AMX Professional Services

AXP-CCS Instruction Manual   Revision 0.1

Document Control Data

Revision Level	Date	Initials	Comments
0.1	02/14/02	CWR	Initial Draft

---

1. CCS – Normal Mode
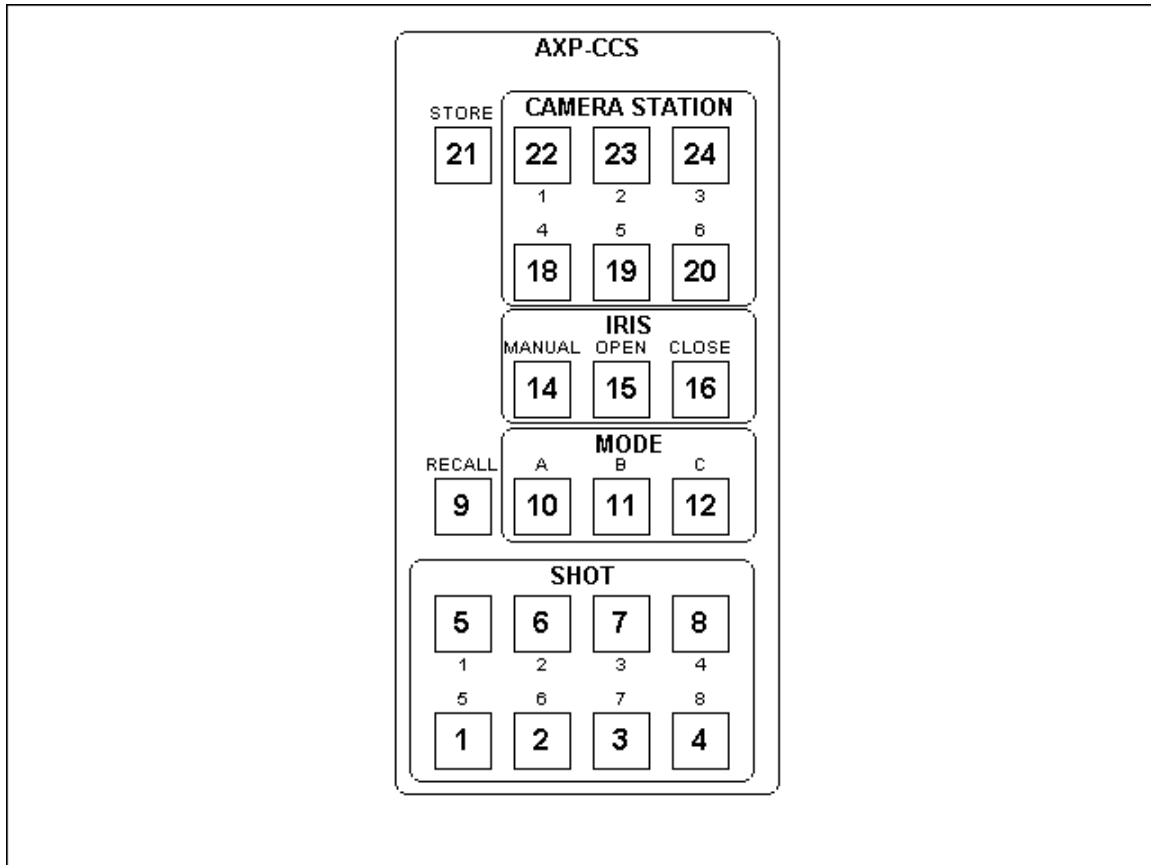
Figure 1

The AXP-CCS overlay (see Figure 1) is actually an MSP24 turned sideways. The numbers inside of each button represent the actual channel codes. Each button's functionality is described here:

Button:	Function:
Camera <x>	• Camera select buttons select a camera for control or setup. • These camera select buttons can be multiplexed using the MODE A,B,C buttons to accommodate up to 18 cameras. • If a camera select button does not turn on, this is an indicator that this camera is currently not available. This typically happens when a camera controller is removed from Axlink, or the system doesn't have this camera for control. • The camera select buttons are available for all modes (normal, setup #1, and setup #2). • NOTE: If all camera select buttons are flashing, this is an indicator that the CCS joysticks are about to be calibrated. You should leave the joysticks in their centered positions until the flashing stops. It will take up to 30 seconds after the CCS is powered up on Axlink before calibration.
SHOT <x>	• Preset select buttons select a preset number for storing or recalling for each camera. • These camera select buttons can be multiplexed using MODE A,B,C buttons to accommodate up to 24 presets. • NOTE: These shot buttons take on different functionality in the setup #1 or

|	
	setup #2 modes! See setup descriptions later in this document. • NOTE: Preset store/recall is a 2 button process, where the preset is chosen first, followed by STORE or RECALL.
MODE <x>	• Mode buttons are used to multiplex either cameras or presets. • If the system is programmed to use more than 6 cameras, the MODE will multiplex camera selects for up to 18 cameras. When multiplexing cameras, there will only be 8 preset selects per camera. • Otherwise, the MODE will multiplex preset selects for up to 24 presets for each of 6 camera selects. • These mode buttons are available while in setup.
STORE	• When a preset has been selected, the STORE button will then store the current pan, tilt, zoom, and focus positions for the selected preset. • NOTE: This button takes on different functionality in the setup #1 or setup #2 modes! See setup descriptions later in this document.
RECALL	• When a preset has been selected, the RECALL button will recall the pan, tilt, zoom, and focus positions for the selected preset. • NOTE: This button has a hidden feature, where if it is held down for 2 seconds or more, the CCS will enter setup mode #1. While in setup mode, this button will flash rapidly. While in setup #1 or setup #2, this button will also exit setup mode.
MANUAL IRIS	• This button will toggle between manual and auto iris. • NOTE: Iris control depends on whether your lenses have iris control capabilities. • NOTE: These buttons takes on different functionality in the setup #1 or setup #2 modes! See setup descriptions later in this document.
IRIS OPEN IRIS CLOSE	• These buttons open or close the iris of the lens. • NOTE: These buttons will only operate when the lens is set to manual iris mode. During auto iris mode, nothing will happen. • NOTE: These buttons takes on different functionality in the setup #1 or setup #2 modes! See setup descriptions later in this document.

2. CCS – Setup Mode #1
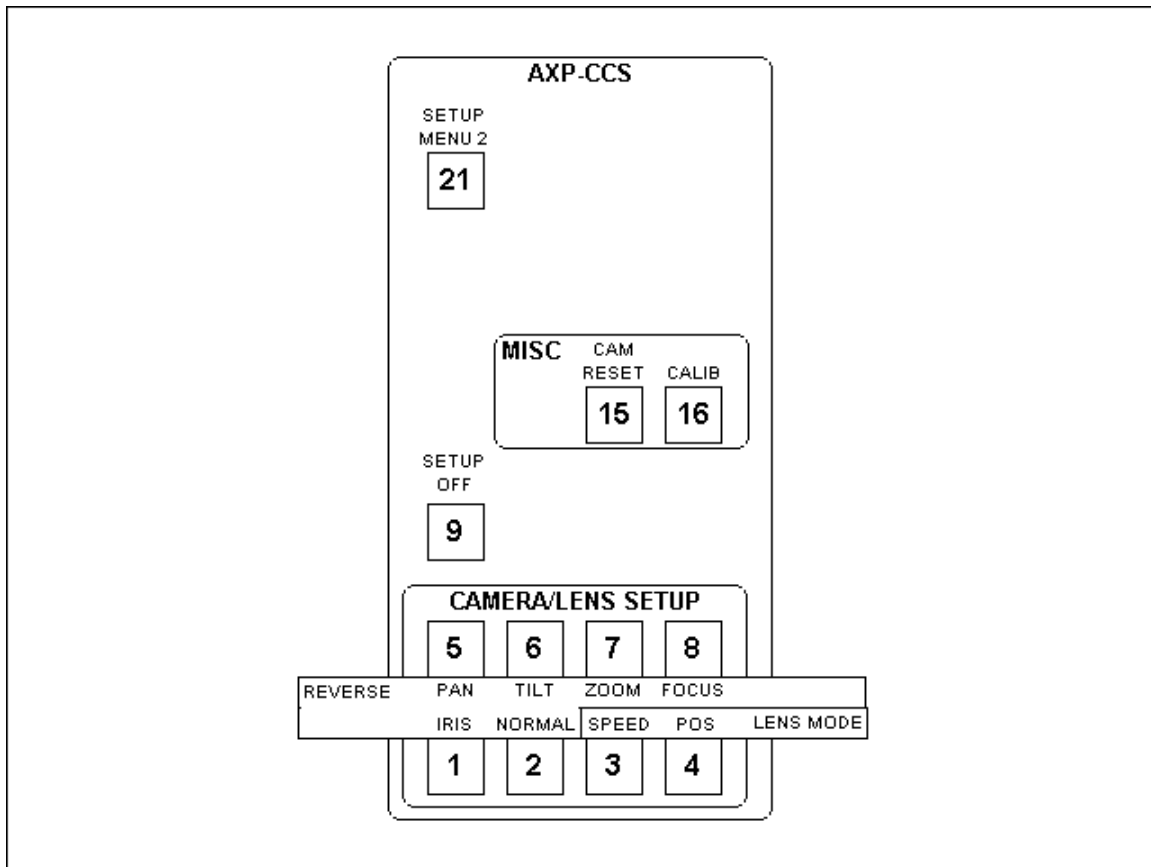
Figure 2

The AXP-CCS overlay (see Figure 2) is the button functionality while in setup #1 mode. To enter setup #1 mode, simply press and hold the RECALL button down for 2 or more seconds. While in setup mode, the setup button (channel 21) will flash rapidly. Each button's functionality is described here:

Button:	Function:
SETUP OFF	• Close setup and return to normal operation.
SETUP MENU 2	• Toggle to setup menu #2.
REVERSE PAN	• Toggle the pan direction. If this button is on, it indicates this function is reversed from normal operation. This is typically due to the fact that the polarity of the voltage applied to the motors is backwards from the normal operations.
REVERSE TILT	• Toggle the tilt direction. If this button is on, it indicates this function is reversed from normal operation. This is typically due to the fact that the polarity of the voltage applied to the motors is backwards from the normal operations. • NOTE: When tilt is set to normal or reverse, the 'TILT CURVE=NORMAL' or 'TILT CURVE=INVERT' command will be sent to the camera.
REVERSE ZOOM	• Toggle the zoom direction. If this button is on, it indicates this function is reversed from normal operation. This is typically due to the fact that the polarity of the voltage applied to the motors is backwards from the normal

	operations.
REVERSE FOCUS	• Toggle the focus direction. If this button is on, it indicates this function is reversed from normal operation. This is typically due to the fact that the polarity of the voltage applied to the motors is backwards from the normal operations.
REVERSE IRIS	• Toggle the iris direction. If this button is on, it indicates this function is reversed from normal operation. This is typically due to the fact that the polarity of the voltage applied to the motors is backwards from the normal operations.
ALL NORMAL	• This is a quick button to reset all signals to the normal mode (not reversed).
CAM RESET	• Reset the currently selected camera and send all initialization commands to the camera.
CALIBRATE	• Calibrate the joysticks of this CCS. • Calibration is required to read the "center" values of the joysticks. • NOTE: Sometimes when there is erratic behavior with joystick movements of the camera, it is a common problem that the joysticks are not calibrated correctly! • NOTE: When calibrating the joysticks, it is important to leave the joysticks in their centered positions.

3. CCS – Setup Mode #2
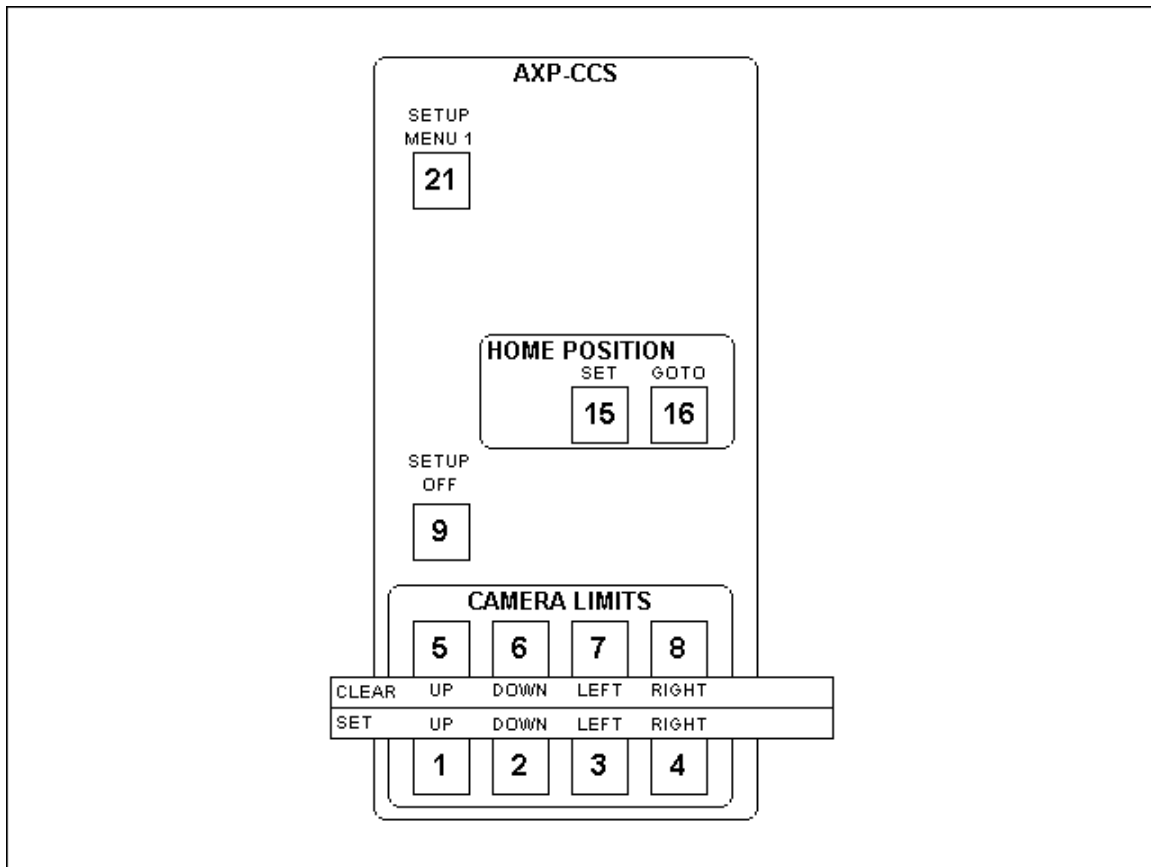
Figure 3

The AXP-CCS overlay (see Figure 3) is the button functionality while in setup #2 mode. You can only enter setup #2 from setup #1. While in setup mode, the setup button (channel 21) will flash rapidly. NOTE: setup #2 supports commands for the AXB-PT10 and AXB-PT30 only. These commands will not work for the AXB-CAM. Each button's functionality is described here:

Button:	Function:
SETUP OFF	• Close setup and return to normal operation.
SETUP MENU 1	• Toggle to setup menu #1.
CLEAR UP	• This will clear the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed. • NOTE: This will clear all preset data.
CLEAR DOWN	• This will clear the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed. • NOTE: This will clear all preset data.
CLEAR LEFT	• This will clear the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED

	will turn off when this time delay has expired and this button function will be executed. • NOTE: This will clear all preset data.
CLEAR RIGHT	• This will clear the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed. • NOTE: This will clear all preset data.
SET UP	• This will set the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.
SET DOWN	• This will set the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.
SET LEFT	• This will set the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.
SET RIGHT	• This will set the stop limit for the currently selected camera. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.
GOTO HOME	• Send the currently selected camera to it's home position. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.
SET HOME	• Set the current position of the camera as it's home position. • This function requires the button to be held down for 2 seconds. The LED will turn off when this time delay has expired and this button function will be executed.