



# Instructions

# Quad Joystick

## Operating Instructions



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The **Quad Joystick** is a powerful controller for cameras and remote heads. Almost all Bradley Engineering functions can be accessed from this controller via the LCD menu and the dedicated knobs and buttons.

### Connections

There are 2 XLR4 connectors recessed into one end of the unit. The male socket is for power input and the optional RCP input. The female socket is for power and data output to the remote heads. Both are wired the same except the data direction is reversed between the male and female sockets.

- Pin 1 - GND
- Pin 2 - Data A (RS485)
- Pin 3 - Data B (RS485)
- Pin 4 - Power In



## Primary Functions

The primary functions are accessed directly via the dedicated knobs and buttons. The LCD display will show the iris values as they are changed.

<b>Pan, Tilt &amp; Zoom</b>	The main joystick on the right controls all 3 of these functions. Rotating the joystick operates the zoom. The direction of all three functions can be reversed via the menu.
<b>Focus</b>	The focus tri-wheel control is on the left end of the console. The direction can be reversed via the LCD menu.
<b>Iris</b>	Rotating the Iris knob adjusts the iris setting from F1.6 to F28. The setting will be shown briefly in the LCD display as it is adjusted. Touching the iris knob down cycles the auto iris On or Off. Auto Iris ON is indicated by the LED.
<b>Rec/Stop Assign</b>	This button illuminates Red when a record command is sent. This is a touch-down knob. When held down and simultaneously rotated the <b>menu</b> page is changed. When the desired page is displayed release the touch down and the knob now controls the value of the setting.
<b>Select</b>	The <b>Select</b> button is used in conjunction with the <b>menu</b> to send the value selected with the knob. The display indicates when this is required.

## Assign Menu Functions

<b>Gain</b>	Adjusts the Gain from -3dB to +18dB in 3dB steps.
<b>Red Gain</b>	Requires White Balance to be set to Manual
<b>Blue Gain</b>	Requires White Balance to be set to Manual
<b>Detail</b>	Adjusts the detail level from 0 to 15. Normal around 5.
<b>Shutter Speed</b>	Adjusts the shutter speed from 1/2sec to 1/10,000 sec.
<b>White Balance</b>	Includes BARS if available
<b>Gamma</b>	There are 3 levels of gamma available.
<b>Master Pedestal</b>	+/- 99 or -15 to +99 for BE_HD10
<b>Output Standard</b>	SD or HD in 8 different standards
<b>Iris Range</b>	Set to 18 for BE_HD10 or 255 for broadcast lenses
<b>Pan Speed</b>	1 - 10
<b>Tilt Speed</b>	1 - 10 - Some heads do not have independent Pan & Tilt speeds
<b>Reverse Pan/Tilt</b>	Cycles through the 4 direction combinations
<b>Zoom Reverse</b>	Reverses the direction of the zoom control
<b>Focus Reverse</b>	Reverses the direction of the focus control
<b>Change Head ID</b>	Re-assigns the ID of the current head
<b>Reset ALL to #1</b>	Re-sets <b>ALL</b> connected heads to ID #1 (Hold down for 3 seconds)
<b>Store Preset Position</b>	Commands the remote head to store the current position as a numbered preset position.

<b>Goto Preset Position</b>	Commands the remote head to go to the numbered preset position.
<b>Infra Red Mode</b>	Toggles the IR mode on or Off
<b>Power Up Memory</b>	This feature can only be used with a <b>Protocol Converter</b> . Setting the memory will store the current Zoom and Focus positions in the <b>Protocol Converter</b> and reset them every time it powers up. Set/Clear
<b>Digital Zoom</b>	Digital Zoom On/Off
<b>Remote Relay</b>	Commands a remote relay On/Off
<b>Auto Focus</b>	Auto Focus On/Off
<b>(Set AXIS limits)</b>	This menu (if activated) allows the setting of all axis limits, centres and reference positions. <b>Pan, Tilt, Roll, Zoom, Focus, Iris</b> , are the current axes.

First select '**Clear <axis> Limits**'. Then move to one end limit and push 'Select'. Now move to the other end limit and push 'Select'. The axis will move to the centre position.

There is no requirement to set the centre or the reference position. Only set these if needed.

### Zeroing the controls

Should the Pan, Tilt or Zoom controls appear to be off-centre (sometimes this will induce drift) the controls can be electronically re-centred.

Whilst the start-up menu is displayed, pushing the **Select** button will initiate this process.

### Optional RCP input

If required, a **Remote Camera Panel** can be routed, via the **Quad Joystick** to the remote cameras. This requires a special input cable.

### Specifications

Power: 12v, 200mA  
Dimensions: W.165mm, D.90mm, H.35mm  
Output: RS485  
Max Cable: **1km**

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