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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.

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## Device Specifications

Device Type: Camera  
Manufacturer: PTZ Optics  
Firmware Version: N/A  
Model(s): PT30X-NDI-GY, PT30X-NDI-WH

## Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scriptor Version
3.04.0001-b002	2.3.1

## Version History

Module Version	Date	Notes
1_0_0_0	10/14/2019	Initial Version

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## 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`
- DeviceID variable must be set accordingly. Default value is '1'. DeviceID ranges from 1 to 7, and Broadcast. If Device ID is set to 'Broadcast', status is unavailable.  
Example: `InterfaceName.DeviceID = '1'`

## Supported Classes and Examples

<b>SerialClass</b>
<code>InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='PT30X-NDI-GY')</code>
<b>SerialOverEthernetClass</b>
<code>InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='PT30X-NDI-GY')</code>
<b>EthernetClass</b>
<code>InterfaceName = ModuleName.EthernetClass('192.168.254.254', 5678, Model='PT30X-NDI-GY')</code>

## Control Commands

Format with Qualifier:

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

Format with Qualifier:

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

Command AutoExposure	Value 'Full Auto' 'Iris Priority'	Value 'Manual' 'Bright'	Value 'Shutter Priority'
# AutoExposure example InterfaceName.Set('AutoExposure', 'Full Auto')			
Command AutoFocus	Value 'On'	Value 'Off'	
# AutoFocus example InterfaceName.Set('AutoFocus', 'On')			
Command Backlight	Value 'On'	Value 'Off'	
# Backlight example InterfaceName.Set('Backlight', 'On')			
Command Focus	Value 'Far'	Value 'Near'	Value 'Stop'
Qualifier Key 'Focus Speed'	Qualifier Value '0' – '7'		
# Focus example InterfaceName.Set('Focus', 'Far', {'Focus Speed': '0'})			
Command Home	Value None		
# Home example InterfaceName.Set('Home', None)			
Command Iris	Value 'Up'	Value 'Down'	Value 'Reset'
# Iris example InterfaceName.Set('Iris', 'Up')			
Command PanTilt	Value 'Up' 'Right' 'Down Left'	Value 'Down' 'Up Left' 'Down Right'	Value 'Left' 'Up Right' 'Stop'
Qualifier Key 'Pan Speed'	Qualifier Value '0' – '24'		
Qualifier Key 'Tilt Speed'	Qualifier Value '0' – '20'		
# PanTilt example InterfaceName.Set('PanTilt', 'Up', {'Pan Speed': '0', 'Tilt Speed': '0'})			
Command PanTiltReset	Value None		
# PanTiltReset example InterfaceName.Set('PanTiltReset', None)			
Command Power	Value 'On'	Value 'Off'	
# Power example InterfaceName.Set('Power', 'On')			

## Global Scripter Module Communication Sheet

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Command PresetRecall	Value '0' – '127'		
# PresetRecall example InterfaceName.Set('PresetRecall', '0')			
Command PresetReset	Value '0' – '127'		
# PresetReset example InterfaceName.Set('PresetReset', '0')			
Command PresetSave	Value '0' – '127'		
# PresetSave example InterfaceName.Set('PresetSave', '0')			
Command Zoom	Value 'Tele'	Value 'Wide'	Value 'Stop'
Qualifier Key 'Zoom Speed'	Qualifier Value '0' – '7'		
# Zoom example InterfaceName.Set('Zoom', 'Tele', {'Zoom Speed': '0'})			

## Status Available

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	Value
<b>AutoExposure</b>	'Full Auto' 'Iris Priority'	'Manual' 'Bright'	'Shutter Priority'
# AutoExposure example InterfaceName.Update('AutoExposure') Value = InterfaceName.ReadStatus('AutoExposure') InterfaceName.SubscribeStatus('AutoExposure', None, FeedbackHandler)			
Command	Value	Value	
<b>AutoFocus</b>	'On'	'Off'	
# AutoFocus example InterfaceName.Update('AutoFocus') Value = InterfaceName.ReadStatus('AutoFocus') InterfaceName.SubscribeStatus('AutoFocus', None, FeedbackHandler)			
Command	Value	Value	
<b>Backlight</b>	'On'	'Off'	
# Backlight example InterfaceName.Update('Backlight') Value = InterfaceName.ReadStatus('Backlight') InterfaceName.SubscribeStatus('Backlight', None, FeedbackHandler)			
Command	Value	Value	
<b>ConnectionStatus</b>	'Connected'	'Disconnected'	
# ConnectionStatus example Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)			
Command	Value	Value	Value
<b>Power</b>	'On'	'Off'	'Internal Power Circuit Error'
# Power example InterfaceName.Update('Power') Value = InterfaceName.ReadStatus('Power') InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)			

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## Cable and Adapter Requirements

Captive Screw to DIN-8 VISCA Serial Cable

## Notes for the Device

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## Serial communication

**Port Type:** RS-232, RS-485

**Baud Rate:** 9600

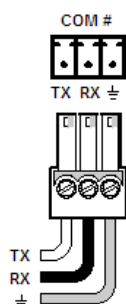
**Data Bits:** 8

**Parity:** None

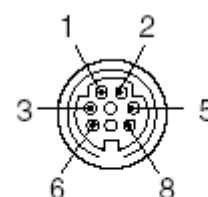
**Stop Bits:** One

**Flow Control:** None

## Pin Assignments Diagram



Signal	Main Cable	Pin	Signal
TxD	→	5	RxD
RxD	←	3	TxD
GND	→	4	GND



**Mini 8 Pin DIN, Female  
Camera**

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## Network communication

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

<b>Port Type:</b>	Ethernet
<b>Default Port:</b>	5678
<b>Logon Credentials Supported:</b>	No
<b>Multi-Connection Capabilities:</b>	Undetermined
<b>Port Changeability:</b>	Yes

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## Ethernet Module Configuration Description

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

## Notes for the Device

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**Appendix A. Set Commands**

Auto Exposure Bright	\x81\x01\x049\x0D\xff
Auto Exposure Full Auto	\x81\x01\x049\x00\xff
Auto Exposure Iris Priority	\x81\x01\x049\x0B\xff
Auto Exposure Manual	\x81\x01\x049\x03\xff
Auto Exposure Shutter Priority	\x81\x01\x049\x0A\xff
Auto Focus Off	\x81\x01\x048\x03\xff
Auto Focus On	\x81\x01\x048\x02\xff
Backlight Off	\x81\x01\x043\x03\xff
Backlight On	\x81\x01\x043\x02\xff
Focus Far Focus Speed 0	\x81\x01\x04\x08\xff
Focus Far Focus Speed 7	\x81\x01\x04\x08'\xff
Focus Near Focus Speed 0	\x81\x01\x04\x080\xff
Focus Near Focus Speed 7	\x81\x01\x04\x087\xff
Focus Stop Focus Speed 0	\x81\x01\x04\x08\x00\xff
Focus Stop Focus Speed 7	\x81\x01\x04\x08\x00\xff
Home None	\x81\x01\x06\x04\xff
Iris Down	\x81\x01\x04\x0B\x03\xff
Iris Reset	\x81\x01\x04\x0B\x00\xff
Iris Up	\x81\x01\x04\x0B\x02\xff
Pan Tilt Down Left Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x01\x02\xff
Pan Tilt Down Left Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x01\x02\xff
Pan Tilt Down Left Pan Speed 24 Tilt Speed 0	\x81\x01\x06\x01\x18\x00\x01\x02\xff
Pan Tilt Down Left Pan Speed 24 Tilt Speed 20	\x81\x01\x06\x01\x18\x14\x01\x02\xff
Pan Tilt Down Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x03\x02\xff
Pan Tilt Down Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x03\x02\xff
Pan Tilt Down Pan Speed 24 Tilt Speed 0	\x81\x01\x06\x01\x18\x00\x03\x02\xff
Pan Tilt Down Pan Speed 24 Tilt Speed 20	\x81\x01\x06\x01\x18\x14\x03\x02\xff
Pan Tilt Down Right Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x02\x02\xff
Pan Tilt Down Right Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x02\x02\xff
Pan Tilt Down Right Pan Speed 24 Tilt Speed 0	\x81\x01\x06\x01\x18\x00\x02\x02\xff
Pan Tilt Down Right Pan Speed 24 Tilt Speed 20	\x81\x01\x06\x01\x18\x14\x02\x02\xff
Pan Tilt Left Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x01\x03\xff
Pan Tilt Left Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x01\x03\xff
Pan Tilt Left Pan Speed 24 Tilt Speed 0	\x81\x01\x06\x01\x18\x00\x01\x03\xff
Pan Tilt Left Pan Speed 24 Tilt Speed 20	\x81\x01\x06\x01\x18\x14\x01\x03\xff
Pan Tilt Reset None	\x81\x01\x06\x05\xff
Pan Tilt Right Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x02\x03\xff
Pan Tilt Right Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x02\x03\xff
Pan Tilt Right Pan Speed 24 Tilt Speed 0	\x81\x01\x06\x01\x18\x00\x02\x03\xff
Pan Tilt Right Pan Speed 24 Tilt Speed 20	\x81\x01\x06\x01\x18\x14\x02\x03\xff
Pan Tilt Stop Pan Speed 0 Tilt Speed 0	\x81\x01\x06\x01\x00\x00\x03\x03\xff
Pan Tilt Stop Pan Speed 0 Tilt Speed 20	\x81\x01\x06\x01\x00\x14\x03\x03\xff



## Global Scripter Module Communication Sheet

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<b>Pan Tilt Stop Pan Speed 24 Tilt Speed 0</b>	\x81\x01\x06\x01\x18\x00\x03\x03\xff
<b>Pan Tilt Stop Pan Speed 24 Tilt Speed 20</b>	\x81\x01\x06\x01\x18\x14\x03\x03\xff
<b>Pan Tilt Up Left Pan Speed 0 Tilt Speed 0</b>	\x81\x01\x06\x01\x00\x00\x01\x01\xff
<b>Pan Tilt Up Left Pan Speed 0 Tilt Speed 20</b>	\x81\x01\x06\x01\x00\x14\x01\x01\xff
<b>Pan Tilt Up Left Pan Speed 24 Tilt Speed 0</b>	\x81\x01\x06\x01\x18\x00\x01\x01\xff
<b>Pan Tilt Up Left Pan Speed 24 Tilt Speed 20</b>	\x81\x01\x06\x01\x18\x14\x01\x01\xff
<b>Pan Tilt Up Pan Speed 0 Tilt Speed 0</b>	\x81\x01\x06\x01\x00\x00\x03\x01\xff
<b>Pan Tilt Up Pan Speed 0 Tilt Speed 20</b>	\x81\x01\x06\x01\x00\x14\x03\x01\xff
<b>Pan Tilt Up Pan Speed 24 Tilt Speed 0</b>	\x81\x01\x06\x01\x18\x00\x03\x01\xff
<b>Pan Tilt Up Pan Speed 24 Tilt Speed 20</b>	\x81\x01\x06\x01\x18\x14\x03\x01\xff
<b>Pan Tilt Up Right Pan Speed 0 Tilt Speed 0</b>	\x81\x01\x06\x01\x00\x00\x02\x01\xff
<b>Pan Tilt Up Right Pan Speed 0 Tilt Speed 20</b>	\x81\x01\x06\x01\x00\x14\x02\x01\xff
<b>Pan Tilt Up Right Pan Speed 24 Tilt Speed 0</b>	\x81\x01\x06\x01\x18\x00\x02\x01\xff
<b>Pan Tilt Up Right Pan Speed 24 Tilt Speed 20</b>	\x81\x01\x06\x01\x18\x14\x02\x01\xff
<b>Power Off</b>	\x81\x01\x04\x00\x03\xff
<b>Power On</b>	\x81\x01\x04\x00\x02\xff
<b>Preset Recall 0</b>	\x81\x01\x04?\x02\x00\xff
<b>Preset Recall 127</b>	\x81\x01\x04?\x02\x7F\xff
<b>Preset Reset 0</b>	\x81\x01\x04?\x00\x00\xff
<b>Preset Reset 127</b>	\x81\x01\x04?\x00\x7F\xff
<b>Preset Save 0</b>	\x81\x01\x04?\x01\x00\xff
<b>Preset Save 127</b>	\x81\x01\x04?\x01\x7F\xff
<b>Zoom Stop Zoom Speed 0</b>	\x81\x01\x04\x07\x00\xff
<b>Zoom Stop Zoom Speed 7</b>	\x81\x01\x04\x07\x00\xff
<b>Zoom Tele Zoom Speed 0</b>	\x81\x01\x04\x07 \xff
<b>Zoom Tele Zoom Speed 7</b>	\x81\x01\x04\x07' \xff
<b>Zoom Wide Zoom Speed 0</b>	\x81\x01\x04\x070\xff
<b>Zoom Wide Zoom Speed 7</b>	\x81\x01\x04\x077\xff

## Appendix B. Update Commands

<b>Auto Exposure</b>	\x81\x09\x049\xff
<b>Auto Focus</b>	\x81\x09\x048\xff
<b>Backlight</b>	\x81\x09\x043\xff
<b>Power</b>	\x81\x09\x04\x00\xff