

FEATURES

- § Capable of learning 2 codes from an Infra-Red Remote Control Handset. (Usually the Record and Stop functions for a VCR),
- § Adjustable Record time,
- § Built in buzzer alert,
- § Buzzer enable/disable function,
- § Record enable/disable function,
- § Non-volatile memory. Retains programming after a power loss,
- § LED indication to show Record enabled status,
- § Record and Stop function test switches,
- § LED programming error indication.

**HOW DOES IT WORK?**

The controller works by “learning” up to 2 infra-red control commands from a remote control handset. In theory, it is possible to learn almost any remote control command but the Video Control Module is usually used to learn the **Record** and **Stop** signals from a VCR handset.

Once you have learnt the **Record** and **Stop** commands for a domestic VCR, you can “trigger” the Video Control Module to start the VCR recording and then to stop it recording after an adjustable delay.

This process turns a standard domestic VCR into an “event-only” recording device.

NB, the VCR must be a model that uses an infrared remote control. Whilst most VCR models by the following manufacturers are covered, it cannot be guaranteed that each individual model is included.

Manufacturers.

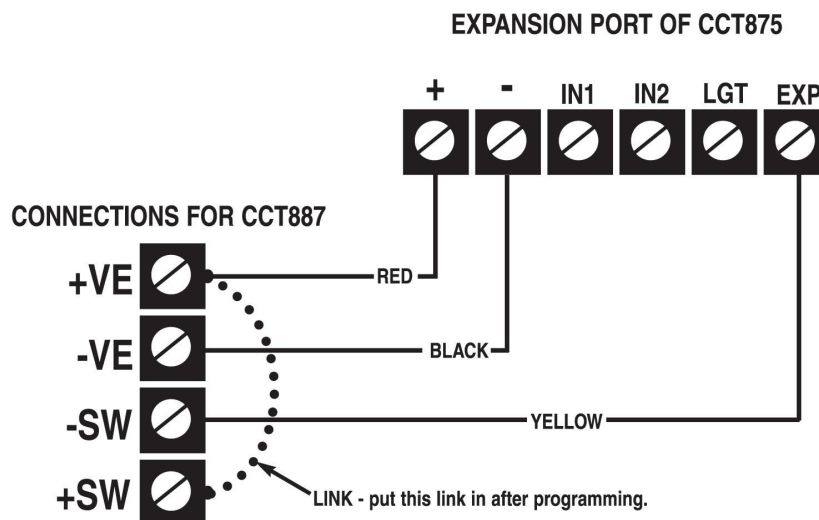
Aiwa * Akai * Alba * Amstrad * Baird * Blaupunkt * Bush * Daewoo * Decca * Degraaf * Ferguson (certain later models are excluded) * Fidelity * Finlandia * Finlux * Fisher * Funai * GEC * Goldstar * Goodmans * Granada * Grundig * Hinari * Hitachi * ITT * ITT-Nokia * LG * Pye * Saisho * Salora * Samsung * Sansui * Sanyo * Schneider * Sentra * Sharp * Shintom * Sony * Tashiko * Tatung * Telefunken * Thomson * Thorn * Thorn-Ferguson * Toshiba *

ALTHOUGH THE VIDEO CONTROL MODULE IS A SIMPLE DEVICE TO INSTALL AND OPERATE, THERE ARE SEVERAL STAGES TO THE INSTALLATION. EACH OF THESE MUST BE COMPLETED CORRECTLY OR THE UNIT WILL NOT FUNCTION. PLEASE USE THESE INSTRUCTIONS CAREFULLY AND DO NOT RUSH ANY STAGE.

MODES OF OPERATION

- **CONNECTING TO A CCT875 CONTROL UNIT.**

If you are using the CCT887 Video Control Module with the Advanced-Vision Control Unit (CCT875), you will need to connect a cable between the units. This cable will provide power for the Video Control Module as well as a trigger signal that tells it to start recording. Future add-ons for the unit will include a wire-free trigger from any device including the CCT875 Control Unit.

Connection Diagram – to a CCT875 Control unit.

+VE = 12V

-VE = 0V. (or Ground)

-SW = Negative Switched Trigger

+SW –Positive Switched Trigger

Notes

When the CCT875 Control Unit goes into an alarm condition, the EXP terminal goes from 12V to 0V and sends a 0V trigger pulse to the Video Control Module. This is called a negative trigger.

Because the CCT875 uses a switched negative to trigger the Video Control Module, you will need to put a small link wire between the +12 supply (+ve) and the switched + terminal (Sw+). This is shown in the diagram above.

Once you have connected and powered up the Video Control Module, you can proceed to the next stage, PROGRAMMING.

TIP – to avoid any false activation during the programming stage, it is recommended that you leave the link out until you have successfully programmed the unit.

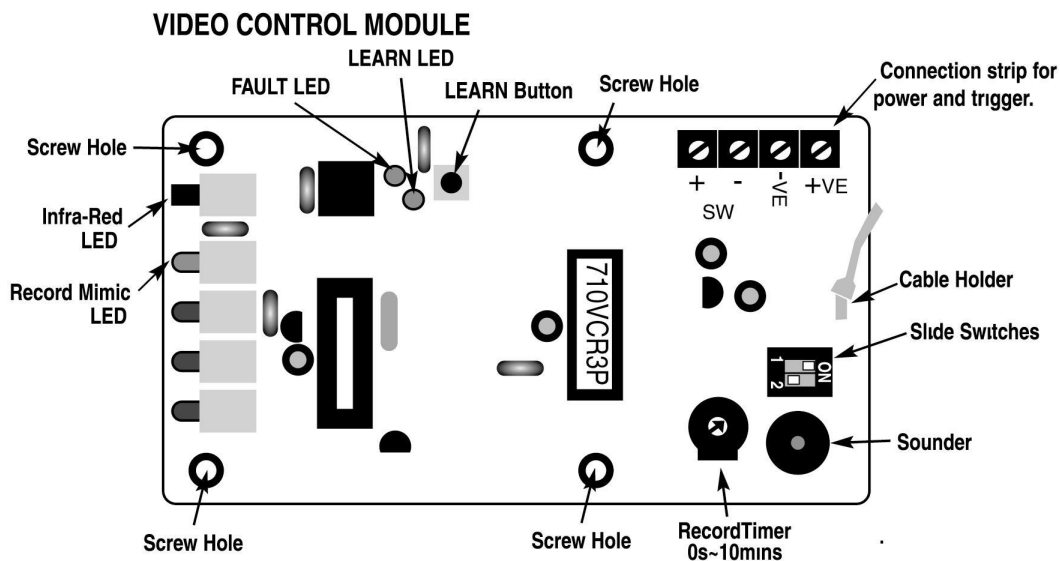
Programming Steps – RECORD & STOP CODES.

Before starting you must ensure that you have the Remote Control handset available that will operate the VCR you intend to be using.

PREPARING TO PROGRAMME THE UNIT

The first installation of the Video Control Module will require you to remove the 4 screws from the back of the unit and remove the case to access the PCB inside.

With the back case removed the PCB will look as follows:

**PROGRAMMING**

You can only program the Video Control Module when it has 12V power connected to it.

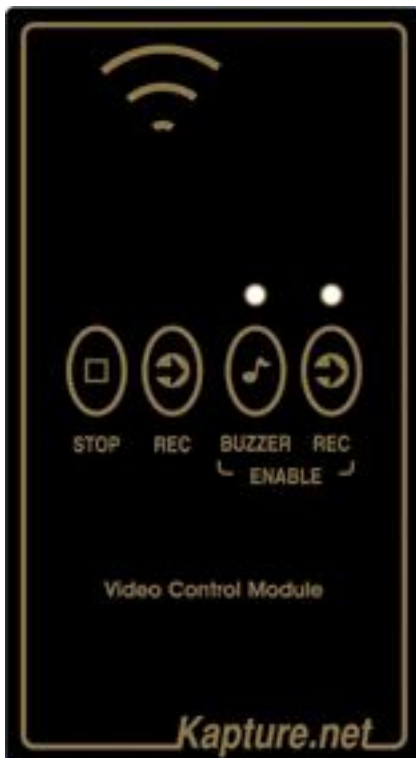
1. Remove the lid of the Video Control Module and position the Remote Control Handset approximately 4-6" away with each unit's LED panel facing each other.
2. Locate the LEARN button on the Video Control Module (black button next to the 2 red LEDs, see above diagram). Press this button so that the LEARN LED illuminates and hold it for approximately 3 seconds until it becomes brighter. As the LED becomes brighter, immediately release the button as this signifies that the unit is now in LEARN MODE.
3. Immediately press the RECORD button on the Remote Control Handset that you wish to copy so that the LEARN LED switches off. The Record button should be pressed immediately as leaving the VCM in its learning mode for too long can cause the unit to start recording changes in ambient light thinking that this is an infra-red signal by mistake. If this happens, you should return to step 2.

CCT887**Kapture.net Video Control Module (VCM)**

4. The LEARN LED switching off means that the code has been learnt. Turn the unit over in your hand and press the REC button on the front control panel, this stores the record code for the unit.
5. To verify that the code has been stored correctly, when the REC button on the front of the unit is held down, the LEARN LED inside should be illuminated.
6. You must now programme the unit with the correct STOP code for the VCR. Again, locate the LEARN button on the VCM (black button next to the 2 red LEDs, see diagram). Press this button so that the LEARN LED illuminates and hold it for approximately 3 seconds until it becomes brighter. As the LED becomes brighter, immediately release the button as this signifies that the unit is now in LEARN MODE.
7. Immediately press the STOP button on your Remote Control Handset so that the LEARN LED switches off.
8. The LEARN LED switching off means that the code has been learnt. Turn the unit over in your hand and press the STOP button on the front control panel, this stores the stop code for the unit.
9. To verify that the code has been stored correctly, when the STOP button on the front of the unit is held down, the LEARN LED inside should be illuminated.
10. To check that the correct codes have been stored, you can now point the unit at your customer's VCR, insert a tape and by pressing the REC button on the CCT887 unit, it should start the VCR recording. By pressing the STOP button on the unit, the VCR should stop recording.

RECORD TIMER.

When an alarm activation is received by the Video Control Module, once programmed it will send out a Record signal to start the VCR recording followed by a Stop signal to stop the VCR recording. The time it takes for the unit to send out the Stop signal depends on the setting inside the Video Control Module. The adjustable control (see diagram) can be adjusted using a small screwdriver from – to +, from 20 seconds to 10 minutes by turning the pot clockwise.

**FRONT PANEL CONTROLS**

Once powered up, look at the front control panel of the unit as shown on the left. The red LED marked REC ENABLE should be illuminated which means that the recording facility is ready to operate. This is the default setting of the unit, which is restored whenever the unit is powered down.

The red LED above the BUZZER ENABLE button should not be illuminated on powering up. This means that the Buzzer alert is switched off, this is the default setting. The Buzzer alert can be activated by pressing the button once marked "Buzzer Enable".

If this unit is fitted in a loft or locked cabinet, even if there is a power interruption to the equipment, the unit will be ready to start recording activations as soon as power is resumed. This means that you or your customer will not need to access the unit after a power interruption. The codes that were learnt by the unit in the programming

stage will still be retained as the unit has a non-volatile memory and will not lose its code even after an extended power interruption.

BUZZER ENABLE BUTTON

Press the Buzzer Enable button to toggle between enabling and disabling the Buzzer alert. When enabled, the red LED above the button will be illuminated.

With the Buzzer enabled, every time, the Video Control Module receives a trigger input, an audible alarm will alert the user. This setting can be adjusted by the installer to sound each time a trigger is received or each time the unit starts the VCR recording. Further information on these settings is available in the Slide Switch Settings that follows.

RECORD ENABLE BUTTON

Press the Record Enable button to toggle between enabling and disabling the Record facility of the unit. When enabled, the red LED above the button will be illuminated.

With the Record facility enabled, every time the Video Control Module receives a trigger input, the pre-programmed infra-red record signal will be emitted from the unit to start the customer's VCR recording. After a period of time set by the adjustable Record Timer adjust, the unit will send out a STOP signal.

SLIDE SWITCH SETTINGS.

The Slide Switches located on the PCB of the Video Control Module are used to alter the actions of the Buzzer and Record modes as follows:

Switch j

Used to alter the setting for the buzzer function and has 2 setting ON/OFF. The buzzer can be completely switched off by using the Buzzer Enable button on the front panel of the unit.

ON – the Buzzer will sound only at the beginning of each record cycle, it will not sound again until after the record cycle has timed out and another alarm is detected.

This setting is recommended as it will prevent the unit from continually bleeping whilst activity is taking place, eg, someone walking in front of a PIR. Instead using this setting, the unit will sound just once when it first receives a trigger, at the beginning of each recording period. If a door contact or other device is used, then the unit must be set to this mode. This will prevent constant activation of the buzzer, if say, the door is left open.

OFF – In the OFF position the buzzer will sound every time a trigger signal reaches the unit. In some instances, this may be a useful feature but for general use it could prove irritating for the end-user. We recommend, therefore, that this switch is set to ON.

Switch k

This switch is used to control how the Video Control Module will send out its record signal when it has received a trigger.

CCT887 Kapture.net Video Control Module (VCM)

OFF – this allows the unit to send out one infra-red Record pulse to the VCR when it has received a trigger. This is the most common setting and should normally be used.

ON – Occasionally on some VCR models, they require more than one infra-red signal in order to start recording. On receiving a trigger when the unit is left on this setting, it will send out two pulses to the VCR.

When you have finished programming the unit, the case can be replaced on the VCM to prevent the unit from being reprogrammed by the end-user by accident.

We suggest the following settings for these switches:

Switch 1	Buzzer Settings	ON P	OFF P
Switch 2	Record Settings		P



SPECIFICATION

Alarm Input	4- 25V DC (Opto Isolated)
Battery Back-up	Non-volatile memory
Record Time	20 Seconds - 10 minutes
Control Method	Non contact Infra Red
Voltage Input	12V DC
Current Consumption	30mA
Size	H 24mm x W 66mm x L 112mm

All specifications are approximate. System Q Ltd reserves the right to change any product specification or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd. cannot be held responsible in any shape or form for any losses no matter how they arise from errors or omissions in these instructions.

If you have a report from a customer that the system only records intermittently, check out EXACTLY how they use the system before you embark on a wild goose chase!! It is possible it could be their misunderstanding of the system!