

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:	Camera
Manufacturer:	Panasonic
Firmware Version:	N/A
Model(s):	AW-HE100, AW-HE120, AW-HE38H, AW-HE38HK, AW-HE38HW, AW-HE40HKE, AW-HE40HKP, AW-HE40HWE, AW-HE40HWP, AW-HE40SKE, AW-HE40SKP, AW-HE40SWE, AW-HE40SWP, AW-HE50, AW-HE50H, AW-HE50S, AW-HE60, AW-HE60SE, AW-HE65HKMC, AW-HE65HWMC, AW-HE65SKMC, AW-HE65SWMC, AW-HE70HK, AW-HE70HW, AW-HE70SK, AW-HE70SW, AW-UE70, AW-UE70KE, AW-UE70KP, AW-UE70WE, AW-UE70WP, AW-HE40HWPJ9, AW-HE40SWPJ9, AW-HE40HWEJ9, AW-HE40SWEJ9, AW-HE40HKPJ9, AW-HE40SKPJ9, AW-HE40HKEJ9, AW-HE40SKEJ9, AW-UE150WP, AW-UE150KP, AW-UE150WE, AW-UE150KE

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_6_1_1	1/30/2020	Fixed authentication.
1_6_1_0	4/22/2019	Added Scene File Control command for Ethernet control, for all models starting with: AW-HE38, AW-HE40, AW-HE50, AW-HE60, AW-HE-65, AW-HE70 or AW-UE70.
1_5_1_0	2/13/2019	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`

Supported Classes and Examples

SerialClass
<code>InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='AW-HE100')</code>
SerialOverEthernetClass
<code>InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='AW-HE100')</code>
HTTPClass
<code>InterfaceName = ModuleName.HTTPClass('192.168.254.254', 80, 'admin', 'password', Model='AW-HE100')</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	
ExtenderAFControl	'On'	'Off'	
# ExtenderAFControl example InterfaceName.Set('ExtenderAFControl', 'On')			
Command	Value	Value	Value
Focus	'Far'	'Near'	'Stop'
Qualifier Key	Qualifier Value		
'Focus Speed'	1 to 49 in steps of 1		
# Focus example InterfaceName.Set('Focus', 'Far', {'Focus Speed': 49})			
Command	Value		
Iris	1 to 99 in steps of 1		
# Iris example InterfaceName.Set('Iris', 99)			
Command	Value	Value	
IrisMode	'Manual'	'Auto'	
# IrisMode example InterfaceName.Set('IrisMode', 'Manual')			
Command	Value	Value	Value
Pan	'Left'	'Right'	'Stop'
Qualifier Key	Qualifier Value		
'Pan Speed'	1 to 49 in steps of 1		
# Pan example InterfaceName.Set('Pan', 'Left', {'Pan Speed': 49})			
Command	Value	Value	
Power	'On'	'Off'	
# Power example InterfaceName.Set('Power', 'On')			
Command	Value		
Preset	'1' – '100'		
Qualifier Key	Qualifier Value	Qualifier Value	
'Type'	'Save'	'Recall'	
# Preset example InterfaceName.Set('Preset', '1', {'Type': 'Save'})			
Command	Value	Value	
Tally	'On'	'Off'	
# Tally example InterfaceName.Set('Tally', 'On')			
Command	Value	Value	
TallyEnable	'On'	'Off'	
# TallyEnable example InterfaceName.Set('TallyEnable', 'On')			

Global Scripter Module Communication Sheet

Command Tilt	Value 'Up'	Value 'Down'	Value 'Stop'
Qualifier Key 'Tilt Speed'	Qualifier Value 1 to 49 in steps of 1		
# Tilt example InterfaceName.Set('Tilt', 'Up', {'Tilt Speed': 49})			
Command Zoom	Value 'Tele'	Value 'Wide'	Value 'Stop'
Qualifier Key 'Zoom Speed'	Qualifier Value 1 to 49 in steps of 1		
# Zoom example InterfaceName.Set('Zoom', 'Tele', {'Zoom Speed': 49})			

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	
ConnectionStatus	'Connected'	'Disconnected'	
Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)			
Command	Value	Value	
ExtenderAFControl	'On'	'Off'	
# ExtenderAFControl example InterfaceName.Update('ExtenderAFControl') Value = InterfaceName.ReadStatus('ExtenderAFControl') InterfaceName.SubscribeStatus('ExtenderAFControl', None, FeedbackHandler)			
Command	Value		
Iris	1 to 99 in steps of 1		
# Iris example InterfaceName.Update('Iris') Value = InterfaceName.ReadStatus('Iris') InterfaceName.SubscribeStatus('Iris', None, FeedbackHandler)			
Command	Value	Value	
IrisMode	'Manual'	'Auto'	
# IrisMode example InterfaceName.Update('IrisMode') Value = InterfaceName.ReadStatus('IrisMode') InterfaceName.SubscribeStatus('IrisMode', None, FeedbackHandler)			
Command	Value	Value	Value
Power	'On'	'Off'	'Starting'
# Power example InterfaceName.Update('Power') Value = InterfaceName.ReadStatus('Power') InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)			
Command	Value	Value	
Tally	'On'	'Off'	
# Tally example InterfaceName.Update('Tally') Value = InterfaceName.ReadStatus('Tally') InterfaceName.SubscribeStatus('Tally', None, FeedbackHandler)			
Command	Value	Value	
TallyEnable	'On'	'Off'	
# TallyEnable example InterfaceName.Update('TallyEnable') Value = InterfaceName.ReadStatus('TallyEnable') InterfaceName.SubscribeStatus('TallyEnable', 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	
AutoFocus	'Auto'	'Manual'	
# AutoFocus example InterfaceName.Set('AutoFocus', 'Auto')			
Command	Value	Value	
AutoIris	'On'	'Off'	
# AutoIris example InterfaceName.Set('AutoIris', 'On')			
Command	Value	Value	
ColorBar	'On'	'Off'	
# ColorBar example InterfaceName.Set('ColorBar', 'On')			
Command	Value	Value	Value
Detail	'On' 'High'	'Off'	'Low'
# Detail example InterfaceName.Set('Detail', 'On')			
Command	Value	Value	Value
Focus	'Far'	'Near'	'Stop'
Qualifier Key	Qualifier Value		
'Speed'	1 to 49 in steps of 1		
# Focus example InterfaceName.Set('Focus', 'Far', {'Speed': 49})			
Command	Value	Value	
Installation	'Desktop'	'Hanging'	
# Installation example InterfaceName.Set('Installation', 'Desktop')			
Command	Value		
IrisPosition	0 to 20 in steps of 1		
# IrisPosition example InterfaceName.Set('IrisPosition', 20)			
Command	Value	Value	Value
PanTilt	'Left' 'Down'	'Right' 'Stop'	'Up'
Qualifier Key	Qualifier Value		
'Speed'	1 to 49 in steps of 1		
# PanTilt example InterfaceName.Set('PanTilt', 'Left', {'Speed': 49})			
Command	Value	Value	
Power	'On'	'Standby'	
# Power example InterfaceName.Set('Power', 'On')			
Command	Value		
Preset	'1' – '100'		
Qualifier Key	Qualifier Value	Qualifier Value	

Global Scripter Module Communication Sheet

'Type'	'Save'	'Recall'	
# Preset example InterfaceName.Set('Preset', '1', {'Type': 'Save'})			
Command ResetPanTiltPosition	Value 'None'		
# ResetPanTiltPosition example InterfaceName.Set('ResetPanTiltPosition', None)			
Command ResetZoom	Value 'None'		
# ResetZoom example InterfaceName.Set('ResetZoom', None)			
Command SceneFileControl	Value 'Manual 1' 'Full Auto'	Value 'Manual 2'	Value 'Manual 3'
# SceneFileControl example InterfaceName.Set('SceneFileControl', 'Manual 1')			
Command Tally	Value 'On'	Value 'Off'	
# Tally example InterfaceName.Set('Tally', 'On')			
Command TallyInput	Value 'Enable'	Value 'Disable'	
# TallyInput example InterfaceName.Set('TallyInput', 'Enable')			
Command Zoom	Value 'Wide'	Value 'Tele'	Value 'Stop'
Qualifier Key 'Speed'	Qualifier Value 1 to 49 in steps of 1		
# Zoom example InterfaceName.Set('Zoom', 'Wide', {'Speed': 49})			

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	
AutoFocus	'Auto'	'Manual'	
# AutoFocus example InterfaceName.Update('AutoFocus') Value = InterfaceName.ReadStatus('AutoFocus') InterfaceName.SubscribeStatus('AutoFocus', None, FeedbackHandler)			
Command	Value	Value	
AutoIris	'On'	'Off'	
# AutoIris example InterfaceName.Update('AutoIris') Value = InterfaceName.ReadStatus('AutoIris') InterfaceName.SubscribeStatus('AutoIris', None, FeedbackHandler)			
Command	Value	Value	
ColorBar	'On'	'Off'	
# ColorBar example InterfaceName.Update('ColorBar') Value = InterfaceName.ReadStatus('ColorBar') InterfaceName.SubscribeStatus('ColorBar', None, FeedbackHandler)			
Command	Value	Value	
ConnectionStatus	'Connected'	'Disconnected'	
Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)			
Command	Value	Value	Value
Detail	'On'	'Off'	'Low'
'High'			
# Detail example InterfaceName.Update('Detail') Value = InterfaceName.ReadStatus('Detail') InterfaceName.SubscribeStatus('Detail', None, FeedbackHandler)			
Command	Value	Value	Value
Power	'On'	'Standby'	'Starting'
# Power example InterfaceName.Update('Power') Value = InterfaceName.ReadStatus('Power') InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)			
Command	Value		
PresetRecallStatus	1 – 100		
# PresetRecallStatus example InterfaceName.Update('PresetRecallStatus')			

Global Scriptor Module Communication Sheet

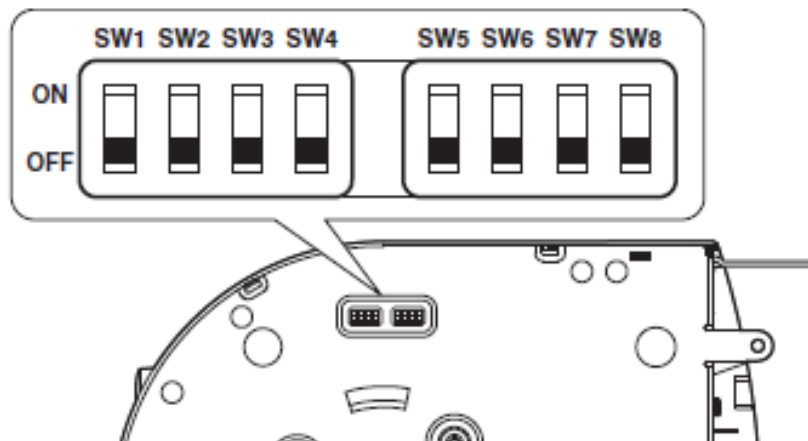
<pre>Value = InterfaceName.ReadStatus('PresetRecallStatus') InterfaceName.SubscribeStatus('PresetRecallStatus', None, FeedbackHandler)</pre>			
Command SceneFileControl	Value 'Manual 1' 'Full Auto'	Value 'Manual 2'	Value 'Manual 3'
<pre># SceneFileControl example InterfaceName.Update('SceneFileControl') Value = InterfaceName.ReadStatus('SceneFileControl') InterfaceName.SubscribeStatus('SceneFileControl', None, FeedbackHandler)</pre>			
Command Tally	Value 'On'	Value 'Off'	
<pre># Tally example InterfaceName.Update('Tally') Value = InterfaceName.ReadStatus('Tally') InterfaceName.SubscribeStatus('Tally', None, FeedbackHandler)</pre>			
Command TallyInput	Value 'Enable'	Value 'Disable'	
<pre># TallyInput example InterfaceName.Update('TallyInput') Value = InterfaceName.ReadStatus('TallyInput') InterfaceName.SubscribeStatus('TallyInput', None, FeedbackHandler)</pre>			

Cable and Adapter Requirements

Captive Screw to RJ-45 jack cable. (Panasonic AWCA20T6G)
Captive Screw to Male Mini 8-Pin Din RS232 cable.

Notes for the Device

If applicable for the configured model, please set the dip switches according to the diagram below to choose between RS232 and RS422 control.



Function		OFF	ON	Factory settings
SW1	Camera address setting (standard serial communication)	See descriptions for SW1 to SW3		OFF
SW2				OFF
SW3				OFF
SW4	Communication format	Panasonic proprietary serial communication	Standard serial communication	OFF
SW5	Always leave at OFF (used for factory adjustments)			OFF
SW6	Infrared output	Disable	Enable	OFF
SW7	Communication baud rate	9600 bps	38400 bps	OFF
SW8	Communication connector	RS-422	RS-232C	OFF

<NOTE>

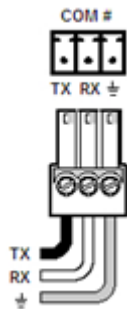
- Perform switch settings before turning the unit on.

Serial communication

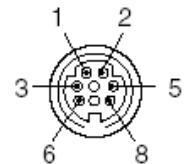
Port Type: RS-232
Baud Rate: 9600
Data Bits: 8

Parity: None
Stop Bits: One
Flow Control: None

Pin Assignments Diagram



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



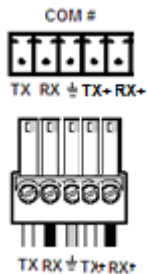
Mini 8 Pin DIN, Female
Camera

Serial communication

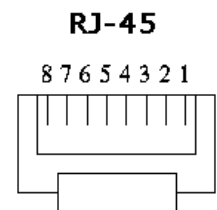
Port Type: RS-422
Baud Rate: 9600
Data Bits: 8

Parity: None
Stop Bits: One
Flow Control: None

Pin Assignments Diagram



Signal	Main Cable	Pin	Signal
RXD-	←	4	TXD-
TXD-	→	3	RXD-
GND	→	1	GND
RXD+	←	5	TXD+
TXD+	→	6	RXD+



Network communication

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

Port Type: Ethernet

Default Port: 80

Logon Credentials Supported: Yes

Multi-Connection Capabilities: No

Port Changeability: Yes

Ethernet Module Configuration Description

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

Notes for the Device

If using authentication, ensure that Authentication setting is set to Basic on the device.

For the AW-HE40 models, Host and User Authentication settings cannot be set to **On** simultaneously.

Appendix A. Set Commands (Serial)

Auto Focus Off	\x020AF:0\x03
Auto Focus On	\x020AF:1\x03
Extender AF Control Off	#D10\x0D
Extender AF Control On	#D11\x0D
Focus Far Focus Speed 1	#F51\x0D
Focus Far Focus Speed 49	#F99\x0D
Focus Near Focus Speed 1	#F49\x0D
Focus Near Focus Speed 49	#F01\x0D
Focus Stop Focus Speed 1	#F50\x0D
Focus Stop Focus Speed 49	#F50\x0D
Iris 1	#I01\x0D
Iris 99	#I99\x0D
Iris Mode Auto	#D31\x0D
Iris Mode Manual	#D30\x0D
Pan Left Pan Speed 1	#P49\x0D
Pan Left Pan Speed 49	#P01\x0D
Pan Right Pan Speed 1	#P51\x0D
Pan Right Pan Speed 49	#P99\x0D
Pan Stop Pan Speed 1	#P50\x0D
Pan Stop Pan Speed 49	#P50\x0D
Power Off	#00\x0D
Power On	#01\x0D
Preset 1 Type Recall	#R00\x0D
Preset 1 Type Save	#M00\x0D
Preset 100 Type Recall	#R99\x0D
Preset 100 Type Save	#M99\x0D
Tally Enable Off	#TAE0\x0D
Tally Enable On	#TAE1\x0D
Tally Off	#DA0\x0D
Tally On	#DA1\x0D
Tilt Down Tilt Speed 1	#T49\x0D
Tilt Down Tilt Speed 49	#T01\x0D
Tilt Stop Tilt Speed 1	#T50\x0D
Tilt Stop Tilt Speed 49	#T50\x0D
Tilt Up Tilt Speed 1	#T51\x0D
Tilt Up Tilt Speed 49	#T99\x0D
Zoom Stop Zoom Speed 1	#Z50\x0D
Zoom Stop Zoom Speed 49	#Z50\x0D
Zoom Tele Zoom Speed 1	#Z51\x0D
Zoom Tele Zoom Speed 49	#Z99\x0D
Zoom Wide Zoom Speed 1	#Z49\x0D
Zoom Wide Zoom Speed 49	#Z01\x0D

Appendix B. Update Commands (Serial)

Extender AF Control	#D1\x0D
Iris	#I\x0D
Iris Mode	#D3\x0D
Power	#O\x0D
Tally	#DA\x0D
Tally Enable	#TAE\x0D