

OPTI-CAM

CCTV OBSERVATION & VCR SYSTEM

**User Setup & Operating Instructions
(4PI155)**



TECHNICAL HELP-LINE



0906 – 302 0999

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User Set-up Options Menu

Function

This menu allows the user access to features which may need changing on a regular basis as circumstances change, such as changing the times when you want the operating modes to change, and when you want lights to come on.

The Pop-up menu is accessed by pressing from the main display screen. The following menu will then be displayed on the monitor screen.



Editing

Use ← & → buttons to highlight menu item, ↵ to select dialog, and ESC to exit menu.

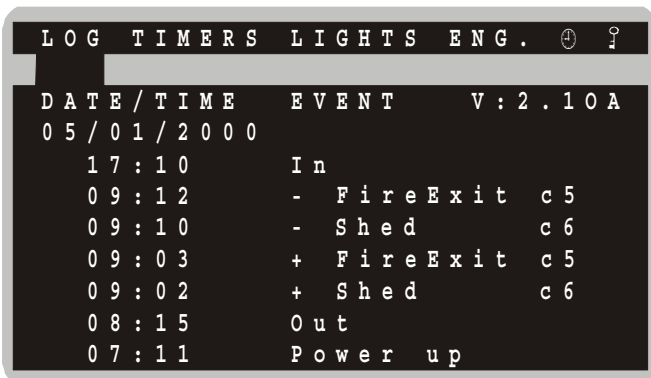
LOG

Function

Displays the events of importance in reverse chronological order. Such as changes in mode of operation, when the system is powered up, watchdog trips, changes in time and date, and when active cameras are triggered and un-triggered. Each event is time stamped and the type of event recorded.

Cameras are displayed with full name followed by the camera number. The + and – symbol indicates when the camera was activated and de-activated respectively.

Date changes are stored as events only when other events occur on that day, and they are displayed preceding those events for clarity.



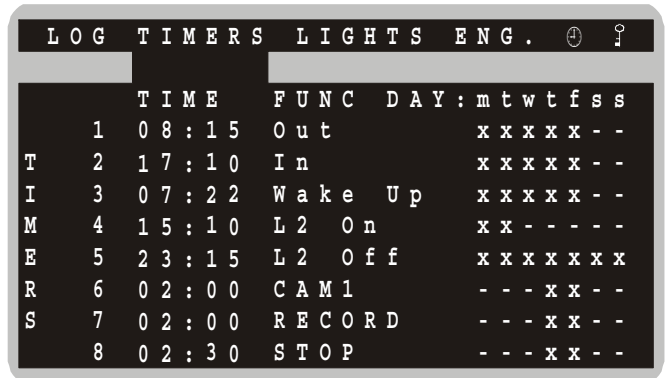
Using

↑ & ↓ buttons, will scroll the log up and down a line at a time. ← & → buttons will scroll the log down and up 7 lines at a time. Pressing ↵ will cancel the log dialogue and clear the Tamper output, and turn off the ! (Alert Light) on the RKP. Pressing the ESC key will simply cancel the log dialogue.

TIMERS

Function

Use this dialogue to enable/operate functions at specific times of the day/week. There are 32 timers available, listed in groups of 8. Each timer has a **TIME** of day it will operate, a **FUNCTION** to perform, and a list of days on which to perform it starting with Monday.



Editing

Use ↑, ↓, ←, → keys to move about.

Press ↵ to edit a field, ↵ again to accept change, or ESC to cancel change.

If the field is a tick box, then the field state is toggled between enable (X) and disable(-) when enter is pressed.

To exit the dialogue, press ESC when out of editing mode.

When editing :-

TIME – is split into hours (24hr) and minutes. ↑ & ↓ will increment and decrement by 1, while ← & → will increment and decrement by 10.

FUNC – is the function to be executed and each function is explained in the table below.

FUNcTION	Description	FUNcTION	Description
None	NO FUNCTION	L1 On	Turn Light 1 On
In	Switch to IN mode	L2 On	Turn Light 2 On
Out	Switch to OUT mode	L3 On	Turn Light 3 On
Manual	Switch to Manual mode	L4 On	Turn Light 4 On
Scan	Switch to Scan mode	L5 On	Turn Light 5 On
Exit On	Turn all Exit lights On	L6 On	Turn Light 6 On
Exit Off	Turn all Exit lights Off	L7 On	Turn Light 7 On
Lghts On	Turn all lights On	L8 On	Turn Light 8 On
LghtsOff	Turn all lights Off	Cam1	Select Camera 1
RECORD	Start VCR RECORD	Cam2	Select Camera 2
STOP	STOP VCR	Cam3	Select Camera 3
REWIND	REWIND TAPE	Cam4	Select Camera 4
S List A	Switch to Scan List A	Cam5	Select Camera 5
S List B	Switch to Scan List B	Cam6	Select Camera 6
L1 Off	Turn Light 1 Off	Cam7	Select Camera 7
L2 Off	Turn Light 2 Off	Cam8	Select Camera 8
L3 Off	Turn Light 3 Off	Wake Up	Generate wake up call which lasts about 3 seconds
L4 Off	Turn Light 4 Off		
L5 Off	Turn Light 5 Off		
L6 Off	Turn Light 6 Off		
L7 Off	Turn Light 7 Off		
L8 Off	Turn Light 8 Off		

DAY:mtwtfss – is the day list. An X represents the day on which the timer will operate.

LIGHTS

Function

The Lights dialogue allows assignments of lights to cameras and exit routes. Each light can independently have a daylight trigger threshold and a duration from 0 – 99 seconds, assigned to it. This allows you to tailor the lighting control for lights which are in different environments.

Important: Lights 1-4 will obey daylight sensor attached to controller 1, and Lights 5-8 will obey daylight sensor attached to controller 2. If only one sensor is attached to the system, whether it be on controller 1 or controller 2, then that sensor is used by all lights. If no sensor is attached then no daylight control is possible.

CAM	1	2	3	4	5	6	7	8	EXIT	LEV.	⊕
1	x	x	-	-	-	-	-	-	-	na	05
L	2	-	x	-	-	-	-	-	-	40	10
I	3	-	x	-	-	-	-	-	-	50	30
G	4	-	-	x	-	-	x	-	x	na	20
H	5	-	-	-	x	-	-	-	-	na	99
T	6	-	-	-	-	-	x	-	x	50	10
S	7	-	-	-	-	-	-	-	-	30	20
8	-	-	-	-	-	-	x	x	-	na	10

Editing

Use ↑, ↓, ← and → buttons to move about.

Numeric fields are edited by pressing ← and using the arrow keys to increment/decrement. ← again will exit the edit mode with the new value, while ESC will exit restoring the old value.

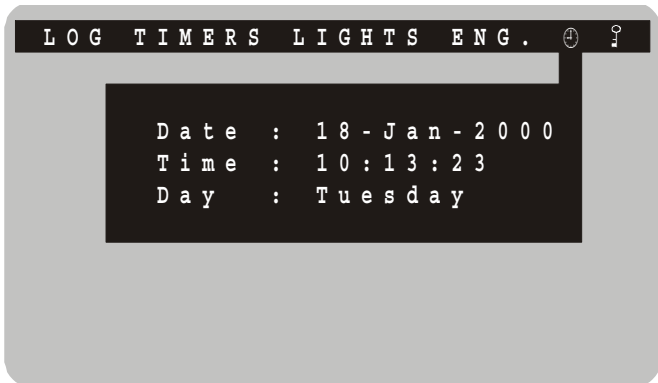
ESC when not in edit mode will return you to the user menu.

- The 8 x 8 matrix shows camera stations 1 to 8 along the top, and lights 1 to 8 down the side. This allows you to assign any of the possible lights to any of the camera PIR inputs.
- Use ← key to toggle Enable/Disable CAM/LIGHT associations, and Exit lights.
- Use ← to edit LEV. which is the daylight level threshold for each of the lights. For lights which you do not want to follow daylight control (i.e. indoor rooms, cupboards) set the level to 'na' for not applicable. The level corresponds to how light it is (1 very dark to 99 very light). Cam1 button can be used to load the current light level read from the controller. It is necessary to have the sensors enabled under the commissioning menu before they are obeyed by the system.
- ⊕ represents the duration in seconds (0..99) that the light will remain on when triggered by a camera PIR. The light is level triggered, so it will stay on continuously while the PIR input is active.

⊕ (CLOCK)

Function

This dialogue allows the user to set the time and date. Note the day is automatically calculated. **British summer time is not automatically adjusted** as the dates are not calculable and are not set far enough into the future.



Editing

Use ← & → buttons to move between fields, ↑ & ↓ to alter and ← or ESC to exit. All changes have immediate effect.

🔑 (User Password)

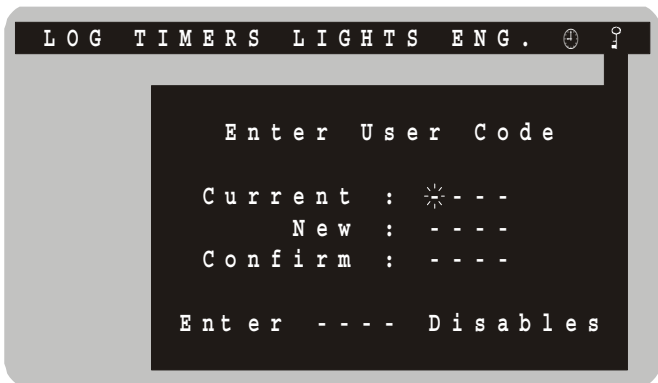
Function

This allows the user to enter a password to lock all keypads and remote controls out when entering into 🏠 (OUT) mode (regardless of how it was set) or when locked manually by the user by pressing ESC and ← keys together during normal function.

The default password is blank and unless changed using this function will not be requested by the system.

When the system is locked out, the user must type in the 4 correct digits and ← to regain control. Asterisks are displayed showing how many digits have been entered. If no digit is pressed for 5 seconds, the asterisks disappear and you must re-enter from the beginning.

With no user code, the system will **not** enter lockout mode.



Editing

To enter a code simply type in 4 digits (1..8 for each digit using the camera select buttons) then press ←.

You are required to type in the 'Current' code before assigning a new one. If no code currently exists, then simply press ←.

Now enter a 'New' code and repeat the same code for the 'Confirm'. This ensures you don't accidentally mistype a code, then not know what code to unlock the system.

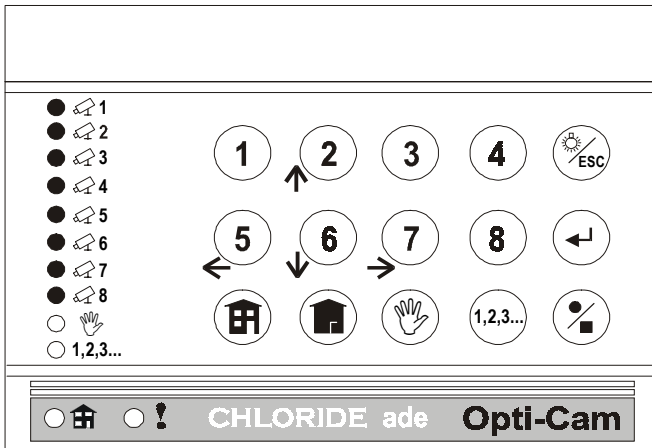
If no user code is wanted, simply press ← for both 'New' and

USER OPERATING INSTRUCTIONS

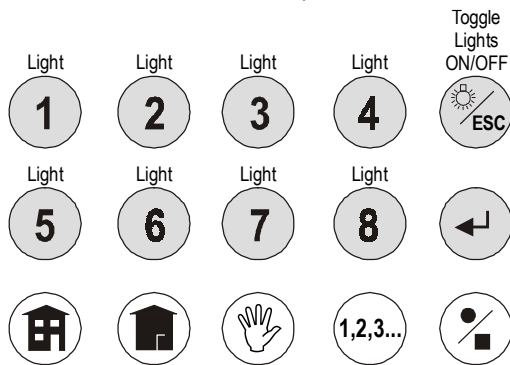
THE CONTROLS

Take a moment to familiarise yourself with the remote keypad and VCR control panel before operating the system.

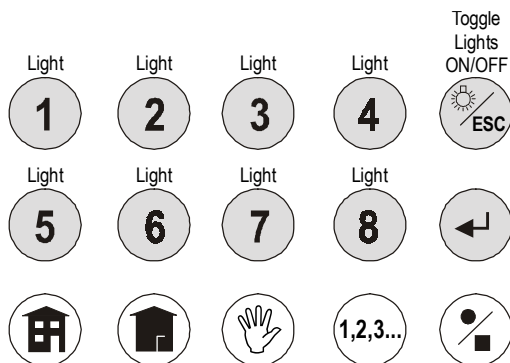
The majority of the system controls are operated through the remote keypad and are as follows :-



- **BUTTONS 1 TO 8** – Camera select buttons.
- **↵** – Enter button
- **☀** – Lights shift button. When this is pressed, buttons 1 to 8 now operate lights. You have 5 seconds to press a camera button before it times out and the camera buttons resume normal function. Once a camera button is pressed, the timer is set to 3 seconds. Pressing Enter cancels the light control function so cameras can then be selected more quickly. What lights are operated depends on what the CAM/LIGHT setting is in the MODE dialogue in the Engineering menu. When set to N (no) the functions available are shown as shaded buttons in the button map below :

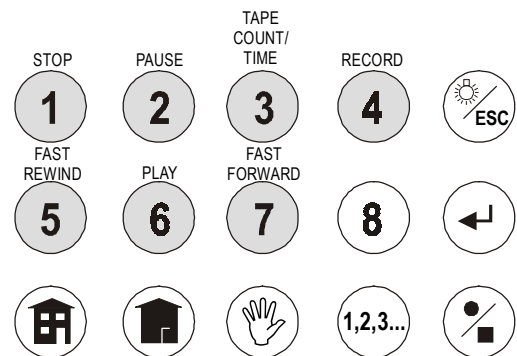


When set to Y (yes) the functions available are shown as shaded buttons in the button map below :



- **🏠** – IN mode set. Disengages OUT function. The IN indicator lamp will be on in this mode.

- **🏠** – OUT mode set.
- **👤** – Manual mode. Enable user camera selection. Manual indicator lamp will be on in this mode.
- **1,2,3...** – Scan mode. Momentarily shows each camera picture. Scan indicator lamp will be on in this mode. Pressing the scan button again will display a quick select menu from which you can select which scan list you wish to use. Repeated presses of the scan key will toggle between the lists. Which ever list is highlighted is the list which is immediately acted on. The menu will time out after a few seconds from the last scan button press. Pressing Enter will remove the lists from the display.
- **📺** – VCR remote control shift button. When this is pressed, buttons 1 – 7 now control the VCR. When the VCR is recording or in stop mode, this function times out, otherwise it stays locked in this mode until the enter key is pressed. The functions available are shown as shaded buttons in the button map below :



ARROW FUNCTIONS :

The arrow functions associated with buttons **2, 5, 6 & 7** are only available when in the User Set-up or Engineering Set-up modes. From the normal mode these two optional modes are accessed using the ENTER button. Press once for User Set-up and ENTER again for Engineering Set-up. Refer to appropriate section in manual for further menu information.

NOTE – The system will not respond to PIR triggers in this mode

MANUAL LOCKOUT :

This function allows the user to prevent unauthorised access of the system provided the 4 digit user password has been set up. This can be set up in the User Set-up mode.

To lockout press the **ESC** and **↵** button together.

To regain system control input 4 digit user password and then the **↵** button. An asterisks (*) will be shown on the monitor to acknowledge each digit entry.

Lockout is also entered when the **🏠** mode is activated.

ALERT INDICATION (!):

The alert indicator lamp will be lit to show that an event has been recorded. It can be cleared via the Event log display available in the User Set-up mode.

MAIN VCR UNIT CONTROL :

The only function available from this unit is the STOP/EJECT button. **ALL OTHER BUTTONS HAVE BEEN INHIBITED.**

TROUBLE SHOOTING GUIDE

This trouble shooting guide is broken down into hardware related problems to help you identify your problem and give suitable remedies.

If the fault is not listed check that your application is within specifications detailed at the front of this manual.

If all else fails then get in touch with your equipment supplier.

Problem	Remedy
Lights don't operate when movement sensors are triggered.	<ol style="list-style-type: none"> 1. First ensure PIRs are functioning. One trick is to set all PIRs you want to test as Chime points (Eng.Menu- Mode dialog). That way the system will beep when the PIR is activated. If it doesn't refer to '<i>Installing Cameras in Installation section</i>'. 2. Next ensure the lights you want activating are assigned to the camera (User Menu. Lights dialog). 3. Ensure if a value other than na (Not Applicable) is set for the light in the LEV column, then the light will only come on automatically when the light sensor senses a level below that set. If is set to na then the light is turned ON.
Lights come on during day light hours.	<ol style="list-style-type: none"> 1. Has a daylight sensor been fitted. This is an LDR in a little plastic dome which should be fitted on the roof. 2. Has System been correctly informed of which controller has the sensor. See commissioning menu for Light Controller set-up
Manual control of lights doesn't seem to work as expected.	<ol style="list-style-type: none"> 1. You may have the CAM/LIGHT association set to 'Y' in the MODE dialogue under the Engineering menu. That means lights will operate in accordance with the light and camera association defined in the LIGHTS dialogue under the User menu. If you want button 1 to operate light 1 and button 2 to operate light 2, ensure CAM/LIGHT is set to 'N'.
One or more lights don't operate at all.	<ol style="list-style-type: none"> 1. Check the fuses in the Lighting Controller. 2. Check the mains LED status in the lighting controller. (This should only be done by a qualified electrician as it exposes live parts). If the LED is off, then the power to the lighting controller has been interrupted, so check isolation switch / fuse.
No lights come on, and the LED status in the Lighting controller remains unchanged when lights are being requested to turn on/off.	<ol style="list-style-type: none"> 1. Ensure correct continuity in the wires connecting Opti-Cam and the Lighting controller. The cable resistance should not exceed 10Ω.

General

Problem	Remedy
No Picture on monitor	<ol style="list-style-type: none"> 1. Check System is switched ON. The display on the front should have some text/numbers on it, if it is on. 2. Ensure monitor is ON. Refer to its manual if in doubt. 3. Ensure correct leads connect between video out of Equipment to video in on monitor. 4. Ensure correct AV channel is selected on your TV / monitor.
Low volume on Cameras	<ol style="list-style-type: none"> 1. Use volume control in the Camera dialogue located under Engineering menu to adjust volume setting for each camera. 2. Check monitor / TV volume setting.
On Screen Text is being sheered at the top of the screen.	<ol style="list-style-type: none"> 1. You may have a problem with the length of cable. The video signal must be connected with low capacitance screened cable up to no further than 150m from Opti-Cam to the Camera. If the cable run is less than this, then check screen cable has been used. The camera cable supplied with the camera is of the correct type. 2. If the cable type and length is correct, and the problem does not occur on all cameras, then the camera may be faulty. As a work around, the OSD time and date may be moved to a different area of the screen, where it is not affected, and menus accessed while on a camera which doesn't give this problem.
The picture becomes very grainy in low light.	<ol style="list-style-type: none"> 1. Chloride Safety Systems black and white cameras work down to 0.1 lux. This is very dark, but in total darkness additional lighting is required. Our lighting controller can be used to provide automatic lighting when PIRs are activated.

PIRs

Problem	Remedy
PIRs don't seem to be working	<ol style="list-style-type: none"> 1. Set all cameras to CHIME and then walk in line of sight of each camera PIR and listen for chime. If it doesn't then they are not working. 2. If not working check wiring diagram. 3. If they are working, ensure you have them enabled in the respective IN, OUT, 24HR, CHIME and LIGHTS modes under the MODE dialogue located in the Engineer Menu.
PIR(s) seem only to trigger when a loud noise occurs.	<ol style="list-style-type: none"> 1. The microphone output from the camera has been connected to the PIR input into Opti-Cam. No damage should have arisen from this, but it is not recommended because the trigger levels cannot be guaranteed.

APPENDIX A

Observation Kit (8EP364)

This listed the components supplied in this kit :

CSS Part No.	Description
6EP366	System Control unit
6EP365	System Remote Keypad (Wired)
2PT126	Accessory Connector
2PT167	Twin Phono Plug to Phono Plug Lead 1.5m
2PT166	SCART Audio/Video IN to Phono Adapter
2PT165	BNC to Phono Adapter
	Instruction Manual

System Accessories

These are not supplied with the system kit but should be considered for system building or expansion

Compatible Cameras for use with The system

CSS Part No.	Description
OPT520	Internal/External black/white camera, 52° viewing
OPT900	Internal/External black/white camera, 90° viewing
OPT780	Internal/External black/white camera, 78° viewing
OPT780C	Internal/External colour camera, 78° viewing
OPT900/w	Internal/External black/white camera, 90° viewing
OPT520/w	Internal/External black/white camera, 52° viewing
OPT780/w	Internal/External black/white camera, 78° viewing
OPT780C/w	Internal/External colour camera, 78° viewing
ATC82	External black/white, 78° Vandal resistant
ATC80	78° Vandal resistant camera

All cameras come with a 15m cable with prepared end and 6pin Mini DIN plug (ATC31)

Additional PIRs

ADE/CSS Part No.	Description
ATC81	Additional vandal resistant PIR

Any PIR which has a normally open relay contact and can run off 12V can be used with the system.

Cables

CSS Part No.	Description
ATC13	15m camera extension (6pin Mini DIN male to female)
ATC14	25m camera extension (6pin Mini DIN male to female)
ATC15	50m camera extension (6pin Mini DIN male to female)
ATC31	15m camera cable with prepared end and 6pin Mini DIN male plug.
ATC43	100m cable drum (black). Ends are not prepared

OBSERVATION LOG BOOK

Installed By


.....

Date Commissioned

.....

User Set-up Log

TIMERS	TIME	FUNCTION	DAY (Mark with an 'x' as appropriate)						
			MON	TUE	WED	THU	FRI	SAT	SUN
1	:								
2	:								
3	:								
4	:								
5	:								
6	:								
7	:								
8	:								
9	:								
10	:								
11	:								
12	:								
13	:								
14	:								
15	:								
16	:								
17	:								
18	:								
19	:								
20	:								
21	:								
22	:								
23	:								
24	:								
25	:								
26	:								
27	:								
28	:								
29	:								
30	:								
31	:								
32	:								

LIGHTS	CAMERA (Mark with an 'x' as appropriate)								EXIT	LEVEL	
	1	2	3	4	5	6	7	8			
1											
2											
3											
4											
5											
6											
7											
8											

CAMERA										MODE							
CAM. NO.	NAME										DWELL	RELEASE	IN	OUT	24HR	CHIME	LIGHTS
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	

SCAN	SEQUENCE (Enter camera number(s) in the order you wish them to appear)																							
SCAN TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SCAN LIST A																								
SCAN LIST B																								
MANUAL SEQ.																								