

IRIS506/507/517 Fitting and Operating Instructions.

The IRIS5xx Series control unit and remote keyboard is a PTZ controller designed to be used to operate the Pan Tilt and Zoom features of IRIS's range of marine PTZ and Thermal PTZ cameras. The controller sends RS485 serial data to the camera and is preset to transmit data using the Pelco D protocol at a baud rate of 9600bps. The IRIS5xx Series can also control third party PTZ devices but must be configured accordingly. For more information contact Iris Innovations or your Iris dealer.

IRIS5xx Series Contents:

The IRIS516/517 is shipped with the following components. Ensure these items are included in the packaging:

1. Controller Unit
2. Joystick Unit
3. Power Cable Tail
4. Data to Camera Cable Tail
5. Joystick Cable (2m CAT5 STP Cable)
6. Fixing Template

WIRING CONNECTIONS: POWER
RED +12VDC
BLACK GND
WIRING CONNECTIONS: DATA
GREEN RS485+ (RS485-A)
WHITE RS485- (RS485-B)

Fitting Guidelines:

1. Consider where the joystick is going to be installed and the proximity of the Joystick to the Controller Unit. The Joystick must be installed no further than 2 meters from the Controller Unit.
2. Use the Fixing Template to drill the 4 x 5mm screw clearance holes and to cut the 65mm hole required for the body of the Joystick Unit.
3. Ensure correct orientation of the Joystick Unit and fit into place. It is recommended that a silicone sealant (such as Sikoflex) be used on the underside of the Joystick Unit bezel if mounting externally to prevent ingress of water.
4. Find a suitable position for the Controller Unit (no greater than 2 meters from the Joystick Unit) and fix into place using appropriate fixings. Connect the Controller Unit to the Joystick Unit using the 2 meter CAT5 STP cable (supplied). The controller unit must be located internally away from moisture.
5. Connect the serial data feed to the camera using the cable tail supplied. The camera data cable can be identified by the 3 pin connector. Ensure correct polarity. If, following installation, the camera doesn't respond to joystick operation, switch the polarity of the data pair.
6. Connect the power supply to the power cable tail supplied. Ensure correct polarity is observed. Connect +12VDC to the Red core, and GROUND to the Black core. Ensure the power supply to the Control Unit is safely isolated using a suitably rated fuse of preferably, circuit breaker. The Controller Unit is rated at 12VDC ~ 1A.

Operation:

Once correctly installed and powered up, use the joystick to drive the camera by moving in the desired direction. To Zoom IN, twist the Joystick head Clockwise and to Zoom OUT twist anti-clockwise.



Warning: This product, its packaging, and its components contains chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our website www.boat-cameras.com



IRIS506/507/517 Joystick Operation

Once correctly installed and powered up, use the joystick to drive the camera by moving in the desired direction. To Zoom IN , twist the Joystick head Clockwise and to Zoom OUT twist anti-clockwise.

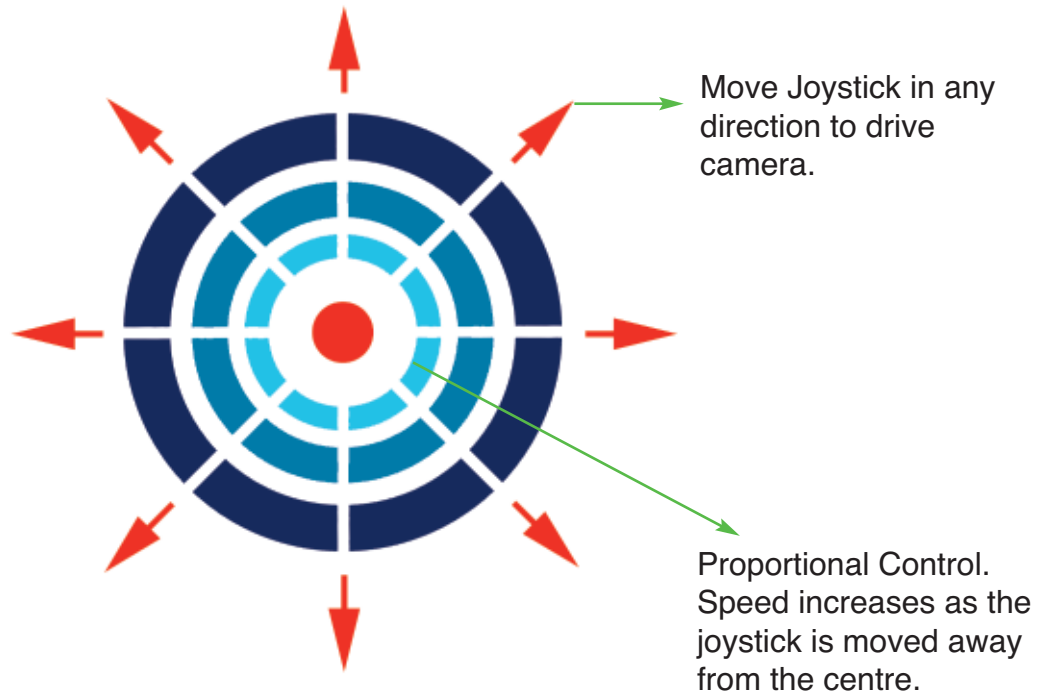
To access the colour coded extended features of the controller, move the joystick to the appropriate position whilst holding down the function button with the corresponding colour.

Proportional Control:

The joystick controller is geared so that the pan, tilt and zoom speed increases progressively away from the central position. The closer the centre point, the slower the control, the further away, the faster the control.

Note: Zoom Gearing...

In order to enable much greater accuracy when zoomed in, the camera will automatically calculate the degree of zoom and gear the control so that the pan and tilt speed reduces.

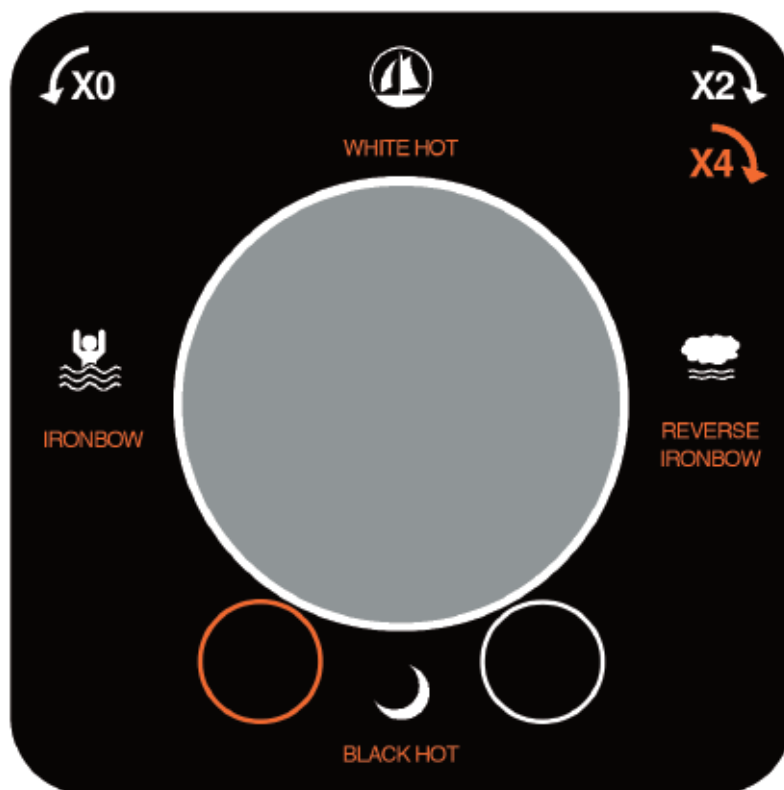


IRIS507 Thermal Joystick Operation

Control of the IRIS216/316 Thermal Camera is achieved using the IRIS507 controller variant.

The IRIS507 operates in the same way as the IRIS506 but the features specific to the thermal camera are operated by moving the joystick UP, DOWN, LEFT and RIGHT whilst pressing one of two colour coded 'feature keys'.

There are two feature keys, one coloured orange and one coloured white, and the specific features they operate are printed onto the joystick bezel in the appropriate colour. Below is a picture of the joystick bezel which clearly shows the coloured feature keys and how the bezel is labelled in accordance with which joystick actions are required to operate specific functions.



To Select Colour Schemes:

White Hot: Press ORANGE feature key and move joystick up.

Black Hot: Press ORANGE feature key and move joystick down.

Ironbow: Press ORANGE feature key and move joystick left.

Reverse Ironbow: Press ORANGE feature key and move joystick right.

To Select Contrast Modes:

Normal Operation: Press WHITE feature key and move joystick right

Man Over Board Mode: Press WHITE feature key and move joystick left

Histogram Mode: Press WHITE feature key and move joystick up

Night Mode: Press WHITE feature key and move joystick down.

Digital Zoom:

Twist joystick clockwise to zoom in and anti-clockwise to zoom out. Models supporting 2x and 4x digital zoom only work as per the instructions below:

2x Digital Zoom: Twist joystick fully clockwise

4x Digital Zoom: Press ORANGE feature key and twist joystick fully clockwise

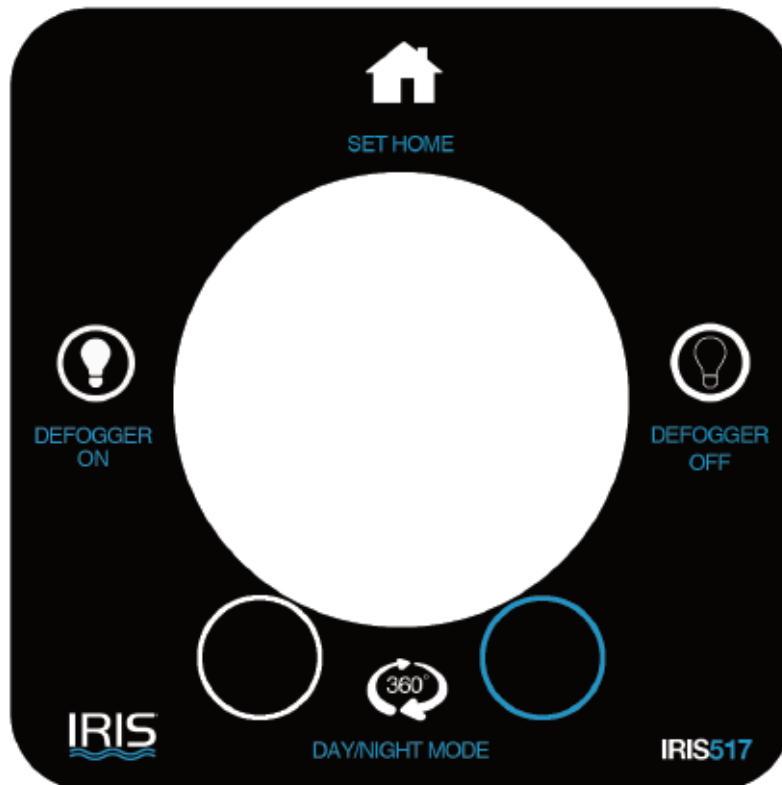
0x Zoom: Twist joystick fully anti-clockwise

IRIS517 Joystick Operation (IRIS117/118 Cameras)

Control of the IRIS117/118 Low Light Cameras is achieved using the IRIS517 controller variant.

The IRIS517 operates in the same way as the IRIS506 but the features specific to the 117/118 cameras are operated by moving the joystick UP, DOWN, LEFT and RIGHT whilst pressing one of two colour coded 'feature keys'.

There are two feature keys, one coloured white and one coloured blue, and the specific features they operate are printed onto the joystick bezel in the appropriate colour. Below is a picture of the keyboard bezel which clearly shows the coloured feature keys and how the bezel is labelled in accordance with which joystick actions are required to operate specific functions.



Functions Triggered by White Feature Key:

Call Home Position: Press WHITE feature key and move joystick up.

360° Scan Mode: Press WHITE feature key and move joystick down.

LED's On: Press WHITE feature key and move joystick left.

LED's OFF: Press WHITE feature key and move joystick right.

(Please Note: With certain cameras the correct DAY/NIGHT mode must be in operation before LED's will operate. Refer to the user guide of your camera for further details.

Functions Triggered by Blue Feature Key:

Set Home Position: Press BLUE feature key and move joystick up.

Toggle Day / Night Mode: Press BLUE feature key and move joystick left

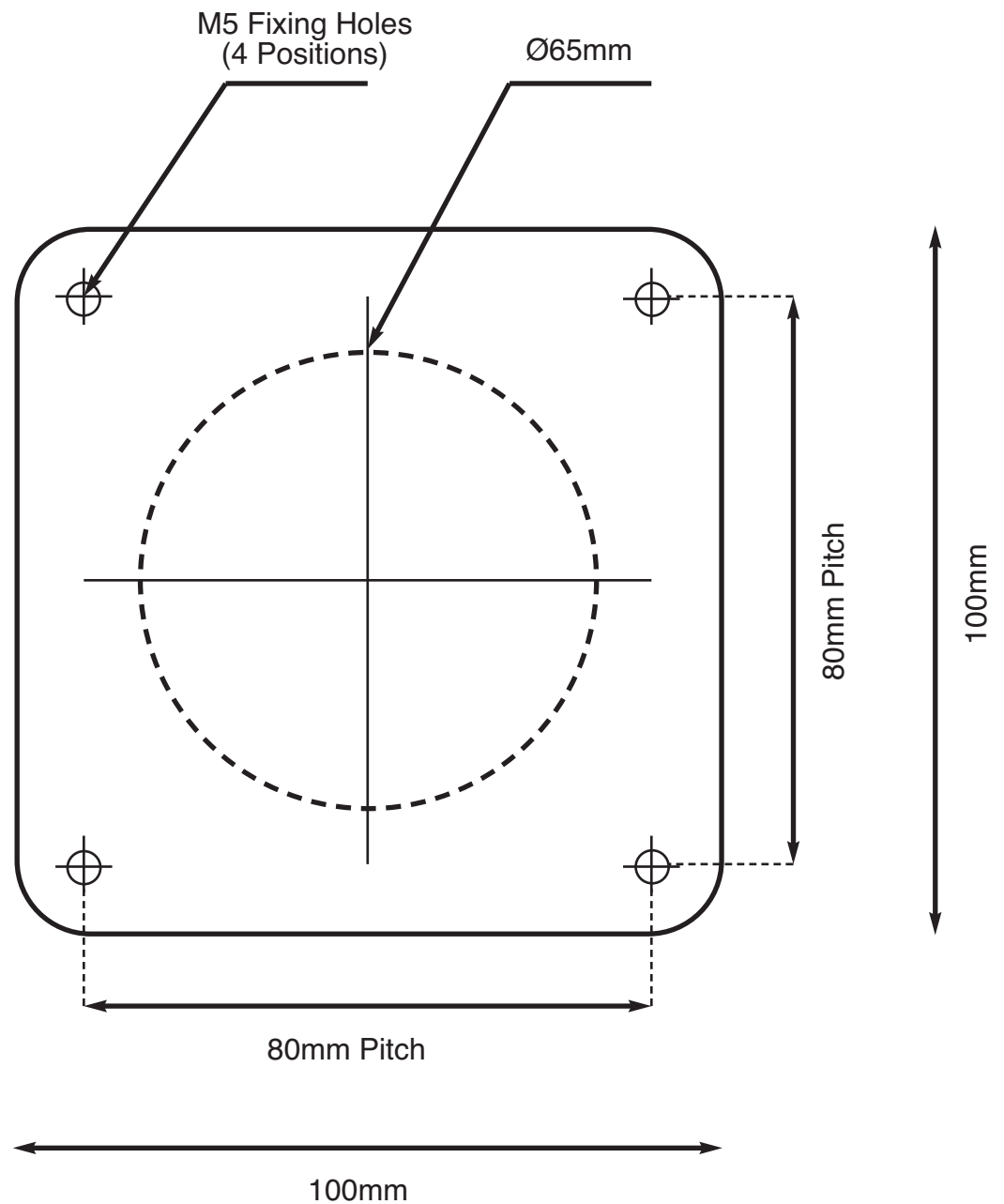
Defogger ON: Press BLUE feature key and move joystick up

Defogger OFF: Press BLUE feature key and move joystick down.

Please Note: Proportional operation does not work when selecting features with feature keys. Joystick must be moved to each position fully to operate.

Please note: If camera is installed or configured to be inverted this may invert camera controls depending on the camera model and firmware level. Consult your camera user guide or contact Iris for details.

IRIS506/507/517 Joystick Fixing Template



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