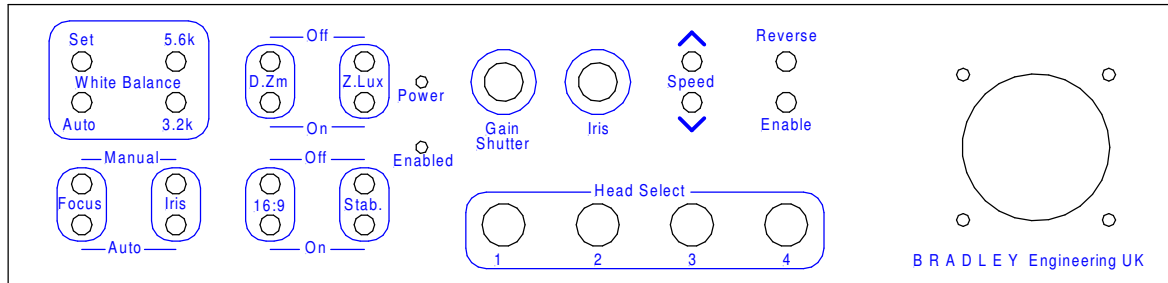


Remote Control Joystick Panel - 4 way



The Mk6 Joystick panel is used to control a variety of remote heads and cameras. Some of the controls may not apply to the particular camera or head with which it is being used. It is possible for individual users to have unused buttons assigned to other functions if required. The unit generates RS485 data and power for the head and camera.

There are two groups of controls on the panel;

1. Primary Controls; (generally on the right hand side)

Pan, Tilt, Zoom, (joystick) - Head Select, (x4) - Gain, Iris, Speed, Reverse, Focus (left side)

2. Secondary Controls; (buttons on left and Shutter knob)

White Balance, Digital Zoom, Zero Lux, Auto Focus, Auto Iris, 16:9, Stabiliser, Shutter (knob)

Primary controls are accessed directly and function all the time. Secondary controls need to be activated by first holding the **activate** button whilst selecting the desired function. For certain functions the on-screen camera display is activated for a few seconds to indicate the setting value. These functions are **White Balance** and **Shutter** selection. To activate the on-screen display to see other settings re-select white balance or change the shutter.

The **Gain/Shutter & Iris** knobs are continuously rotatable and step the values up or down. They are not absolute. Ensure that these knobs are settled at, and not in-between, a detent at power-up.

The **Reverse** button alternately reverses the direction of **Pan & Tilt**. By cycling through the 4 settings you can achieve any desired direction. This is useful if the head is inverted. The head memorises the settings of direction and speed during power-off and recalls these when powered-up again.

There are also tertiary control functions which are activated by a combination of buttons. Initial line-up and Head Ident change.

If both **speed buttons** and **enable** and **reverse** buttons are held down whilst the unit is powered up it will initiate an line-up procedure. This makes any corrections required for the joystick axes not being quite central. This has already been done at manufacture and should not need doing again as the correction values are stored and recalled each time the unit is switched on.

If both **speed buttons** and **enable** and **reverse** buttons are held down during operation this gives the opportunity to re-designate the connected and addressed head to another button. All Head Select LEDs will flash to indicate a selection needs to be made. The connected head will now operate on the new button. Beware of selecting two or more heads to the same ident number.

If the **activate** and both **D.Zoom** buttons are held simultaneously the direction of the Zoom control will be reversed.

Power is supplied to the unit via the male XLR4 plug on the side.

Pin1 = GND

Pin2 = 10 - 30 volts DC (12v nominal)

Connection to the head is via the female XLR4 socket on the side.

Pin1 = GND

Pin2 = RS485 A ch.

Pin3 = RS485 B ch.

Pin4 = +ve

The cable length to the head can be up to 1km using good quality balanced cable for the data pair. Star-Quad cable works well with GND on the screen, Data down one half of the pair and +ve on the other two. For shorter runs any standard 4-core cable is sufficient.

For long runs it may be necessary to raise the input voltage above 12 volts towards 30v (max.) to get enough power to the head and camera.

Up to 4 cameras and heads can be connected in a 'daisy chain' manner to the controller. Each head recognises its' own ident, selected by the **Head Select** buttons. The focus control is absolute and therefore the controller memorises the focus setting for each camera and recalls this when re-selected. Only if the **Focus** control is moved will the new focus position be sent. This prevents cameras adopting the focus position of the last selected camera.