

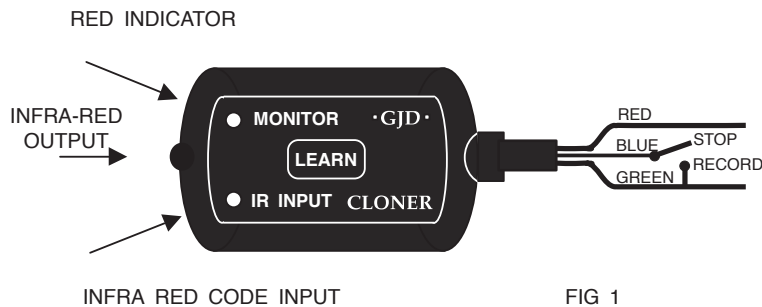
GJD 'IR2' CLONER

The GJD 'IR2' CLONER has been designed to learn the 'Record' and 'Stop' commands from most infra-red remote controls.

This forms the basis of a CCTV system using a standard video recorder working in conjunction with interior or exterior detectors.

The GJD CLONER converts the input signal into infra-red codes. Inputs less than 5 seconds will produce a 30 second record time. Inputs longer than 5 seconds will produce a record time equal to the length of the input signal.

Application notes for controlling a video recorder using the GJD CLONER with other GJD products are detailed in this leaflet.



Specification:

RED = +9 to 15VDC at 6mA standby 20mA operating
BLUE = Input - switched negative.
GREEN = Negative
IR output = 38KHz RC5 coded

The 'MONITOR' lights when an input is present and stays lit for the duration of the record time.

A contact between 'BLUE' and 'GREEN' will send an infra-red 'RECORD' code when closed and a 'STOP' code when open.

The GJD CLONER is supplied with 1.5 metres of 3-core cable, a placement pad for secure fixing and a code protection patch.

LEARNING PROCEDURE

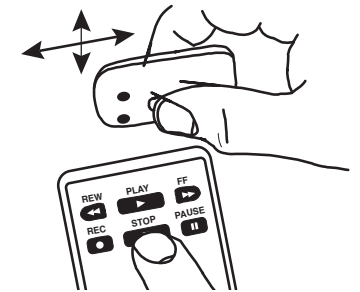
Ensure the batteries in the remote control are in good condition. The Learning Procedure should be done in a dimly lit area.

When the power is first applied to the GJD CLONER the 'MONITOR' will blink three times.

With the Video Remote Control on a flat surface, position the CLONER 'IR INPUT' approximately 25mm (1") in front of **and at right angles** to the infra-red emitter on the remote control (as illustrated)

Hold typically the 'STOP' button down. Adjust the position left, right, up and down to achieve the brightest MONITOR signal.

Release the 'STOP' button keeping the alignment and position steady.



IMPORTANT:

Alignment must be maintained throughout the learning procedure.

- (1) Press and hold 'LEARN' - the monitor indicator blinks once and after five seconds lights.
- (2) **RELEASE THE LEARN BUTTON**
The CLONER is now ready to LEARN the codes.
- (3) Press the 'RECORD' button * on the Remote Control for one second. The 'MONITOR' flashes once - storing the 1st code.

* Where two buttons are required for 'record' press the red button first and then the second button.
- (4) Wait until the 'MONITOR' lights.
Press the STOP button on the Remote Control for one second. The 'MONITOR' flashes twice - storing the 2nd code.

The codes are stored even when the power is removed.

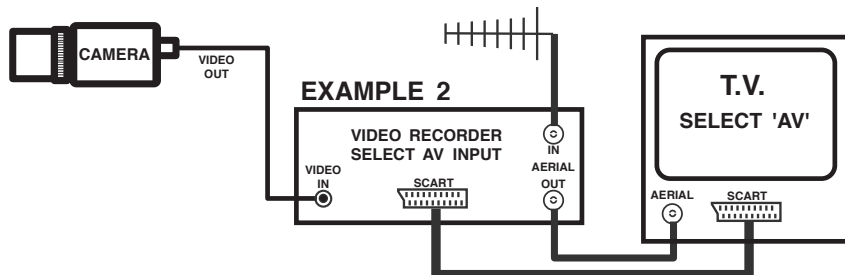
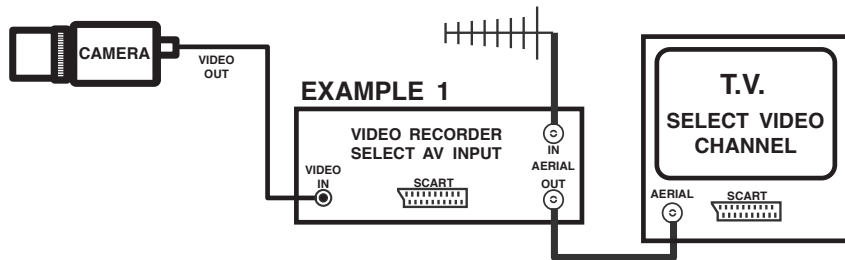
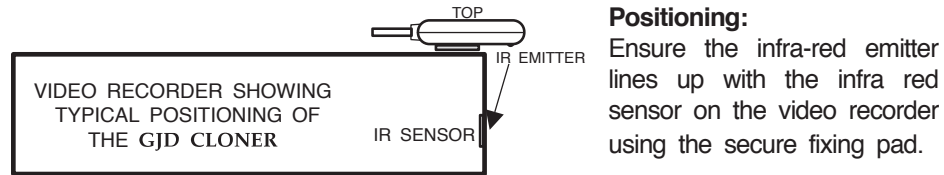
If the 'MONITOR' flashes for 5 seconds at any point the codes have not been stored - when the flashing has stopped repeat the procedure.

TESTING AND ALIGNMENT

TESTING -

- (1) Turn the video recorder on and insert a tape.
- (2) Position the CLONER with the infra-red emitter on the base pointing to within 500mm (18") of the infra-red sensor on the video recorder.
- (3) Press 'LEARN' on the CLONER for one second.
- (4) Video recorder starts recording
- (5) 'MONITOR' lights for 10 seconds
- (6) Video recorder stops.

If the video does not operate, reposition the CLONER and re-test. Repeat the learning procedure if this does not work. When satisfied fit the small black patch (supplied) over the 'IR INPUT' window to prevent code corruption.

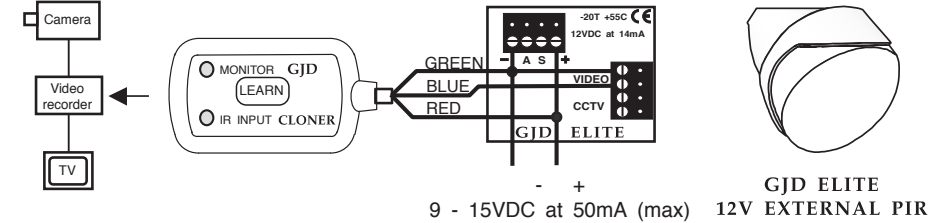


'IR2' CLONER APPLICATION EXAMPLES:

Controlling a video recorder for single camera CCTV applications.

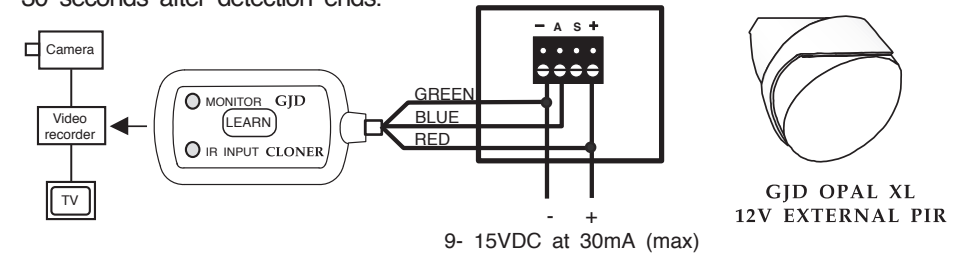
1) CONNECTION TO THE GJD ELITE 35 MTR EXTERNAL P.I.R.

On detection the 'VIDEO' output closes, the GJD CLONER then sends an infra-red 'RECORD' signal to the video recorder. An infra-red 'STOP' signal is sent 5 to 60 seconds after detection ends. (See Mode 6 on Elite installation instructions)



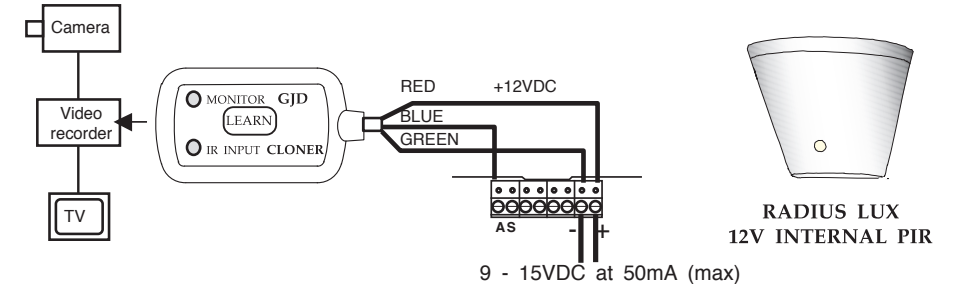
2) CONNECTION TO THE GJD OPAL XL 35 MTR EXTERNAL P.I.R.

On detection the 'A' output switches negative. The GJD CLONER then sends an infra-red 'RECORD' signal to the video recorder. An infra-red 'STOP' signal is sent 30 seconds after detection ends.



3) CONNECTION TO THE RADIUS LUX 15MTR INTERNAL P.I.R.

On detection the 'A' output of the GJD RADIUS LUX PIR switches negative. The GJD CLONER sends an infra-red 'RECORD' signal to the video recorder. 30 seconds after detection ends an infra-red 'STOP' signal is sent.



Further application notes for the connection of the 'IR2' Cloner to the GJD Video Managers plus the Sapphire, Emerald and Solitaire Lighting Controllers are available on request.