



# Stand-Alone Keyboard Installation/Configuration Manual



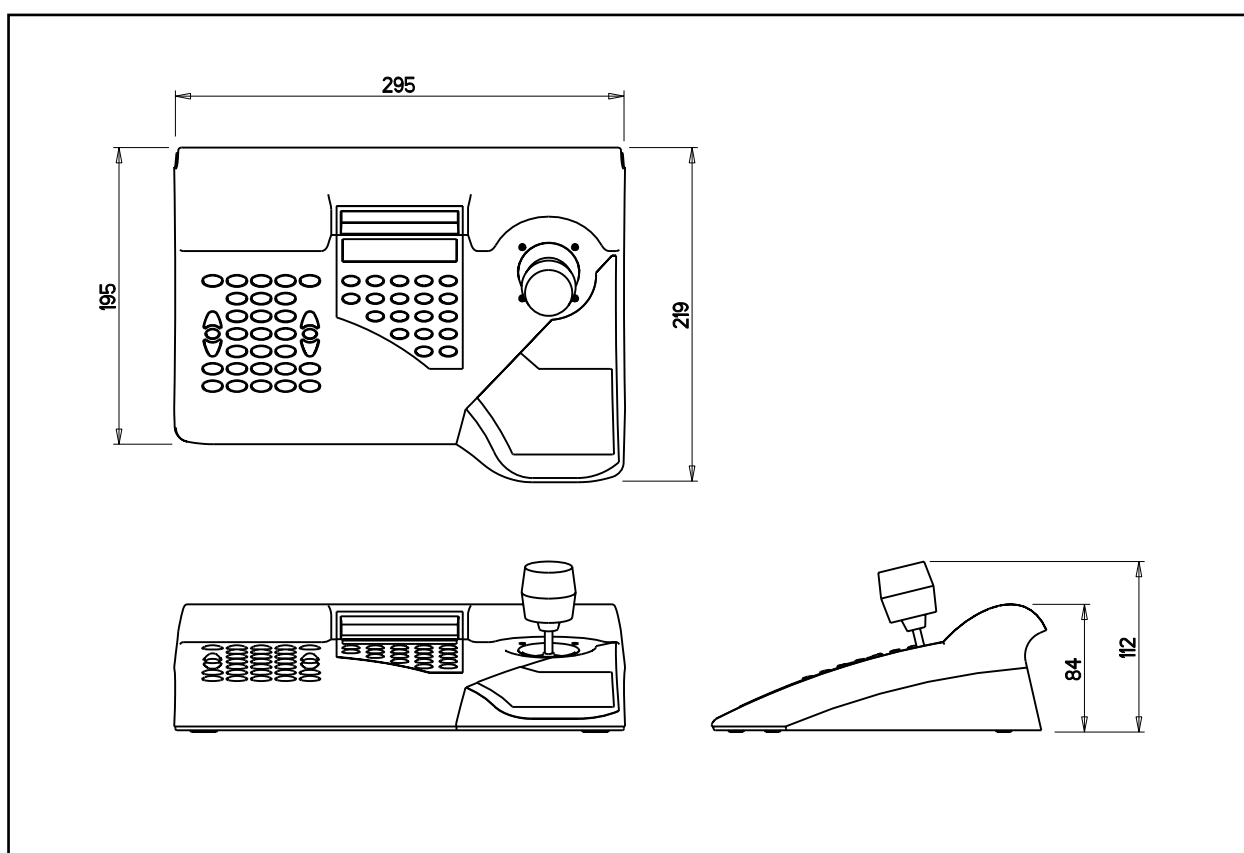
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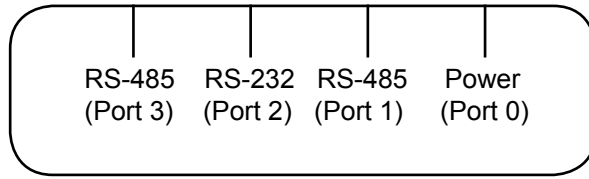
## 1 Safety and Precautions

1. Please read these notes before attempting to operate the 360 Vision Standalone Keyboard, and keep for future reference.
2. All servicing and repairs must be handled by 360 Vision Technology.
3. Installation should be carried out by suitably qualified personnel, in accordance with local codes of practice and regulations.
4. 360 Vision Technology Limited accept no liability for any damage caused by incorrect or improper installation.
5. Use only 360 Vision Keyboard power supplies.
6. Always ensure that this product is installed in a location that will not expose it to environmental conditions that are outside of its IP rating. This product is for indoor use only.

## 2 Dimensional Drawing

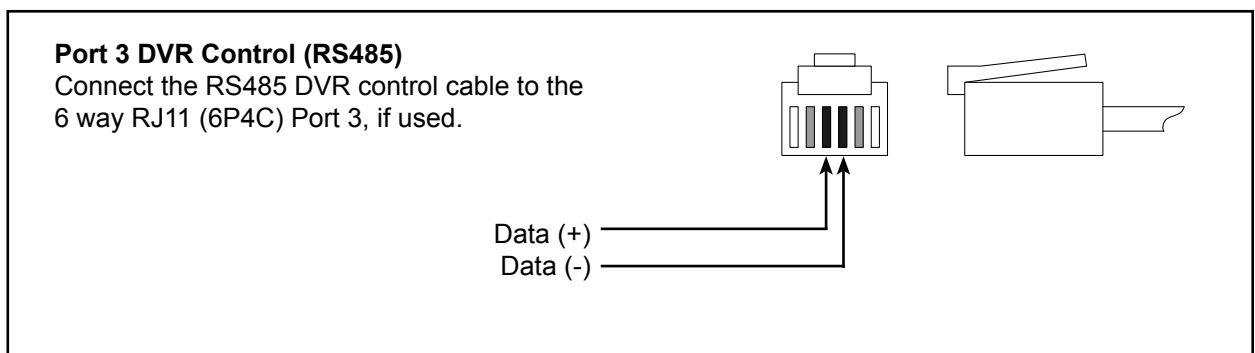
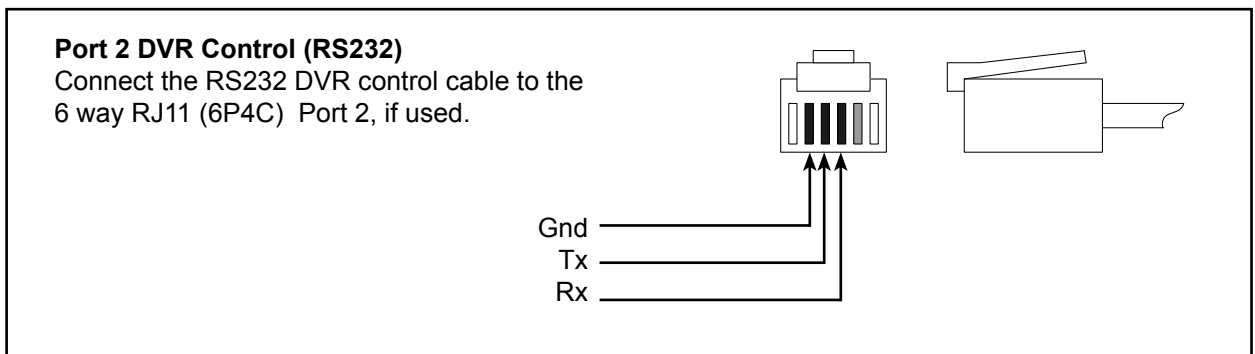
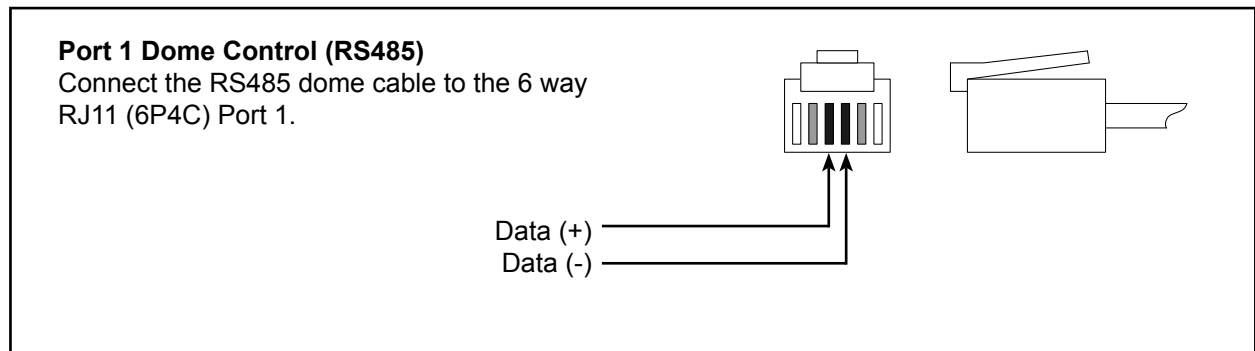
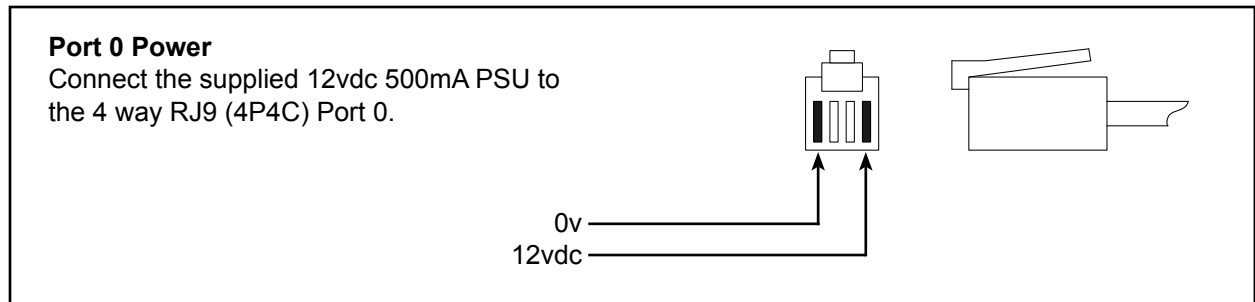


### 3 Connections



VKAVX0485-EU  
VisionKeyboard with LCD Display & DVR Control

All connections to keyboards, RS485 telemetry and power are made via RJ type connectors. The DVR can be controlled using RS232 or RS485 (depending on the DVR type). Connections shown below.



### 3.1 DVR connections

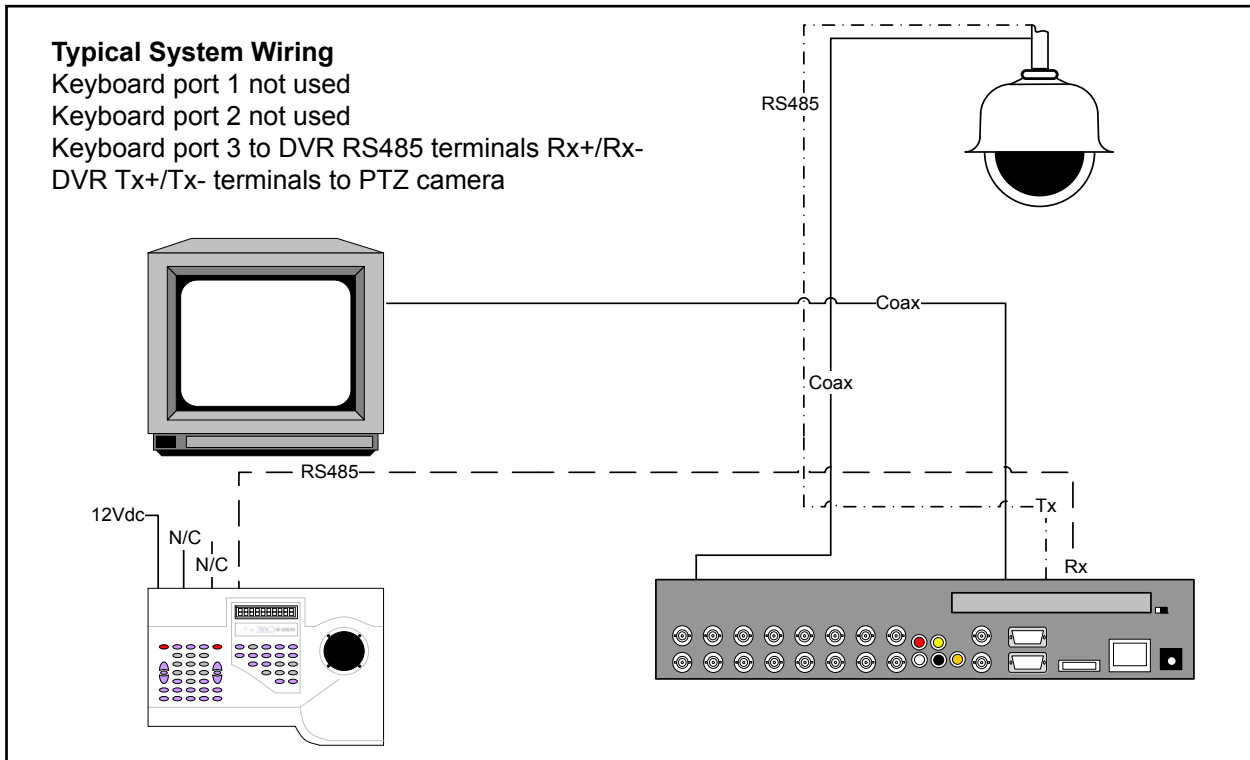


Diagram shows a typical installation with the 360 Vision Standalone keyboard controlling the 360 Vision H series DVR. The 360 Vision DVR will then have control of the PTZ camera. This allows local and remote PTZ control.

NB. 360 Vision Standalone keyboard will only control 360 Vision DVR's.

### 3.2 DVR Setup - H Series

Enter the settings menu of the Avalon H DVR and go into Serial Configuration page found in the Network column. In here set the RS485 settings to :-

Type - External Controller  
 Model - WTX1500/2000

Baud Rate - 9600bps  
 Date Bits - 8  
 Parity - None  
 Stop Bits - 1

DVR ID also needs to be changed to suit. e.g. DVR 1 is ID 1. DVR ID is found in the System Configuration menu which is in the System column of the DVR settings menu.


NB. PTZ cameras being controlled with 360 Standalone keyboard via the H series DVR must also run at 9600bps baud rate.

## 4 Keyboard Setup

### 4.1 Keyboard Modes

The VisionKeyboard operates in two modes:-



- StandAlone - Control of PTZ cameras.
- DVR - DVR control of 360 Vision DVR's.

To toggle between two modes use the  button.

STAND-ALONE:  
CAMERA 1




DVR:1 Avalon T 16ch  
Cameras: 1 - 16

### 4.2 Keyboard Lock

The VisionKeyboard can be locked/unlocked, press and hold  and then press 9, 3, 0, 3 and then release the  button to toggle lock. The display will then change from the below.

[Locked]

### 4.3 Keyboard Buzzer



To toggle operation of keyboard button press buzzer, press and hold  and then press  and then release the  button.

### 4.4 DVR setup

The 360 Standalone keyboard can be setup to control DVR's of different channel sizes, so that DVR operation is seamless. To enter keyboard DVR setup mode.

Select DVR mode by pressing , keyboard LCD will display.

DVR:1 Avalon T 16ch  
Cameras: 1 - 16

Then press and hold  and then press 5, 3, 2, 6 and then release the  button. The display will then change to the below. Use the joystick up and down to change the selected field, left and right to select another field.

DVR:1 Avalon T 16ch  
=====

Options are:-

DVR ID - 1 to 16.


DVR model - Avalon T (uses same protocol as Avalon H) or Avalon S.

DVR Channel - Choice of 16, 8 or 4ch DVR.

When the selected DVR changes are complete, use the joystick zoom in or out function to set and exit.

## 5 Stand-Alone mode - Camera Programming

### 5.1 Camera Select

To select a camera, press the camera number required using the grey number buttons and then the  button.

### 5.2 Pan/Tilt/Zoom Control

To operate the camera Pan, Tilt control use the joystick up, down, left, right operation. The joystick has proportional speed control of the camera, i.e. the more you move the joystick the faster the camera will move.

To operate the camera zoom, twist the joystick.

To zoom in, twist the joystick clockwise.

To zoom out, twist the joystick anti-clockwise.

### 5.3 Iris and Focus Control

Manual adjustments can be made to both Iris and Focus of the camera.

Close Iris



Focus Near



Auto Iris



Auto Focus



Open Iris



Focus Far



Take care storing presets when the camera is in manual iris/focus mode, as this may not suit all environments/time periods.

### 5.4 Auto-Flip

To spin the camera 180° use the  button.


360 Vision camera can also be configured to spin 180° automatically when using the tilt down function on the joystick.


Two options available are:


- Mode 1/Semi - When the 360 Vision camera has been fully tilted down, let go of the joystick and tilt down again, the camera will spin 180°.
- Mode 2/Full - When the 360 Vision camera has been fully tilted down, the camera will spin 180°.

### 5.5 Predator Auxiliary Functions

Aux modes can be used to activate the extra functions of the 360 Vision Predator.




Press  to toggle white light (if dark).

Press  to activate the wiper (double wipe).

Press and hold  to activate wash function.

### 5.6 Camera Auxiliary Functions

Aux modes can be used to activate extra functions on all 360 Vision cameras.




Press and hold  and then press  then release  to toggle colour/mono test function.

Press and hold  and then press  then release  to toggle colour/mono.

Press and hold  and then press  then release  to toggle fast shutter mode.

Take care using fast shutter mode, as this will disable the automatic colour/mono changeover process.

### 5.7 Camera Setup

To select camera setup mode, press and hold  and then press  and then release the  button.

Use the joystick tilt to navigate the functions available, use the joystick pan to change state of the highlighted function, zoom in to set.

LowLightMode :Off  
CAMERA1

Low Light mode options: Off/On

Fast shutter :Off  
CAMERA1

Fast Shutter options: Off/On

Auto flip :Off  
CAMERA1

Auto flip options: Off/On

Prop zoom :Off  
CAMERA 1

Proportional zoom options: Off/On

Digital zoom :Off  
CAMERA 1

Digital zoom options: Off/On

Frz presets :Off  
CAMERA 1

Freeze presets options: Off/On

White bal :Auto  
CAMERA 1

White balance options: Auto/Indoor/Outdoor/Extra 1, 2 & 3



Col/Mono lev :Light CAMERA 1
---------------------------------

Colour/mono level options: Light, Medium & Dark

Steady shot :On CAMERA 1
-----------------------------

Steady shot options: Off/On

WDR :Off CAMERA 1
----------------------



Wide Dynamic Range options: Off/On

AE Response :1 CAMERA 1
----------------------------



AE Response options: 1 -> 32



## 5.8 Home Function Setup

A home function is what the camera will do after a period of inactivity, this can be a preset position or a tour.



To setup a home preset, press and hold the  and then the  button. The LCD will then show the below.





Home position mode C:1 : d:000:00
--------------------------------------

Choose which preset is the home position by pressing the grey numeric buttons to suit the preset and then the  button, Enter the period of inactivity time period (must be  $\geq 10$  seconds) using the grey numeric buttons and then the  button.

To setup a home tour (preset tour 1 - 4, mimic tour 5 - 8), press and hold the  and then the  button. The LCD will then show the below.



Home position mode C:1 : d:000:00
--------------------------------------

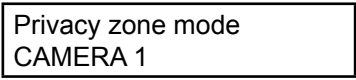
Choose which tour is the home position by pressing the grey numeric buttons to suit the tour and then the  button, enter the period of inactivity time period (must be  $\geq 10$  seconds) using the grey numeric buttons and then the  button.



To switch off home function, press and hold the  and then the  button. Enter a preset number using the grey numeric buttons and then the  button, and then enter a time period of zero and exit with the  button.

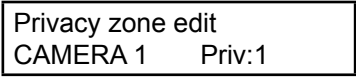
### 5.9 Creative Privacy Zones (Feature only available when using 360 Vision Cameras)

A creative privacy zone is a masked area of the scene used to obscure certain areas.

To set a privacy zone press and hold  and then press 4, 6, 7, 9 and then release the  button.





Using pan, tilt and zoom centre the camera view on the object to be obscured. Then press and hold  and then press a number button (range 1 to 32) to activate the privacy zone, release the  button.





A small privacy zone will appear in the centre of the screen, and the camera will zoom out. While the privacy zone is slightly transparent use the joystick pan and tilt to make the zone bigger to suit the area. To reduce the privacy zone pan and tilt while using zoom in.

Iris buttons can be used to set the transparency of the privacy zone, if required.



To set the privacy zone press the  button.

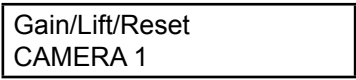
The keyboard will still be in the privacy zone mode, use this to set another privacy zone using the above process or press the  button to end setup.

To edit/delete a privacy zone, enter the keyboard privacy zone menu using the above method. Seek the privacy zone preset by pressing the number of the privacy zone (range 1 to 32) and then press the  button. Use the  button to switch the privacy zone off (delete) or back on, if required.

### 5.10 Gain & Lift control

Used to adjust the video level to suit the cable length used.

To adjust the gain & lift of the video signal, press and hold  and then press 5, 8, 5, 8 and then release the  button.







To manually adjust the gain use the iris control buttons, and the focus control buttons for the lift.



To exit gain & lift setup press  button.



### 5.11 Camera power reset

To power reset the camera (no settings will be lost).



Press and hold  and then press 5, 8, 5, 8 and then release the  button. Press and hold  button again and then press  button.

### 5.12 Camera factory reset



To factory reset the camera (all settings except protocol and RS485 ID will be lost).

Press and hold  and then press 3, 1, 1, 0 and then release the  button.

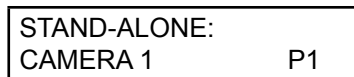
### 5.13 Joystick calibration

Camera 'creeping' can be caused by an out of calibration joystick. To calibrate the keyboard, press and hold  and then press 4, 4, 4, 4 and then release the  button.







### 5.14 Preset Define

To create a preset (Stored View), first move the camera to the desired location. Press and hold  and then press the grey numeric buttons to suit the preset and then release the  button.

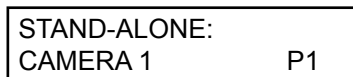
The LCD will show:





### 5.15 Preset Seek

To seek a preset (Stored View), press the grey numeric buttons to suit the preset and then the  button or use the quick preset 1 - 5 seek buttons      .

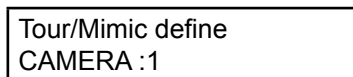
The LCD will show:



### 5.16 Preset Tour Define

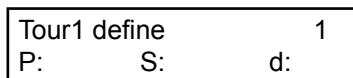
Press and hold  and then press  to enter tour setup.




The LCD will show:



Use the grey numeric buttons to select a tour to program, 1 - 4 are preset tours.



The LCD will show:



Using the grey numeric buttons input the start position preset and then the  button, use the grey numeric buttons to enter the speed (10 is slow to up 100 which is fast, use 0 for maximum speed) at which the camera will move to this position and then the  button, enter the delay of time in seconds using the grey numeric buttons and then the  button. Repeat the above sequence until the tour has been programmed.

To exit tour programming press and hold  and then press  to exit tour setup.

## 5.17 Mimic Tour Define

Press and hold  and then press  to enter tour setup.

The LCD will show:

Tour/Mimic define CAMERA :1
--------------------------------


Use the grey numeric buttons to select a tour to program, 5 - 8 are mimic tours.  
The LCD will show:

Mimic5 define Camera :1
----------------------------

Move the camera following the required mimic tour path, preset seeks can also be used as part of the mimic tour.

Once the tour is complete, exit tour programming press and hold  and then press .


## 5.18 Preset/Mimic Tour Recall

To activate a preset or mimic tour, press the grey numeric buttons to suit the tour and then press the  button.


Preset Tours are numbered 1 - 4.  
Mimic Tours are numbered 5 - 8.

## 6 DVR mode Keyboard Operation


### 6.1 Camera select

To select different cameras via the DVR, press the camera number required using the grey numeric buttons and then the  button. Choosing a camera higher than the current selected DVR will automatically select the correct video channel on the relevant DVR (keyboard needs to be configured the DVR size) e.g. Selecting ch17 will automatically select channel 1 on DVR 2, if DVR 1 is a 16 channel unit.



### 6.2 DVR select

To select different DVR units, press the DVR number using the grey numeric buttons and then the  button.

### 6.3 Multi-Screen display

Use the  button to toggle between all the multi-screen display options available.

### 6.4 PTZ control


To control a PTZ camera via the DVR, select the required camera (see 6.1) and then press the  button. This will allow the user to use the keyboard joystick to operate the PTZ camera. To exit PTZ mode press the  button.

DVR:1 Avalon T 16ch Cameras: 1 - 16 PTZ
--


### 6.5 Auto Sequence

To toggle the DVR auto sequence, press the  button.


## 6.6 Menu access

Use the  button to gain access to the DVR settings/menu. Use the joystick pan and tilt to navigate the menus while using zoom in to select.

## 6.7 Search screen access






Use the  button to access the DVR search options. Use the joystick pan and tilt to navigate and zoom in to select.

## 6.8 Emergency Record

To activate emergency record use the  button.

Take care using Emergency record as the HDD storage will be used up quickly and will reduce the amount of days that are stored.

## 6.9 Playback, Pause, Stop, Fast Forward, Rewind

Use play  button to start playback, and then use the standard fast forward , rewind , pause , and stop  buttons as required.

## 7 Warranty

This information and/or any technical information – whether received verbally or writing – is given in good faith but without warranty and this also applies where proprietary rights of third parties are involved. The information provided does not release you from your obligation to check its validity and to test the products suitability for the intended purpose(s) and use(s). The application, use and installation of the products either in isolation or in conjunction with other products used, provided and installed by you on the basis of the technical advice issued are beyond our control and therefore remain entirely your own responsibility.

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## 8 Notes

