

# ClearOne BMA 360 Camera Tracking Module for Extron

## Products Supported

- [CONVERGE Pro 2](#)
- [BMA 360](#)

## Overview

This document describes the functions of the ClearOne Extron Camera Tracking Module. Multiple instances of this module can be supported in the same Extron program slot. Each instance of the module will be assigned to a single BMA 360 and provide real time reporting of active beam status and related preset controls for up to two cameras.

## Supported Devices

Equipment	Control Type
CONVERGE® Pro 2 DSP	Telnet
BMA 360	Via DSP
UNITE® 200 Camera	Telnet or VISCA
VISCA Enabled PTZ Camera	VISCA

The module controls the above listed ClearOne devices and provides options to assign camera presets to zones related to talker positional reporting cues.

## DSP Communication Parameters

In the tables below, [ ] indicates default values.

### Pro 2 Telnet connection properties

Location: Global Configurator-> Communications Ports-> PRO2->

IP Address	Converge Pro 2 DSP IP Address
TCP Port [23]	Communication port used for Telnet
Username [clearone]	Username assigned to the Converge Pro 2 DSP
Password [converge]	Password assigned to the Converge Pro 2 DSP

**BMA 360 ID number settings to indicate the unique ID of the BMA 360**

Location: Global Configurator-&gt; Monitors-&gt; Device Name [1] – [13]

Device Name [Training]	Defines the name of the DSP associated with the monitored BMA 360
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Location: Global Configurator-&gt; Monitors-&gt; BeamRecalled [1] – [13]

BMA360ID [101]	BMA 360 P-LINK ID number. Assigned automatically based on BMA 360 position in the Link order
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**Camera Communication Parameters**

In the tables below, [ ] indicates default values.

**Camera 1 Telnet properties**

Location: Global Configurator -&gt; Communication Ports -&gt; Camera 1 -&gt;

IP Address	IP Address assigned to Camera 1
TCP Port [5678]	Communications port used for Telnet

**Camera 2 VISCA properties**

Location: Global Configurator -&gt; Communication Ports -&gt; Camera 2 -&gt;

Baud Rate [9600]	Data rate of RS-232 based communications
Data Bits [8]	Length of data bits in each serial response
Parity [None]	Defines whether or not a Parity bit is used in communications
Stop Bits [1]	Defines how many bit periods between the end of one serial transmission and the start of the next
Flow Control [None]	Defines whether or not CTS and RTS lines are active
Mode [RS-232]	Defines the format of serial communications

**Camera 2 VISCA ID#**

Location: Global Configurator -&gt; Communication Ports -&gt; Camera 2 -&gt; Preset -&gt;

Device ID [1]	Defines the VISCA ID number used for the Camera Serial communication
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**Camera 3 Telnet properties**

Location: Global Configurator -&gt; Communication Ports -&gt; Camera 3 -&gt;

IP Address	IP Address assigned to Camera 3
TCP Port [5678]	Communications port used for Telnet

## Camera Manual PTZ Communication Parameters

In the tables below, [ ] indicates default values.

### General Camera Pan and Tilt Speeds

Location: Global Configurator -> User Interface -> Camera Control Page -> [Directional Buttons Left,Right,Up,Down]  
-> Press button properties

Pan Speed [3]	Defines the speed at which manual controls pan the camera left and right
Tilt Speed [5]	Defines the speed at which manual controls tilt the camera up and down

### General Camera Zoom Speeds

Location: Global Configurator -> User Interface -> Camera Control Page -> [Zoom In and Zoom Out] -> Press button properties

Zoom IN [3]	Defines the speed at which manual controls zoom the camera view in
Zoom OUT [3]	Defines the speed at which manual controls zoom the camera view out

## XPanel UI Description

The XPanel file associated with this module provides a working example of how to control and view module data.

Below are the pages of the UI which also help explain the functionality of the module.

### Home Page- Initial XPanel page

Displays navigation option to the user.



Figure 1. XPanel Home Page

Camera Control Page (Tracking Disabled)

Allows the user to select the camera to be controlled. The selected camera can then be manually positioned via Pan, Tilt, Focus and Zoom controls. Users can save or recall presets and adjust the global variable tracking buffer delay.

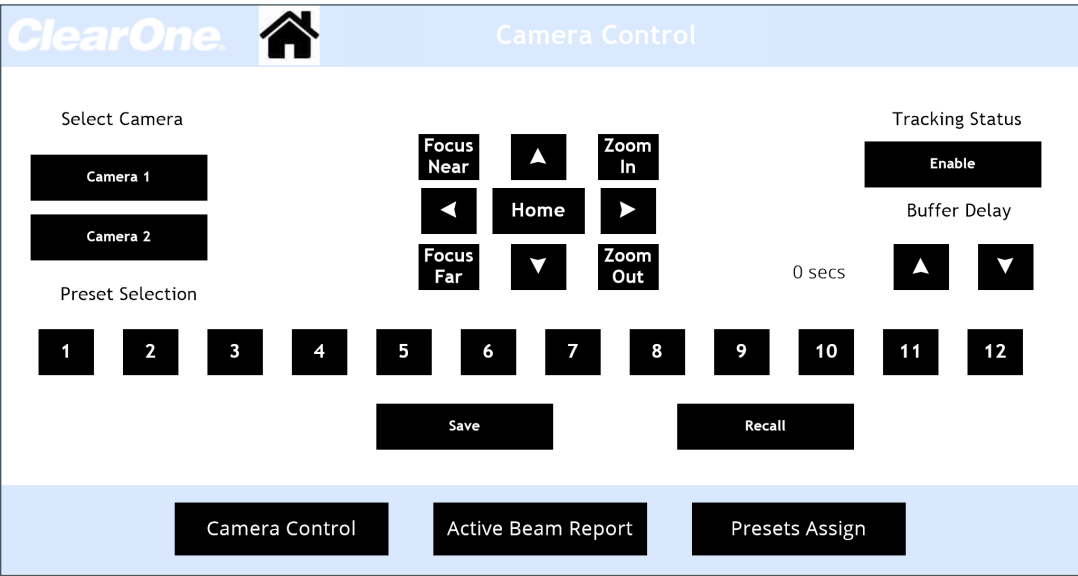


Figure 2. XPanel Active Camera Control Page

Camera Control Page (Tracking Enabled)

Enabling Tracking Status deactivates camera selection and controls and activates automated camera tracking. To regain access to manual camera control options, Tracking Status must be disabled.

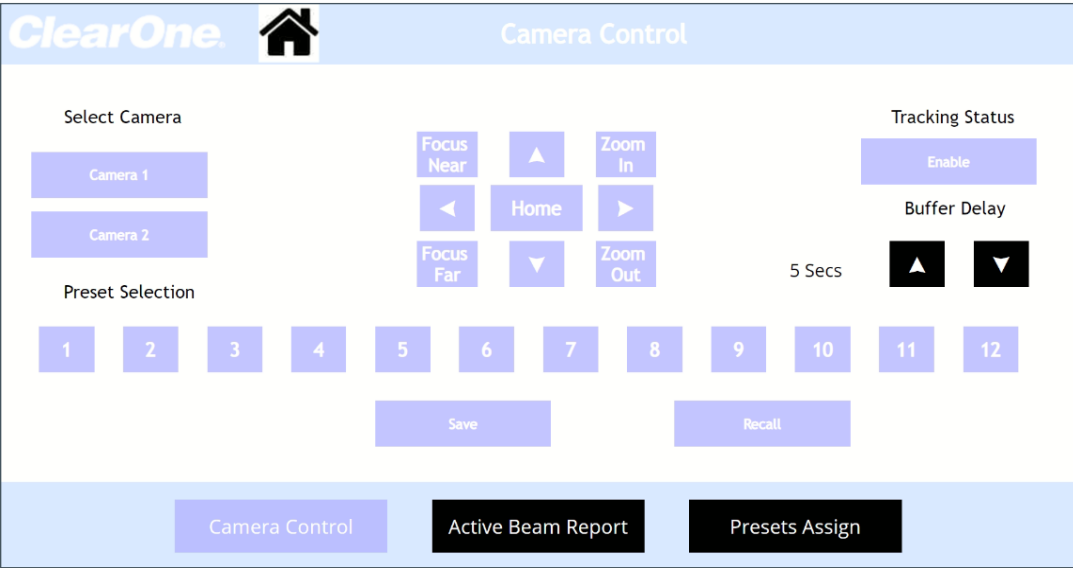


Figure 3. XPanel Camera Control Page with Tracking Enabled

## Active Beam Report Page

Allows users to view the currently active BMA 360 Zones and the related camera preset calls as they occur within the Module. The top section of this page also represents which camera last executed a preset and is considered the “Active” camera.

The screenshot shows the 'Active Beam Report' page. The header includes the ClearOne logo, a home icon, and the title 'Active Beam Report'. The main content area is divided into two columns for Camera 1 and Camera 2. Each column has a grid of 12 buttons labeled 1 through 12, with an 'Active' label above them. Below these grids is a section labeled 'Active Beam' with a row of 12 buttons labeled 1 through 12, and a 'No Beam' button. At the bottom of the page, there is a navigation bar with three buttons: 'Camera Control', 'Active Beam Report', and 'Presets Assign'.

Figure 4. XPanel Active Beam Report Page

## Presets Assignment Page

Allows for the assignment and un-assignment of any BMA 360 Zone to any camera preset. The “No Beam” zone option allows for a camera position to be assigned if no Zone is active.

The screenshot shows the 'Presets Assignment' page. The header includes the ClearOne logo, a home icon, and the title 'Presets Assignment'. The main content area is divided into two columns for Camera 1 and Camera 2. Each column has a grid of 12 buttons labeled 1 through 12. Below these grids are two buttons: 'UnAssign' and 'Assign'. At the bottom of the page, there is a navigation bar with three buttons: 'Camera Control', 'Active Beam Report', and 'Presets Assign'.

Figure 6. XPanel Presets Assignment Page

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