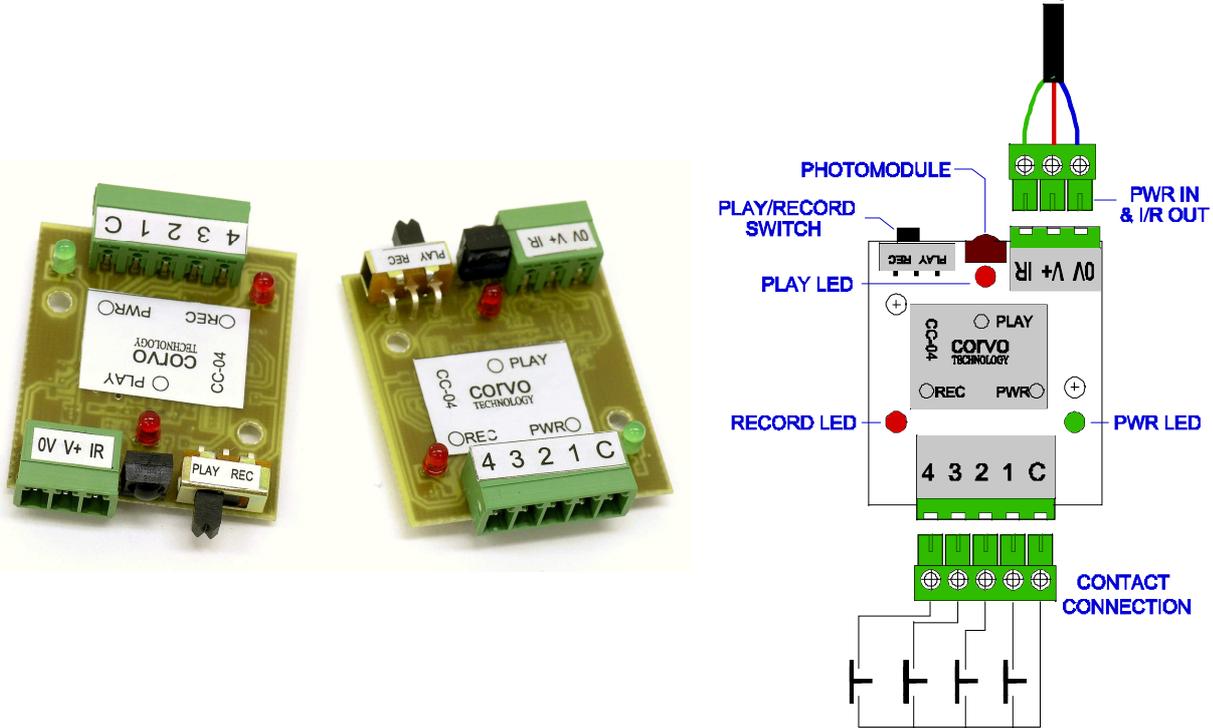


# CodeCap-04

## 4-Channel I/R Remote Control Code Recorder and Player



### Product Description

The CodeCap-04 is designed to record (learn) four I/R remote control codes and to play the codes through a wired I/R output to a connection module or flasher. A simple dry contact or open collector closure is used for both the recording and playback function. All commonly used I/R code families can be used. The I/R output of the codes is on a 40-KHz carrier. Usually the original remote control is used for the recording. A 12-V power supply is required. Flash memory is used so codes cannot be lost in the absence of the power supply.

### Connections

- A 3-conductor cable carrying the power supply and I/R wired output is connected through the removable 3-point connector. The I/R/ output can be sent to a connection module or directly to a flasher.
- The pushbuttons or other potential-free momentary contact devices are connected with a common (C) wire to the 5-point removable connector.
- Two solder pads are available on the PCB to connect an external I/R led to show when the output is active.

### Operation

When power is applied the red I/R led lights briefly while the software loads and the green power led remains on.

To record or learn an I/R code proceed as follows:

- Place the slider switch in record (REC) position
- Press briefly the button under which the code is to be stored.
- Press briefly the original remote control button for the code to be learned while pointing the remote control at the on-board photomodule at a distance of 15-20 cm. The record led will blink once and several seconds later it will blink twice if the code has been successfully learned. If the led blinks 3 times, the procedure must be repeated. If the memory already contains a code that is to be replaced, it may be helpful to hold down the button being programmed continuously until the led blinks 3 times and then perform the recording procedure.
- Move the slider switch to the play position and press the button just programmed. The I/R play led will flash while pressing the button indicating an I/R output. Be careful not to press a button already programmed while the switch is in the record position as this may erase the code.

When all codes are recorded and verified return the switch to the play position. The CC-04 is now ready to use.

### Technical Specifications

Number of I/R Codes : 4

I/R Output Current : 15mA

Command devices: pushbuttons, relay contacts, OCS

I/R Output Carrier Frequency : 40 KHz

PCB Size : 34 x 38 mm (excluding connectors)

Mass : 7 Grs (excluding cable connectors)

Recording carrier frequency range: 30 – 100 KHz

Minimum code pulsewidth: 150 microseconds

Memory technology: Flash

Power Requirements : 12Vdc, 20mA

Operating Temperature range: 0 to 60 Degrees C.

Storage temperature range: -20 to 80 Degrees C.