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 Scripter Modules, refer to the "Guide to Using Scripter Modules" document.

Device Specifications

Device Type: Camera
Manufacturer: Vaddio
Firmware Version: N/A
Model(s):   RoboSHOT 12 HDMI, RoboSHOT 30 HDMI, RoboSHOT 20 UHD, RoboSHOT 40 UHD

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scripter Version
3.16.0000-b013	2.17.0

Version History

Module Version	Date	Notes
1_1_2_1	12/1/2022	Fixed Device ID parameter for Serial control.
1_1_2_0	3/24/2021	Updates to Ethernet module: ○ Added status to Power ○ Removed Firmware Status ○ Fixed authentication Added Auto Focus status.
1_0_5_0	10/7/2019	Added model RoboSHOT 40 UHD.
1_0_4_0	3/6/2019	Added Iris command and Auto Iris status to Ethernet
1_0_2_0	11/16/2017	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'`
  - For Serial protocol only, if there is no option to set the camera ID in the camera's settings menu, then according to Vaddio it should be set to 1 within the module

Supported Classes and Examples

SerialClass
`    InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='RoboSHOT 12 HDMI')`
SerialOverEthernetClass
`    InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='RoboSHOT 12 HDMI')`
EthernetClass
`    InterfaceName = ModuleName.EthernetClass('192.168.254.254', 23, Model='RoboSHOT 12 HDMI')`

**Global Scripter Module
Communication Sheet**

Control Commands (Serial)

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

Format without Qualifier:
```
InterfaceName.Set(Command, Value)
```

Command	Value	Value	Value
AutoFocus	'On'	'Off'	

# AutoFocus example 	
InterfaceName.Set('AutoFocus', 'On')			

Command	Value	Value	
Backlight	'On'	'Off'	

# Backlight example 	
InterfaceName.Set('Backlight', 'On')			

Command	Value	Value	Value
Focus	'Near'	'Far'	'Stop'
Qualifier Key **'Speed'**	Qualifier Value '0' – '7'		

# Focus example 	
InterfaceName.Set('Focus', 'Near', {'Speed': '0'})			

Command	Value	Value	
Freeze	'On'	'Off'	

# Freeze example 	
InterfaceName.Set('Freeze', 'On')			

Command	Value	Value	Value
Iris	'Reset'	'Up'	'Down'

# Iris example 	
InterfaceName.Set('Iris', 'Reset')			

Command	Value	Value	
Mute	'On'	'Off'	

# Mute example 	
InterfaceName.Set('Mute', 'On')			

Command	Value	Value	Value
PanTiltZoom	'Up'	'Down'	'Left'
	'Right'	'In'	'Out'
	'Stop'		
Qualifier Key **'Pan Speed'**	Qualifier Value '1' – '24'		
Qualifier Key **'Tilt Speed'**	Qualifier Value '1' – '20'		
Qualifier Key **'Zoom Speed'**	Qualifier Value '0' – '7'		

# PanTiltZoom example 	
InterfaceName.Set('PanTiltZoom', 'Up', {'Pan Speed': '1', 'Tilt Speed': '1', 'Zoom Speed': '0'})			

Command	Value	Value	
Power	'On'	'Off'	

# Power example 	
InterfaceName.Set('Power', 'On')			

**Global Scripter Module
Communication Sheet**

Command	Value		
PresetRecall	'1' – '16'		

# PresetRecall example 	
InterfaceName.Set('PresetRecall', '1')			

Command **PresetSave**	Value '1' – '16'		

# PresetSave example 	
InterfaceName.Set('PresetSave', '1')			

Command **RecallTriSync**	Value '0' – '15'		

# RecallTriSync example 	
InterfaceName.Set('RecallTriSync', '0')			

Command **SetTriSync**	Value '0' – '15'		
Qualifier Key **'Speed'**	Qualifier Value 1 to 26 in steps of 1		

# SetTriSync example 	
InterfaceName.Set('SetTriSync', '0', {'Speed': 26})			

Command **WhiteBalance**	Value 'Auto' 'One Push White Balance' 'One Push Trigger' 'Sodium Lamp'	Value 'Indoor' 'ATW' 'Outdoor Auto' 'Sodium Lamp Outdoor Auto'	Value 'Outdoor' 'Manual' 'Sodium Lamp Auto'

# WhiteBalance example 	
InterfaceName.Set('WhiteBalance', 'Auto')			

**Global Scripter Module
Communication Sheet**

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
AutoFocus	'On'	'Off'

<pre># AutoFocus example 	
InterfaceName.Update('AutoFocus')
Value = InterfaceName.ReadStatus('AutoFocus')
InterfaceName.SubscribeStatus('AutoFocus', None, FeedbackHandler)</pre>		

Backlight	'On'	'Off'

<pre># Backlight example 	
InterfaceName.Update('Backlight')
Value = InterfaceName.ReadStatus('Backlight')
InterfaceName.SubscribeStatus('Backlight', None, FeedbackHandler)</pre>		

ConnectionStatus	'Connected'	'Disconnected'

<pre># ConnectionStatus example 	
Value = InterfaceName.ReadStatus('ConnectionStatus')
InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)</pre>		

Freeze	'On'	'Off'

<pre># Freeze example 	
InterfaceName.Update('Freeze')
Value = InterfaceName.ReadStatus('Freeze')
InterfaceName.SubscribeStatus('Freeze', None, FeedbackHandler)</pre>		

Mute	'On'	'Off'

<pre># Mute example 	
InterfaceName.Update('Mute')
Value = InterfaceName.ReadStatus('Mute')
InterfaceName.SubscribeStatus('Mute', None, FeedbackHandler)</pre>		

Power	'On'	'Off'

<pre># Power example 	
InterfaceName.Update('Power')
Value = InterfaceName.ReadStatus('Power')
InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)</pre>		

**Global Scripter Module
Communication Sheet**

Command	Value	Value	Value
WhiteBalance	'Auto'	'Indoor'	'Outdoor'
	'One Push White Balance'	'ATW'	'Manual'
	'One Push Trigger'	'Outdoor Auto'	'Sodium Lamp Auto'
	'Sodium Lamp'	'Sodium Lamp Outdoor Auto'	

```
# WhiteBalance example
InterfaceName.Update('WhiteBalance')
Value = InterfaceName.ReadStatus('WhiteBalance')
InterfaceName.SubscribeStatus('WhiteBalance', None, FeedbackHandler)
```

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Control Commands (Ethernet)

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

Format without Qualifier:
```
InterfaceName.Set(Command, Value)
```

Command	Value	Value	Value
AutoFocus	'On'	'Off'	
`# AutoFocus example` `InterfaceName.Set('AutoFocus', 'On')`			
AutoIris	'On'	'Off'	
`# AutoIris example` `InterfaceName.Set('AutoIris', 'On')`			
Focus	'Near'	'Far'	'Stop'
Qualifier Key **'Speed'**	Qualifier Value '0' – '7'		
`# Focus example` `InterfaceName.Set('Focus', 'Near', {'Speed': '0'})`			
Iris	Value 0 to 13 in steps of 1		
`# Iris example` `InterfaceName.Set('Iris', 13)`			
Pan	'Left'	'Right'	'Stop'
Qualifier Key **'Speed'**	Qualifier Value '1' – '24'	Qualifier Value 'Default'	
`# Pan example` `InterfaceName.Set('Pan', 'Left', {'Speed': '1'})`			
Power	'On'	'Off'	
`# Power example` `InterfaceName.Set('Power', 'On')`			
PresetRecall	Value '1' – '16'		
`# PresetRecall example` `InterfaceName.Set('PresetRecall', '1')`			
PresetSave	Value '1' – '16'		
`# PresetSave example` `InterfaceName.Set('PresetSave', '1')`			
Tilt	'Up'	'Down'	'Stop'
Qualifier Key **'Speed'**	Qualifier Value '1' – '20'	Qualifier Value 'Default'	
`# Tilt example` `InterfaceName.Set('Tilt', 'Up', {'Speed': '1'})`			

**Global Scripter Module
Communication Sheet**

Command	Value	Value	Value
Zoom	'In'	'Out'	'Stop'
Qualifier Key	Qualifier Value	Qualifier Value	
'Speed'	'1' – '7'	'Default'	

```
# Zoom example
InterfaceName.Set('Zoom', 'In', {'Speed': '1'})
```

**Global Scripter Module
Communication Sheet**

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	'On'	'Off'

# 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
ConnectionStatus	'Connected'	'Disconnected'

# ConnectionStatus example 	
Value = InterfaceName.ReadStatus('ConnectionStatus')
InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)		

Command	Value	
Iris	0 to 13 in steps of 1	

# Iris example 	
InterfaceName.Update('Iris')
Value = InterfaceName.ReadStatus('Iris')
InterfaceName.SubscribeStatus('Iris', None, FeedbackHandler)		

Command	Value	Value
Power	'On'	'Off'

# Power example 	
InterfaceName.Update('Power')
Value = InterfaceName.ReadStatus('Power')
InterfaceName.SubscribeStatus('Power', None, FeedbackHandler)		

Cable and Adapter Requirements

Captive Screw to Male RJ45 connector.

Notes for the Device

Device Baud Rate can be controlled by DIP Switches depending on the models. DIP switches can be located on the back of the camera or in the web interface on the System Page (DIP Switches tab).

Serial communication

Port Type:	RS-232		**Parity:**	None
Baud Rate:	9600		**Stop Bits:**	One
Data Bits:	8		**Flow Control:**	None

Pin Assignments Diagram
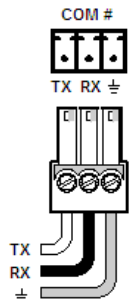
Signal	Main Cable	Pin	Signal
RxD	←	8	TxD
TxD	→	7	RxD
GND	—	6	GND

RJ-45 Camera

**Global Scripter Module
Communication Sheet**
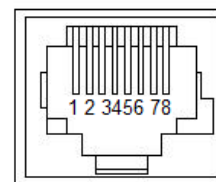
Network communication

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

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

Ethernet Module Configuration Description

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

Notes for the Device

The Vaddio RoboSHOT camera system contains the physical camera and a 'OneLink' receiver. Both units receive unique IP addresses. When trying to control the camera via Ethernet, use the **IP address of the camera**, rather than the receiver.

**Global Scripter Module
Communication Sheet**

Appendix A. Set Commands(Serial)

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 Speed 0	\x81\x01\x04\x08 \xFF
Focus Far Speed 7	\x81\x01\x04\x08'\xFF
Focus Near Speed 0	\x81\x01\x04\x080\xFF
Focus Near Speed 7	\x81\x01\x04\x087\xFF
Focus Stop Speed 0	\x81\x01\x04\x08\x00\xFF
Focus Stop Speed 7	\x81\x01\x04\x08\x00\xFF
Freeze Off	\x81\x01\x04b\x03\xFF
Freeze On	\x81\x01\x04b\x02\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
Mute Off	\x81\x01\x04u\x03\xFF
Mute On	\x81\x01\x04u\x02\xFF
Pan Tilt Zoom Down Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x03\x02\x03\xFF
Pan Tilt Zoom Down Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x03\x02\x03\xFF
Pan Tilt Zoom In Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 24 Tilt Speed 1 Zoom	\x81\x01\x06\x0A\x18\x01\x07\x03\x03\x01\xFF

Speed 7	
Pan Tilt Zoom In Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x03\x03\x01\xFF
Pan Tilt Zoom In Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x03\x03\x01\xFF
Pan Tilt Zoom Left Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x01\x03\x03\xFF
Pan Tilt Zoom Left Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x01\x03\x03\xFF
Pan Tilt Zoom Out Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x03\x03\x02\xFF
Pan Tilt Zoom Out Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x03\x03\x02\xFF
Pan Tilt Zoom Right Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x02\x03\x03\xFF

Global Scripter Module Communication Sheet

Pan Tilt Zoom Right Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x02\x03\x03\xFF
Pan Tilt Zoom Right Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x02\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x03\x03\x03\xFF
Pan Tilt Zoom Stop Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x03\x03\x03\xFF
Pan Tilt Zoom Up Pan Speed 1 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x01\x01\x00\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 1 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x01\x01\x07\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 1 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x01\x14\x00\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 1 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x01\x14\x07\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 24 Tilt Speed 1 Zoom Speed 0	\x81\x01\x06\x0A\x18\x01\x00\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 24 Tilt Speed 1 Zoom Speed 7	\x81\x01\x06\x0A\x18\x01\x07\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 24 Tilt Speed 20 Zoom Speed 0	\x81\x01\x06\x0A\x18\x14\x00\x03\x01\x03\xFF
Pan Tilt Zoom Up Pan Speed 24 Tilt Speed 20 Zoom Speed 7	\x81\x01\x06\x0A\x18\x14\x07\x03\x01\x03\xFF
Power Off	\x81\x01\x04\x00\x03\xFF
Power On	\x81\x01\x04\x00\x02\xFF
Preset Recall 1	\x81\x01\x04?\x02\x00\xFF
Preset Recall 16	\x81\x01\x04?\x02\x0F\xFF
Preset Save 1	\x81\x01\x04?\x01\x00\xFF
Preset Save 16	\x81\x01\x04?\x01\x0F\xFF
Recall Tri-Sync 0	\x81\x01\x04?\x12\x00\xFF
Recall Tri-Sync 15	\x81\x01\x04?\x12\x0F\xFF

Set Tri-Sync 0 Speed 1	\x81\x01\x04?1\x00\x00\x01\xFF
Set Tri-Sync 0 Speed 26	\x81\x01\x04?1\x00\x01\x0A\xFF
Set Tri-Sync 15 Speed 1	\x81\x01\x04?1\x0F\x00\x01\xFF
Set Tri-Sync 15 Speed 26	\x81\x01\x04?1\x0F\x01\x0A\xFF
White Balance ATW	\x81\x01\x045\x04\xFF
White Balance Auto	\x81\x01\x045\x00\xFF
White Balance Indoor	\x81\x01\x045\x01\xFF
White Balance Manual	\x81\x01\x045\x05\xFF
White Balance One Push Trigger	\x81\x01\x04\x10\x05\xFF
White Balance One Push White Balance	\x81\x01\x045\x03\xFF
White Balance Outdoor	\x81\x01\x045\x02\xFF
White Balance Outdoor Auto	\x81\x01\x045\x06\xFF
White Balance Sodium Lamp	\x81\x01\x045\x08\xFF
White Balance Sodium Lamp Auto	\x81\x01\x045\x07\xFF
White Balance Sodium Lamp Outdoor Auto	\x81\x01\x045\x09\xFF

Appendix B. Update Commands(Serial)

Auto Focus	\x81\x09\x048\xFF
Backlight	\x81\x09\x043\xFF
Freeze	\x81\x09\x04b\xFF
Mute	\x81\x09\x04u\xFF
Power	\x81\x09\x04\x00\xFF
White Balance	\x81\x09\x045\xFF

Appendix C. Set Commands(Ethernet)

Auto Focus Off	`camera focus mode manual\x0D\x0A`
Auto Focus On	`camera focus mode auto\x0D\x0A`
Auto Iris Off	`camera ccu set auto_iris off\x0D\x0A`
Auto Iris On	`camera ccu set auto_iris on\x0D\x0A`
Focus Far Speed 0	`camera focus far 1\x0D\x0A`
Focus Far Speed 7	`camera focus far 8\x0D\x0A`
Focus Near Speed 0	`camera focus near 1\x0D\x0A`
Focus Near Speed 7	`camera focus near 8\x0D\x0A`
Focus Stop Speed 0	`camera focus stop\x0D\x0A`
Focus Stop Speed 7	`camera focus stop\x0D\x0A`
Iris 0	`camera ccu set iris 0\x0D\x0A`
Iris 13	`camera ccu set iris 13\x0D\x0A`
Iris Down	`camera ccu set iris Down\x0D\x0A`
Iris Reset	`camera ccu set iris Reset\x0D\x0A`
Iris Up	`camera ccu set iris Up\x0D\x0A`
Pan Left Speed 1	`camera pan left 1\x0D\x0A`
Pan Left Speed 24	`camera pan left 24\x0D\x0A`
Pan Left Speed Default	`camera pan left\x0D\x0A`
Pan Right Speed 1	`camera pan right 1\x0D\x0A`
Pan Right Speed 24	`camera pan right 24\x0D\x0A`
Pan Right Speed Default	`camera pan right\x0D\x0A`
Pan Stop Speed 1	`camera pan stop\x0D\x0A`
Pan Stop Speed 24	`camera pan stop\x0D\x0A`
Pan Stop Speed Default	`camera pan stop\x0D\x0A`
Power Off	`camera standby on\x0D\x0A`
Power On	`camera standby off\x0D\x0A`
Preset Recall 1	`camera preset recall 1\x0D\x0A`
Preset Recall 16	`camera preset recall 16\x0D\x0A`
Preset Save 1	`camera preset store 1\x0D\x0A`
Preset Save 16	`camera preset store 16\x0D\x0A`
Tilt Down Speed 1	`camera tilt down 1\x0D\x0A`
Tilt Down Speed 20	`camera tilt down 20\x0D\x0A`
Tilt Down Speed Default	`camera tilt down\x0D\x0A`
Tilt Stop Speed 1	`camera tilt stop\x0D\x0A`
Tilt Stop Speed 20	`camera tilt stop\x0D\x0A`
Tilt Stop Speed Default	`camera tilt stop\x0D\x0A`
Tilt Up Speed 1	`camera tilt up 1\x0D\x0A`
Tilt Up Speed 20	`camera tilt up 20\x0D\x0A`
Tilt Up Speed Default	`camera tilt up\x0D\x0A`
Zoom In Speed 1	`camera zoom in 1\x0D\x0A`
Zoom In Speed 7	`camera zoom in 7\x0D\x0A`
Zoom In Speed Default	`camera zoom in\x0D\x0A`

Zoom Out Speed 1	`camera zoom out 1\x0D\x0A`
Zoom Out Speed 7	`camera zoom out 7\x0D\x0A`
Zoom Out Speed Default	`camera zoom out\x0D\x0A`
Zoom Stop Speed 1	`camera zoom stop\x0D\x0A`
Zoom Stop Speed 7	`camera zoom stop\x0D\x0A`
Zoom Stop Speed Default	`camera zoom stop\x0D\x0A`

**Global Scripter Module
Communication Sheet**

Revision: 12/1/2022

Appendix D. Update Commands(Ethernet)

Auto Focus	`camera focus mode get\x0D\x0A`
Auto Iris	`camera ccu get auto_iris\x0D\x0A`
Iris	`camera ccu get iris\x0D\x0A`
Power	`camera standby get\x0D\x0A`

Rev. B1