT_CAMERA]	A	Reports the selected camera
CURRENT_DEG_PAN	A	Provides the current pan position of the selected camera in degrees

CURRENT_DEG_TILT	A	Provides the current tilt position of the selected camera in degrees
CURRENT_DEG_ZOOM	A	Provides the current zoom position of the selected camera in degrees
MJPEG_URL	S	The address of the selected camera's motion JPEG image
DETECTED_ALARM	D	Signals a detected alarm
DETECTED_MOTION	D	Signals detected motion
DETECTED_TEMPER	D	Signals a detected tamper (note the misspelling from the camera's protocol)

PARAMETERS:

N/A		

TESTING:

OPS USED FOR TESTING:	PRO2 4.007.0004 MC3 1.007.0019
SIMPL WINDOWS USED FOR TESTING:	4.02.65
CRESTRON DB USED FOR TESTING:	51.05.007.00
DEVICE DB USED FOR TESTING:	65.05.003.00
SAMPLE PROGRAM:	Merit Lilin Security System v1.7
REVISION HISTORY:	V. 1.00 – Original Release V. 1.02 – Fixes buffer overload error V. 1.03 – "Port" parameter added, various minor bug fixes V. 1.04 – Camera Config details moved from Module properties to signals – allows scalable number of cameras to be supported V. 1.05 – Resolves reconnection problem V. 1.06 – Improved PTZ control V. 1.07 – version incremented with updates to NVR driver

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