

This document provides additional assistance with wiring your Extron IP Link Pro Control Processor to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific IP Link Pro Control Processor or the documentation supplied by the manufacturer of the controlled device.

For more information on using Global Scriptor Modules, refer to the "[Guide to Using Scriptor Modules](#)" document.

Device Specifications

Device Type: Controller
Manufacturer: Vaddio
Firmware Version: N/A
Model(s): Quick-Connect USB

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scriptor Version
3.04.0000-b002	2.3.1

Version History

Module Version	Date	Notes
1_3_0_1	8/8/2019	Fixed DeviceID issue.
1_3_0_0	5/8/2019	For Serial, <ul style="list-style-type: none">Renamed driver parameter from 'Device Id' to 'Device ID'Renamed Zoom parameter 'Speed' to 'Zoom Speed'. For Ethernet, <ul style="list-style-type: none">Renamed Pan, Tilt, and Zoom command parameter 'Speed' to corresponding parameter names 'Pan Speed', 'Tilt Speed', and 'Zoom Speed'.Added Streaming Mode.
1_2_0_0	6/29/2016	Initial Version

Module Notes

- Unidirectional variable must be set to 'True' if status is not required. Default value is 'False'.
Example: `InterfaceName.Unidirectional = 'True'`
- connectionCounter variable must be set to the number of queries that will be sent to the device before displaying 'Disconnected' if no response is received. Default value is 15.
Example: `InterfaceName.connectionCounter = 5`
- If login credentials are required, devicePassword and deviceUsername must be set accordingly. devicePassword and deviceUsername default values are password and admin respectively.
Example: `InterfaceName.devicePassword = 'extron'`
- DeviceID variable must be set accordingly. Default value is '1'. DeviceID ranges from 1 to 7.
Example: `InterfaceName.DeviceID = '1'` (Serial Communication only)

Supported Classes and Examples

SerialClass
<code>InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='Quick-Connect USB')</code>
SerialOverEthernetClass
<code>InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='Quick-Connect USB')</code>
EthernetClass
<code>InterfaceName = ModuleName.EthernetClass('192.168.254.254', 23, Model='Quick-Connect USB')</code>

Control Commands (Serial)

Format with Qualifier:

```
InterfaceName.Set(Command, Value, {'Qualifier Key': 'Qualifier Value'})
```

Format with Qualifier:

```
InterfaceName.Set(Command, Value)
```

Command	Value	Value	
AutoFocus	'On'	'Off'	
# AutoFocus example InterfaceName.Set('AutoFocus', 'On')			
Command	Value	Value	
BacklightMode	'On'	'Off'	
# BacklightMode example InterfaceName.Set('BacklightMode', 'On')			
Command	Value	Value	Value
Focus	'Near'	'Far'	'Stop'
Qualifier Key	Qualifier Value		
Focus Speed	'0' – '7'		
# Focus example InterfaceName.Set('Focus', 'Near', {'Focus Speed': '0'})			
Command	Value	Value	Value
PanTilt	'Up'	'Down'	'Left'
	'Right'	'Up Left'	'Up Right'
	'Down Left'	'Down Right'	'Stop'
Qualifier Key	Qualifier Value		
Pan Speed	'1' – '24'		
Qualifier Key	Qualifier Value		
Tilt Speed	'1' – '20'		
# PanTilt example InterfaceName.Set('PanTilt', 'Up', {'Pan Speed': '1', 'Tilt Speed': '1'})			
Command	Value	Value	
Power	'On'	'Off'	
# Power example InterfaceName.Set('Power', 'On')			
Command	Value		
PresetRecall	'1' – '6'		
# PresetRecall example InterfaceName.Set('PresetRecall', '1')			
Command	Value		
PresetSave	'1' – '6'		
# PresetSave example InterfaceName.Set('PresetSave', '1')			
Command	Value	Value	Value
Zoom	'In'	'Out'	'Stop'
Qualifier Key	Qualifier Value		
Zoom Speed	'1' – '7'		
# Zoom example InterfaceName.Set('Zoom', 'In', {'Zoom Speed': '1'})			

Status Available (Serial)

For all commands, call Update to receive the latest status. ConnectionStatus does not support the Update function and is triggered by the device providing a successful response to other Update function calls.

Format with Qualifier:

```
InterfaceName.Update(Command, {'Qualifier Key': 'Qualifier Value'})  
Value = InterfaceName.ReadStatus(Command, {'Qualifier Key': 'Qualifier Value'})  
InterfaceName.SubscribeStatus(Command, {'Qualifier Key': 'Qualifier Value'},  
FeedbackHandler)
```

FeedbackHandler will be called only when the specified qualifier gets a new status.

Format without Qualifier:

```
InterfaceName.Update(Command)  
Value = InterfaceName.ReadStatus(Command)  
InterfaceName.SubscribeStatus(Command, None, FeedbackHandler)  
FeedbackHandler will be called when any qualifier gets a new status.
```

Command	Value	Value
BacklightMode	'On'	'Off'
# BacklightMode example InterfaceName.Update('BacklightMode') Value = InterfaceName.ReadStatus('BacklightMode') InterfaceName.SubscribeStatus('BacklightMode', None, FeedbackHandler)		
Command	Value	Value
ConnectionStatus	'Connected'	'Disconnected'
Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)		
Command	Value	Value
Power	'On'	'Off'
# Power example InterfaceName.Update('Power') Value = InterfaceName.ReadStatus('Power') InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)		

Control Commands (Ethernet)

Format with Qualifier:

```
InterfaceName.Set(Command, Value, {'Qualifier Key': 'Qualifier Value'})
```

Format with Qualifier:

```
InterfaceName.Set(Command, Value)
```

Command	Value	Value	Value
Pan	'Left'	'Right'	'Stop'
Qualifier Key	Qualifier Value		
'Pan Speed'	'1' – '24'		
# Pan example InterfaceName.Set('Pan', 'Left', {'Pan Speed': '1'})			
Command	Value		
PresetRecall	'1' – '6'		
# PresetRecall example InterfaceName.Set('PresetRecall', '1')			
Command	Value		
PresetSave	'1' – '6'		
# PresetSave example InterfaceName.Set('PresetSave', '1')			
Command	Value		
ResetPosition	'None'		
# ResetPosition example InterfaceName.Set('ResetPosition', None)			
Command	Value	Value	
StreamingMode	'USB'	'Ethernet'	
# StreamingMode example InterfaceName.Set('StreamingMode', 'USB')			
Command	Value	Value	Value
Tilt	'Up'	'Down'	'Stop'
Qualifier Key	Qualifier Value		
'Tilt Speed'	'1' – '20'		
# Tilt example InterfaceName.Set('Tilt', 'Up', {'Tilt Speed': '1'})			
Command	Value	Value	Value
Zoom	'In'	'Out'	'Stop'
Qualifier Key	Qualifier Value		
'Zoom Speed'	'1' – '7'		
# Zoom example InterfaceName.Set('Zoom', 'In', {'Zoom Speed': '1'})			

Status Available (Ethernet)

For all commands, call Update to receive the latest status. ConnectionStatus does not support the Update function and is triggered by the device providing a successful response to other Update function calls.

Format with Qualifier:

```
InterfaceName.Update(Command, {'Qualifier Key': 'Qualifier Value'})
Value = InterfaceName.ReadStatus(Command, {'Qualifier Key': 'Qualifier Value'})
InterfaceName.SubscribeStatus(Command, {'Qualifier Key': 'Qualifier Value'},
```

FeedbackHandler)

FeedbackHandler will be called only when the specified qualifier gets a new status.

Format without Qualifier:

```
InterfaceName.Update(Command)
Value = InterfaceName.ReadStatus(Command)
InterfaceName.SubscribeStatus(Command, None, FeedbackHandler)
FeedbackHandler will be called when any qualifier gets a new status.
```

Command	Value	Value
ConnectionStatus	'Connected'	'Disconnected'
<pre>Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)</pre>		
Command	Value	Value
StreamingMode	'USB'	'Ethernet'
<pre># StreamingMode example InterfaceName.Update('StreamingMode') Value = InterfaceName.ReadStatus('StreamingMode') InterfaceName.SubscribeStatus('StreamingMode', None, FeedbackHandler)</pre>		

Cable and Adapter Requirements

Captive Screw to EZCamera™ Control Adapter that is provided with the camera.

Notes for the Device

DIP Switch 4 on the device must be set to a baud rate of 9600.

Serial communication

Port Type: RS-232

Baud Rate: 9600

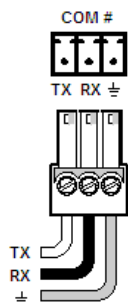
Data Bits: 8

Parity: None

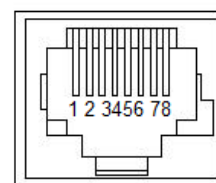
Stop Bits: One

Flow Control: None

Pin Assignments Diagram



Signal	Main Cable	Pin	Signal
TxD		8	TxD
RxD		7	RxD
GND		6	GND



RJ-45 Camera

Network communication

When configuring the Ethernet module, be sure device settings match those of the Global Scriptor ethernet interface.

Port Type:	Ethernet
Default Port:	23
Logon Credentials Supported:	Yes
Default Username:	admin
Default Password:	password
Multi-Connection	Undetermined
Capabilities:	
Port Changeability:	Yes

Ethernet Module Configuration Description

Please refer to user manual for settings and changes to the network communication

Notes for the Device

Appendix A. Set Commands (Serial)

Auto Focus Off	\x01\x01\x048\x03\xff
Auto Focus On	\x01\x01\x048\x02\xff
Backlight Mode Off	\x01\x01\x043\x03\xff
Backlight Mode On	\x01\x01\x043\x02\xff
Focus Far Focus Speed 0	\x01\x01\x04\x08 \xff
Focus Far Focus Speed 7	\x01\x01\x04\x08' \xff
Focus Near Focus Speed 0	\x01\x01\x04\x080\xff
Focus Near Focus Speed 7	\x01\x01\x04\x087\xff
Focus Stop Focus Speed 0	\x01\x01\x04\x08\x00\xff
Focus Stop Focus Speed 7	\x01\x01\x04\x08\x00\xff
Pan Tilt Down Left Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x01\x02\xff
Pan Tilt Down Left Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x01\x02\xff
Pan Tilt Down Left Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x01\x02\xff
Pan Tilt Down Left Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x01\x02\xff
Pan Tilt Down Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x03\x02\xff
Pan Tilt Down Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x03\x02\xff
Pan Tilt Down Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x03\x02\xff
Pan Tilt Down Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x03\x02\xff
Pan Tilt Down Right Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x02\x02\xff
Pan Tilt Down Right Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x02\x02\xff
Pan Tilt Down Right Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x02\x02\xff
Pan Tilt Down Right Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x02\x02\xff
Pan Tilt Left Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x01\x03\xff
Pan Tilt Left Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x01\x03\xff
Pan Tilt Left Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x01\x03\xff
Pan Tilt Left Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x01\x03\xff
Pan Tilt Right Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x02\x03\xff
Pan Tilt Right Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x02\x03\xff
Pan Tilt Right Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x02\x03\xff
Pan Tilt Right Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x02\x03\xff
Pan Tilt Stop Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x03\x03\xff
Pan Tilt Stop Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x03\x03\xff
Pan Tilt Stop Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x03\x03\xff
Pan Tilt Stop Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x03\x03\xff
Pan Tilt Up Left Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x01\xff
Pan Tilt Up Left Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x01\x01\xff
Pan Tilt Up Left Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x01\x01\xff
Pan Tilt Up Left Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x01\x01\xff
Pan Tilt Up Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x01\x03\x01\xff
Pan Tilt Up Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x03\x01\xff
Pan Tilt Up Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x03\x01\xff
Pan Tilt Up Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x03\x01\xff

Global Scriptor Module Communication Sheet

Revision: 8/8/2019

Pan Tilt Up Right Pan Speed 1 Tilt Speed 1	\x01\x01\x06\x01\x01\x02\x01\xff
Pan Tilt Up Right Pan Speed 1 Tilt Speed 20	\x01\x01\x06\x01\x01\x14\x02\x01\xff
Pan Tilt Up Right Pan Speed 24 Tilt Speed 1	\x01\x01\x06\x01\x18\x01\x02\x01\xff
Pan Tilt Up Right Pan Speed 24 Tilt Speed 20	\x01\x01\x06\x01\x18\x14\x02\x01\xff
Power Off	\x01\x01\x04\x00\x03\xff
Power On	\x01\x01\x04\x00\x02\xff
Preset Recall 1	\x01\x01\x04?\x02\x00\xff
Preset Recall 6	\x01\x01\x04?\x02\x05\xff
Preset Save 1	\x01\x01\x04?\x01\x00\xff
Preset Save 6	\x01\x01\x04?\x01\x05\xff
Zoom In Zoom Speed 1	\x01\x01\x04\x07!\xff
Zoom In Zoom Speed 7	\x01\x01\x04\x07'\xff
Zoom Out Zoom Speed 1	\x01\x01\x04\x071\xff
Zoom Out Zoom Speed 7	\x01\x01\x04\x077\xff
Zoom Stop Zoom Speed 1	\x01\x01\x04\x07\x00\xff
Zoom Stop Zoom Speed 7	\x01\x01\x04\x07\x00\xff

Appendix B. Update Commands (Serial)

Backlight Mode	\x01\x09\x043\xff
Power	\x01\x09\x04\x00\xff

Appendix C. Set Commands (Ethernet)

Pan Left Pan Speed 1	camera pan left 1\x0D
Pan Left Pan Speed 24	camera pan left 24\x0D
Pan Right Pan Speed 1	camera pan right 1\x0D
Pan Right Pan Speed 24	camera pan right 24\x0D
Pan Stop Pan Speed 1	camera pan stop\x0D
Pan Stop Pan Speed 24	camera pan stop\x0D
Preset Recall 1	camera preset recall 1\x0D
Preset Recall 6	camera preset recall 6\x0D
Preset Save 1	camera preset store 1\x0D
Preset Save 6	camera preset store 6\x0D
Reset Position None	camera home\x0D
Streaming Mode Ethernet	streaming mode ethernet\x0D
Streaming Mode USB	streaming mode usb\x0D
Tilt Down Tilt Speed 1	camera tilt down 1\x0D
Tilt Down Tilt Speed 20	camera tilt down 20\x0D
Tilt Stop Tilt Speed 1	camera tilt stop\x0D
Tilt Stop Tilt Speed 20	camera tilt stop\x0D
Tilt Up Tilt Speed 1	camera tilt up 1\x0D
Tilt Up Tilt Speed 20	camera tilt up 20\x0D
Zoom In Zoom Speed 1	camera zoom in 1\x0D
Zoom In Zoom Speed 7	camera zoom in 7\x0D
Zoom Out Zoom Speed 1	camera zoom out 1\x0D
Zoom Out Zoom Speed 7	camera zoom out 7\x0D
Zoom Stop Zoom Speed 1	camera zoom stop\x0D
Zoom Stop Zoom Speed 7	camera zoom stop\x0D

Appendix D. Update Commands (Ethernet)

Streaming Mode	streaming mode get\x0D
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