360 Vision Technology

VisionKeyboard & VisionBMatrix Operator Guide

Matrix/DVR Keyboard
VKAVXBMM485 (Master), VKXBMM485 (Master), VKXBMS485 (Slave)

Vision BM Matrix Options

Non-cascading Matrix Options	**Cascading Matrix Options**
VM0032-04,	VM0064CT-12
VM0064-04	VM0064C-12
VM0064-12	VM0128C-12
	VM0192C-12
	VM0256C-12
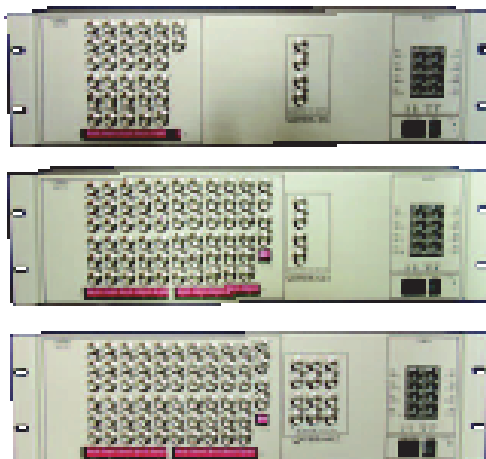
Table of Contents

1.   Safety and Regulatory Information

Important   All safety, installation and operational instructions should be read prior to installation and operation of this product.

Power   Only use the included power supply or manufacturers approved equivalent.

Servicing   Do not attempt to disassemble or service this product unless you are qualified and trained to do so. All servicing should be carried out by qualified and trained personnel.

Ventilation   Ensure that any ventilation slots in the product case are not covered or impeded in any way when the product is installed. Failure to observed ventilation precautions may lead to heat build up and premature failure of the product.

Location   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.
Never install products that are designed for indoor use only in any outdoor environment. This product is for indoor use only.

VKAVXBMM485 VisionKeyboard with LCD Display & DVR Control

2.　Keyboard unlock

When the VisionKeyboard is first turned ON, it must be unlocked before it can be used.
When the keyboard is locked, the LCD display will show:

```
M O N I T O R : 1     [ L O C K E D ]
C A M E R A : 1
```

To unlock the VisionKeyboard,

press and hold the 'lock'　⊶⦿　button

press '9', '3', '0', '3' and then release 'lock'　⊶⦿　button

To lock the VisionKeyboard to ensure that the Predators, Black Hawk Domes and VisionDomes are not moved, please follow the same procedure as described above for unlocking it.

3.　VisionKeyboard – Matrix mode selection
The VisionKeyboard operates in one of two modes.

'Matrix' mode is used for controlling the Predators, Black Hawk Domes and VisionDomes.
'Avalon DVR' mode is for controlling the DVR.

To toggle between the two modes press the 'DVR toggle'　(F2)　button

4.　Matrix Mode

In matrix mode, you only control the Predators, Black Hawk Domes and VisionDomes; and DVR buttons have no effect.

E.g. when in matrix mode, the LCD message shows:

```
M O N I T O R : 1                    *
C A M E R A : 1
```

The asterisk '*' on right side of the LCD display indicates that the VisionKeyboard is connected to the VisionBMatrix.

5.   Camera Select

To select a Camera, press the camera number followed by the camera select button e.g.

To select camera 2, press '2' followed by 'camera'   ⬚   button

The LCD will show:

```
M O N I T O R :  1                                    *
C A M E R A :  2
```

6.   Monitor Selection

It is possible to control any monitor from any of the VisionKeyboards that are connected to a VisionBMatrix matrix.
To select a monitor press the monitor number followed by the monitor select button e.g.: to select monitor 2,

press 2 followed by 'monitor'   ⬚   button

If monitor/keyboard display option is enabled, the bottom left of the monitor display shows the monitor number.

The LCD will show:

```
M O N I T O R :  2                                    *
C A M E R A :  1
```

7.   Monitor/Keyboard Display

If the VisionBMatrix has been configured to show 'Monitor/Keyboard Display' then it will be shown at the bottom of the monitor screen as: 'M' followed by a number to say which monitor is being looked at;

e.g.

M01 indicates that the monitor is number 1.

M03 indicates that the monitor is number 3.

8.   Pan Control

To pan the Predator, Black Hawk Dome or VisionDome (360° continuous rotation) move the joystick either to the left or right. The joystick gives proportional control, the Predator, Black Hawk Dome or VisionDome will pan faster or slower dependant on how far the joystick is moved.

9. Tilt Control

To tilt the Predator, Black Hawk Dome or VisionDome through 90º (complete vertical tilt down) move the joystick either up or down. As with the Pan, the joystick is a proportionally controlled device and therefore the Predator, Black Hawk Dome or VisionDome will tilt faster or slower dependant on how far the joystick is moved.

The Predator, Black Hawk Dome or VisionDome can be tilted through 90º between horizontal (tilt up) and vertical (tilt down).

See also section 16 – auto-flip using joystick.

10. Zoom Control

The zoom control is also an integral part of the joystick.

> **To zoom in** closer to a viewed object, twist the joystick clockwise.
> **To zoom out** away from the viewed object, twist the joystick anti-clockwise.

Throughout the zoom, the camera will remain in automatic focus.

11. Iris and Focus adjustments

Manual adjustments can be made to both the Iris and Focus of the Predator, Black Hawk Dome or VisionDome using the VisionKeyboard. Any adjustments made will be over-ridden if the joystick is moved unless the position is stored as a preset as described in section 13.

⊗	IRIS CLOSE	⤙	FOCUS NEAR
⊖	AUTO IRIS	⬳	AUTO FOCUS
⊛	IRIS OPEN	⤛	FOCUS FAR

To manually adjust the Iris, press either the Iris open or Iris close buttons
Pressing the centre button return the camera to 'Auto' Iris mode.

To manually adjust the Focus, press either the Focus Near or Focus Far buttons
Pressing the centre button will return the camera to 'Auto' Focus mode.
.

12. Auto-Sequence

Auto sequences are set up using the menus (see section 24). There are four auto sequences available.

To start an auto-sequence

Press number buttons (1, 2, 3 or 4)

Followed by the 'auto-sequence' ⟨button icon⟩ button

To pause an auto-sequence

Press 'auto-sequence' ⟨button icon⟩ button.

The display will show `S1" 002` indicating that the sequence is paused.

To resume a paused auto-sequence

Press 'auto-sequence' ⟨button icon⟩ button.

The sequence will resume the paused sequence.

To stop an auto-sequence

Use the joystick to pan tilt or zoom to stop the auto sequence.

Auto-sequence/Camera number display

If the VisionBMatrix is configured to show camera numbers, the numbers will be preceded by S1 if sequence 1 is running. (Similarly for the other sequences S2, S3 and S4). When the auto-sequence is paused a pause symbol appears after the 'S1'. When the camera is switching to the next one in the sequence an arrow will appear '->' and the camera title shows the title for the next camera.

13. Preset Setting & Selection

To create a preset (Stored View), first move the Predator, Black Hawk Dome or VisionDome to the desired view for storing,

press and hold the 'preset'   button

and whilst holding, select the required number using the grey numeric buttons – e.g. 3

release the 'preset'   button

The LCD will show:

```
M O N I T O R : 1                           *
C A M E R A : 2        P r e : 3
```

Continue the above process until all required presets are stored. A maximum of 360 presets can be stored in each Predator, Black Hawk Dome or VisionDome unit. Presets can be allocated from 1 to 360. (Preset 0 is not acceptable.)

14. Preset Selection - preset seek

To seek a stored preset, either:

Press the applicable numbers from the numeric keypad,

followed by the 'preset'   button

or if the preset required is between 1 and 5, press any of the 'quick preset' buttons

The LCD will show:

```
M O N I T O R : 1                           *
C A M E R A : 2        P r e : 3
```

15. AutoFlip using auto-flip button

To automatically move the Predator, Black Hawk Dome or VisionDome through 180º:

press the 'AutoFlip'   button

The Predator, Black Hawk Dome or VisionDome will pan through 180º

16.   AutoFlip using joystick

The Predator, Black Hawk Dome or VisionDome auto-flip feature can be programmed to have 'auto-flip-OFF', 'auto-flip-ON' or 'semi-auto-flip-ON'. See section 31.

Mode 0 - Auto-flip OFF. When the Predator, Black Hawk Dome or VisionDome is tilted fully down it will stop.

Mode 1 Semi-auto-flip-ON. When the Predator, Black Hawk Dome or VisionDome has tilted fully down momentarily release the joystick, then move it down again and it will automatically flip through 180º

Mode 2 Auto-flip-ON. When the Predator, Black Hawk Dome or VisionDome has tilted fully down momentarily it will automatically flip through 180º

17.   Aux Modes (Night-time, Wipe and Wash)

Aux modes (without 'LOCK' button pressed) are used to: activate 'night time mode', 'wipe-once', washers start/stop.

Aux modes used with 'LOCK' button, (toggle colour/mono, select mono, toggle fast shutter) are described in section 18.

If the 'LOCK' button is NOT pressed, 'A1', 'A2' and 'A3' control the following three Predator functions:

Toggle White light mode (Used with Predators that are fitted with white-lights)

A1   'A1' toggles white light ON (if is dark) and white lights OFF.

Wipe-twice (Used with Predators that are fitted with wipers)

A2   Press 'A2' to activate the wipe-twice feature. The wiper will perform two wipes and then stop.

If the Predator does not have a wiper, pressing 'A2' will have no effect.

Start/stop washer (Used with Predators that are fitted with washers)

A3   Press and hold 'A3' to move the camera to the wash position and turn ON the washer pump. When 'A3' is released the washer pump is turned OFF and the camera will pan and tilt and return to showing the previous view.

18. Aux Modes (Toggle colour/mono, Select mono and Toggle fast shutter)

Aux modes used with 'LOCK' button are used to activate toggle colour/mono, select mono and toggle fast shutter.

Press and hold   **━O**   ('Lock' key)

and with the lock key still held down press one of the following keys ('A1', 'A2' or 'A3'):

Toggle colour/mono

A1

The camera changes from Colour to Mono

The LCD will show:

```
M A T R I X                    *
M O N O      : 1
```

if the light level is still sufficient for colour pictures, then the Predator, Black Hawk Dome or VisionDome will automatically return to Colour after about 6 seconds.
The LCD will show:

```
M A T R I X                    *
C A M E R A : 1
```

Otherwise it will remain in Mono.

Select mono

A2

The camera changes from Colour to Mono.
The LCD will show:

```
M A T R I X                    *
M O N O      : 1
```

The camera stays in Mono until 'A2' is pressed again.

Toggle fast shutter

A3

The camera changes to 'fast shutter mode'. If it is already in 'fast shutter mode' then it will change to 'normal shutter mode'.

The LCD will show:

```
M A T R I X                    *
C A M E R A : 1
```

When 'fast shutter mode' is ON, the effective light reaching the camera's sensor is reduced. The consequence of this is that if the view is not very bright, the picture can appear 'grainy' due to the camera's gain being turned up to compensate for the fast shutter.

Fast shutter mode is typically used with 'auto number plate recognition' systems, and can give clearer images when replaying recorded images of moving objects.

N.B. Auto colour/mono changeover is disabled when fast shutter is used.

19.   Tour and Mimic Modes

Each Predator, Black Hawk Dome or VisionDome is capable of up to 8 individual Tours – Tours 1 to 4 are programmable by Preset, Speed and Dwell time and Tours 5 to 8 are 'Mimic' programmable Tours. The presets, tours and mimics are stored in the Predator, Black Hawk Dome or VisionDome memory.

When a tour of presets is started the Predator, Black Hawk Dome or VisionDome will move through all presets at the defined speed and dwell time that were stored. When a mimic is started, the Predator, Black Hawk Dome or VisionDome will perform all the actions which were defined when the mimic was programmed. The tour or mimic will repeat continuously until manually interrupted either by an alarm or user intervention.

To start a particular tour or mimic

press the number of the tour followed by the 'Tour' Key

E.g. for Tour 3: Press '3' followed by the 'tour'   button

The selected tour or mimic will start from the beginning.

To stop a tour or mimic

press the 'tour'   button

The tour or mimic will stop at the current position,

To resume a tour or mimic

press the 'Tour'   button

The tour or mimic that has previously been stopped will resume from the position in the tour or mimic that had been reached when it was stopped.

If a tour has been defined as a 'home tour' then it will automatically start after a defined period of inactivity.

To program or redefine a tour of presets or mimic tour.

Use the camera set-up menu (see section 29 and 30) to set up preset-tours and mimic-tours.

20. Button Beep ON/OFF

The Buttons on the keyboard make an audible beep when pressed.

To turn the button beep ON or OFF:

Press and hold 'lock' ⊸o   button

Press and release the 'alarm' ⌀   button

Release the 'lock' ⊸o   button.

21. Operator Alarm

To activate a manual alarm when no external alarms are active.

Press and release the 'alarm' ⌀   button

If there is an alarm card address 01 connected to RS485 control cable then when an alarm or operator alarm is active, the relay on the alarm card will be ON. The relay can be used to initiate a connection to a remote site using a video transmission system, or to switch a DVR or multiplexer to alarm mode.

```
02/Jul/06  11:13:57
001




M01    MANUAL  ALARM
```

The VisionBMatrix can be set to temporarily disable alarm inputs when the operator alarm is ON. This is useful when a VisionBMatrix is installed on an unmanned site. An intruder activates a remote alarm which an automatic video connection to a 'central station'. The operator at the central station can use the alarm button to cancel the active alarms and then activate the operator alarm feature. The operator can take control of the VisionBMatrix for surveillance of the site without the risk of subsequent alarms (e.g. the police or a guard arriving on the remote site) causing camera or preset switching, which would interrupt the surveillance of the intruders.

22.   Alarm Buzzer ON/OFF

When alarms are active, the alarm buzzer sounds. It can be silenced:

Press and release 'alarm'   ⬯   button

23.   Alarm acknowledgement

When the alarm buzzer has been silenced, a further press of the alarm button will cancel the alarm. If another alarm (or alarm timer) is still active, the alarm buzzer will sound again. The next press of the alarm button will silence the buzzer and the next press of the alarm button will cancel the alarm. The VisionBMatrix will continue to respond to any new alarm activations that occur.

24.   Matrix Settings

Programming

All programming of the VisionBMatrix is performed from the VisionKeyboard in conjunction with on screen menus.

Before entering the menus ensure that video is present into the matrix and at least one VisionKeyboard is connected.

25.   Menu Access

Operator Access

To obtain operator level access press and hold 'lock'   ⊶0   button

then press '3', '6', '0'

```
02/Jul/06  11:13:57
001


            Main  Menu

Auto  sequence  setup
Camera  Setup




      PAN/TILT:Navigate
    ZOOM:IN=Sel:OUT=Back




M01
```

26. Navigating the menus

To move through the menus, use the Joystick to move up and down to the required menu setting and to enter a sub menu. Twist joystick clockwise to select it.

At any time and in any menu, twisting the Joystick anti-clockwise will exit you from the current menu screen.

If the Joystick is twisted anti-clockwise on the above main screen, all changes will be saved to the VisionBMatrix memory.

If the menu goes to timeout (after 1 minute) the changes are also saved.

Scrolling lists : where menu lists contain more than 8 items (alarms, cameras etc), scroll arrows are provided in the left hand column to indicate that there is more data either above or below the current viewed items.

An information box is also displayed under the menu area to describe navigation options.

27. Auto-Sequence Setup

From the Main Menu, use the joystick, move up or down until 'Auto Sequence Setup' is highlighted

Twist the Joystick clockwise to enter

```
02/Jul/06  11:13:57
001

              Autoseq  1  (SEQ  to  change)

       STEP  ON/OFF    CAM  DWELL   PRESET

          1    ON          1      2        0
          2    ON          1      2        0
          3    ON          1      2        0
          4    ON          1      2        0
          5    ON          1      2        0
          6    ON          1      2        0
          7    ON          1      2        0
          8    ON          1      2        0
          9    ON          1      2        0
         10    ON          1      2        0

              PAN/TILT:Navigate
              ZOOM:IN=Sel:OUT=Back

M01
```

There are 4 auto-sequence memories available. Providing 4 separate auto-sequences allows the operator to be able to have perhaps an auto-sequence for day use, one for night use and one for weekends and/or public holidays.

To select the next auto-sequence

Press the 'auto-sequence'   button

Each press of the auto-sequence button will select the next auto-sequence.

An auto-sequence consists of :-

Step	Order in which the next camera will display
On/Off	Toggle to allow inclusion or exclusion of that particular step. If a particular step is set to OFF, this step is skipped and the sequence will continue to the next step.
Cam	Camera number to which it refers to (does not need to be numerically sorted and can contain repeated cameras)
Dwell	The time in seconds that the current step will be displayed
Preset	The specific preset the operator would like to see from that specific camera when cycled to that step.

If a particular camera will be in a tour, specify preset 0 so that the tour will not be stopped when it is selected during the auto-sequence.

Using the Joystick, move left and right within each Step and twist joystick clockwise to toggle between options

For numerical changes, use the VisionBMatrix numeric buttons.

For example: To change from Camera 1 in Step 1 to Camera 2,
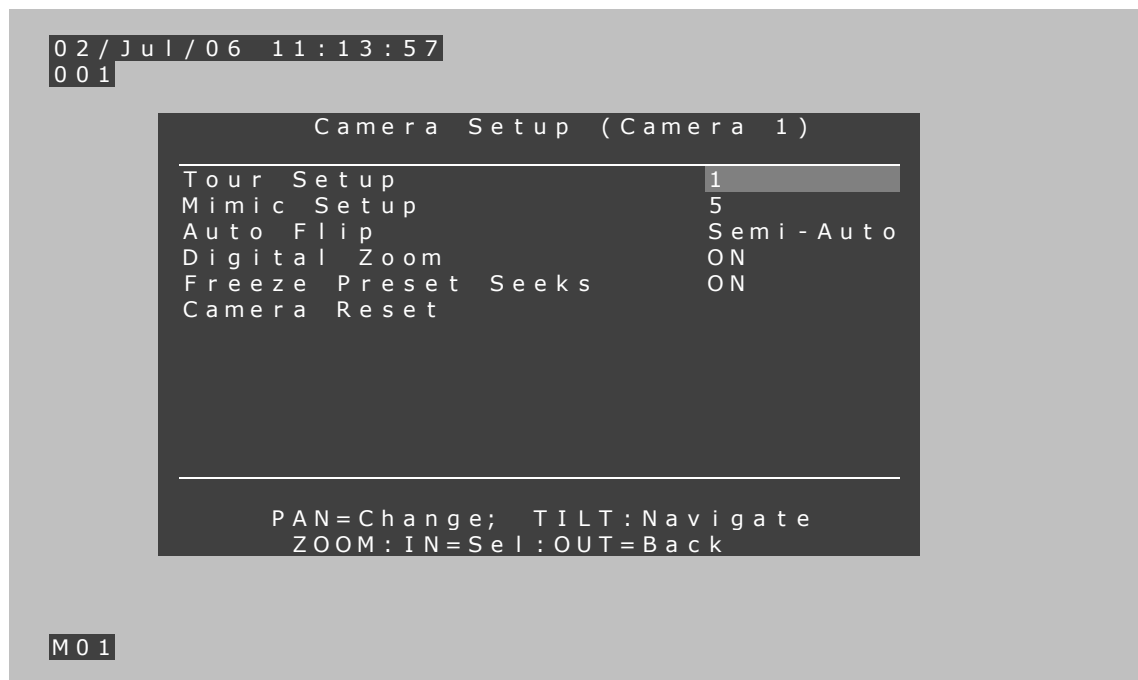
Move the Joystick right until Cam 1 is highlighted, and press '2'

If the Step is Toggled 'Off', then the Step is not deleted, it is simply omitted from that sequence until Toggled back to 'On' – this is useful if perhaps maintenance is being carried out on a particular camera and a blank or unusual view is undesirable.

To Save Changes and Exit, twist joystick anti-clockwise.

28.   Camera Setup

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. The 'Setup Menu for Camera 1' will appear.

```
0 2 / J u l / 0 6   1 1 : 1 3 : 5 7
0 0 1

                Camera  Setup  (Camera  1)

       Tour  Setup                    1
       Mimic  Setup                   5
       Auto  Flip                     Semi-Auto
       Digital  Zoom                  ON
       Freeze  Preset  Seeks          ON
       Camera  Reset



       _____

          PAN=Change;  TILT:Navigate
           ZOOM:IN=Sel:OUT=Back

M 0 1
```

The camera number can be selected by

Press and hold 'camera'   [⬛] button

Enter the camera number

Release the 'camera'   [⬛] button.

Alternatively, press and release the 'camera'   [⬛] button
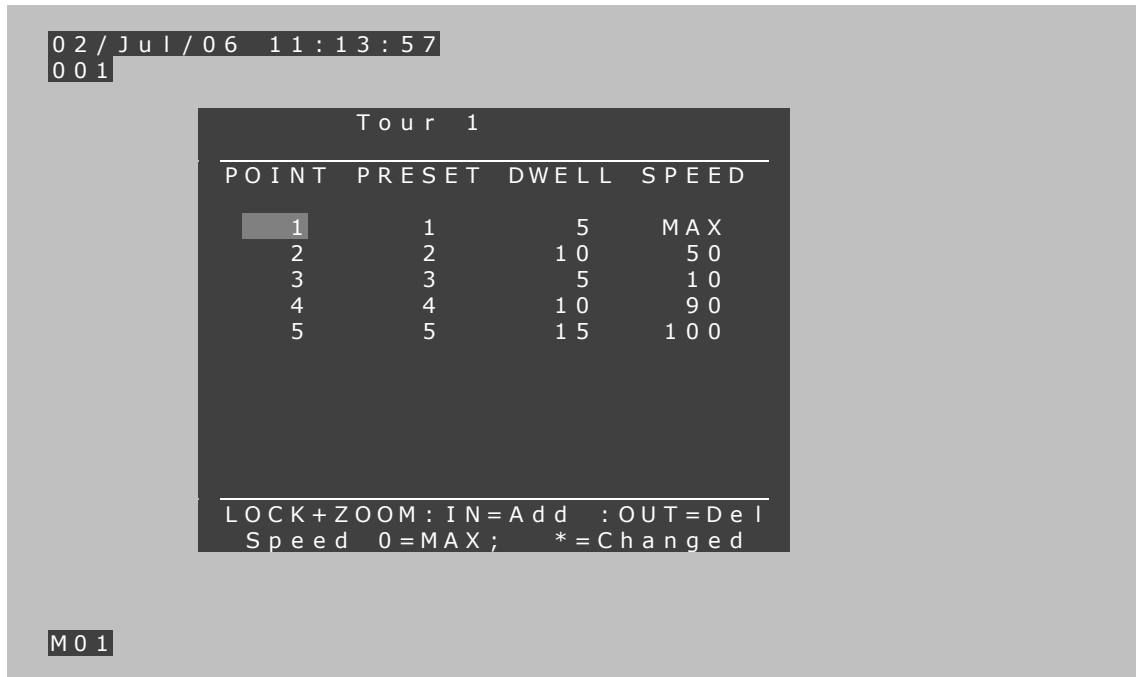
to select the next camera.

In some applications it is not possible for the Predator, Black Hawk Dome or VisionDome to send the data back to the VisionBMatrix. Under these circumstances the parameter will be shown in the menu as --- or <->. When these parameters are adjusted, the appropriate commands are sent to the Predator, Black Hawk Dome or VisionDome but the menu will not be updated with the data from the Predator, Black Hawk Dome or VisionDome.

29.   Tour Set-Up

A maximum of 4 individual preset based tours can be stored and recalled and each tour can contain up to 360 Presets.
Tours 1 – 4 are dedicated to preset based tours which are programmable by Preset, Speed and Dwell time.

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Tour Setup' is highlighted. Twist the joystick clockwise to select it. The 'Edit Tour 1' menu will appear.

```
02/Jul/06  11:13:57
001

               Tour  1
    _____
    POINT  PRESET  DWELL  SPEED

         1         1         5        MAX
         2         2        10         50
         3         3         5         10
         4         4        10         90
         5         5        15        100




    _____
    LOCK+ZOOM:IN=Add  :OUT=Del
     Speed  0=MAX;    *=Changed



M01
```

Tours 1-4 are preset based tours. The presets must have previously been programmed into the Predator, Black Hawk Dome or VisionDome for the tour to work.

To change the number of the tour that you are programming press the 'tour'   ⊚   button

until the correct tour number is displayed.

To program a preset based tour follow the procedure below:

- Begin at point 1
- Enter the number of the preset to be recalled
- Enter the dwell time – this is the time that the Predator, Black Hawk Dome or VisionDome will wait at the specified preset before moving to the next preset
- Enter the speed – this is the speed that the Predator, Black Hawk Dome or VisionDome will travel from the preset in this step to the next preset in the tour in the range 1 to 100 degrees / second. Entering '0' will send the Predator, Black Hawk Dome or VisionDome to the next preset at maximum speed.
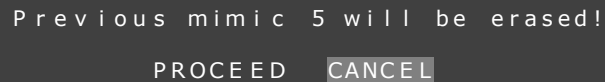
To modify an existing preset based tour simply select the step that you wish to modify, make the modification and continue until all necessary modifications are complete.

30.   Mimic Tour Programming

Tours 5 – 8 are mimic based tours where the Predator, Black Hawk Dome or VisionDome is placed into a special mode where it remembers all operator action (i.e. pan, tilt, zoom, preset seeks) for up to 30 minutes per tour; It is not possible to define presets or use iris or focus buttons during a mimic tour.

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Mimic Setup' is highlighted. Twist the joystick clockwise to select it. The 'Press LOCK to begin learning tour 5' menu will appear.
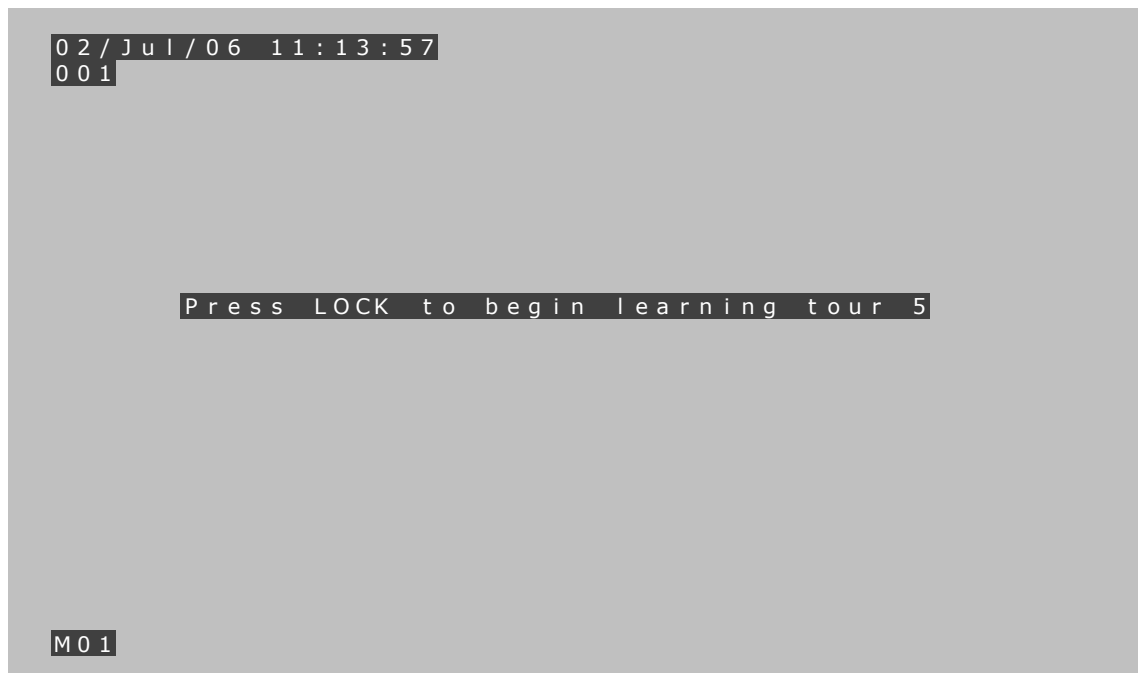
The 'Previous mimic 5 will be erased' menu will appear.

```
 P r e v i o u s   m i m i c   5   w i l l   b e   e r a s e d !

          P R O C E E D      CANCEL
```

Move the joystick left to erase old mimic 5 and twist the joystick clockwise.

The following display will appear.
To select a particular mimic:

```
02/Jul/06  11:13:57
001




          Press  LOCK  to  begin  learning  tour  5







M01
```

Use Joystick to move the Predator, Black Hawk Dome or VisionDome to the start position.

To start learning the mimic, press and release the 'lock' ⊷0 button.

```
02/Jul/06  11:13:57
001



                    Use  PTZ;  LOCK  to  finish






M01
```
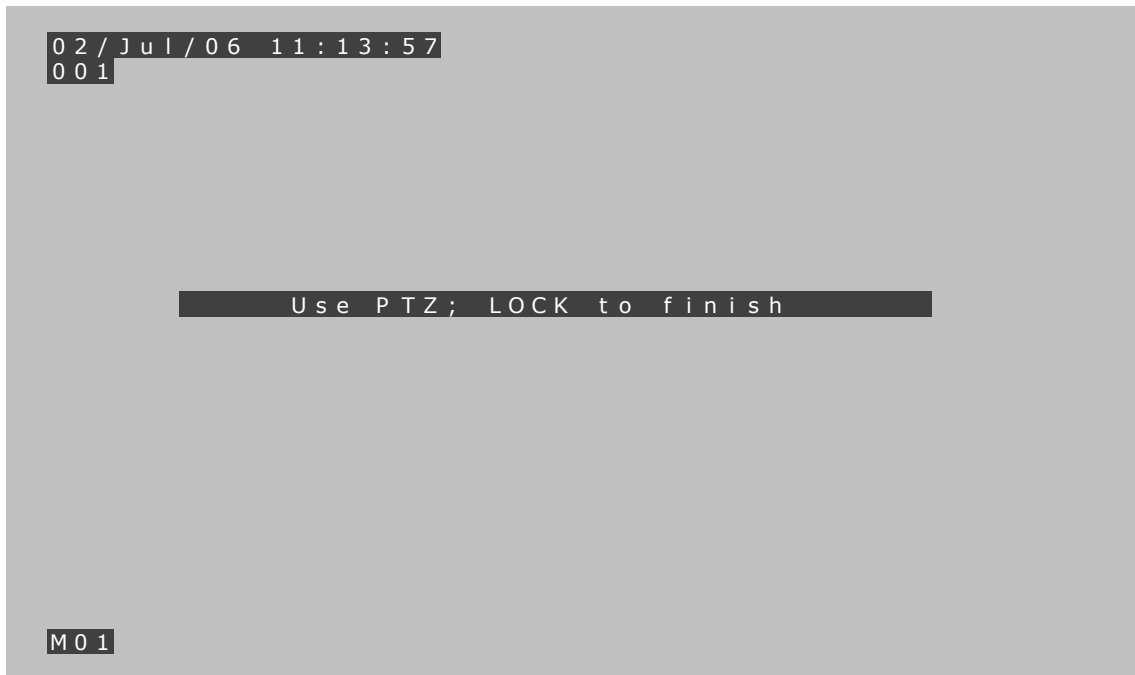
If there is no activity for 1 minute, the menu will time out and learning the mimic tour will end.

When finished press 'lock' button   ⊶o

Twist joystick anti-clockwise to exit from the menu.

31. Auto Flip

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Auto Flip' is highlighted.

Twist the joystick clockwise to change the setting.

Auto Flip which makes the camera automatically pan 180 degrees when the camera tilts down as far as it will go. Each camera can be set to one of the following auto flip modes.

Auto Flip OFF
When the camera is tilting down it will not auto flip.

Auto Flip mode 1 (Full Auto)
When the camera is tilting down and reaches the vertical position, a 180 degree auto flip will occur automatically.

Auto Flip mode 2 (semi auto)
When the camera is tilting down and reaches the vertical position it will stop. If the joystick is released and then moved down the camera will perform 180 degree auto flip.

Twist joystick anti-clockwise to exit from the menu.

32.   Digital Zoom

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Digital Zoom' is highlighted.

Twist the joystick clockwise to change the setting.

When digital zoom is turned OFF, and the joystick is twisted clockwise to zoom IN, the picture will stop zooming when the lens reaches maximum optical zoom.

When digital zoom is turned ON, the picture will stop zooming when it reaches maximum optical zoom, but if the joystick is released and then twisted clockwise again, the picture will zoom in again using the 8x digital zoom feature.

When a picture is zoomed digitally, the magnification increases but the resolution or picture quality reduces.

Twist joystick anti-clockwise to exit from the menu.

33.   Freeze Preset Seeks

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Freeze Preset Seeks' is highlighted.

Twist the joystick clockwise to change the setting.

When this option is turned ON, the Predator, Black Hawk Dome or VisionDome will freeze the current picture when seeking presets at the maximum speed. The picture will appear to switch from one picture to another without displaying the intermediate moving picture. This is less distracting for an operator especially when reviewing digital video recordings.

Freeze preset seeks gives several advantages:

DVR
If the picture is being recorded using a DVR the spoiled moving pictures are not recorded making searches easier and also reduces the required storage;

Transmission systems
If a transmission system is being used, the moving picture does not get displayed and is not transmitted, resulting in the new picture being transmitted without having to wait for the transmission of the moving picture to complete. Effectively giving a faster response to preset seeks.

34. Camera Reset

This will reset the Predator, Black Hawk Dome or VisionDome in the same way as when it is switched OFF and then ON. The picture will be lost while the Predator, Black Hawk Dome or VisionDome re-initialises. All the stored presets, tours, mimics etc are preserved.

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. Move the joystick down until 'Camera Reset' is highlighted. Twist joystick clockwise to select it.

The 'reset this camera?' menu will appear with the 'NO' option highlighted.

```
02/Jul/06  11:13:57
001




                Reset  this  camera?
                    YES    NO




M01
```

To abandon the reset, twist the joystick clockwise to select 'NO'.
To reset the camera move the joystick to the left to highlight 'YES' then twist the joystick clockwise to select it.

The complete camera reset cycle takes less than one minute, during which time the picture will be lost, then replaced by a blank picture, the Predator, Black Hawk Dome or VisionDome will initialise the pan and tilt motors, the picture will return and the camera will return to the view that was being shown before the reset occurred.
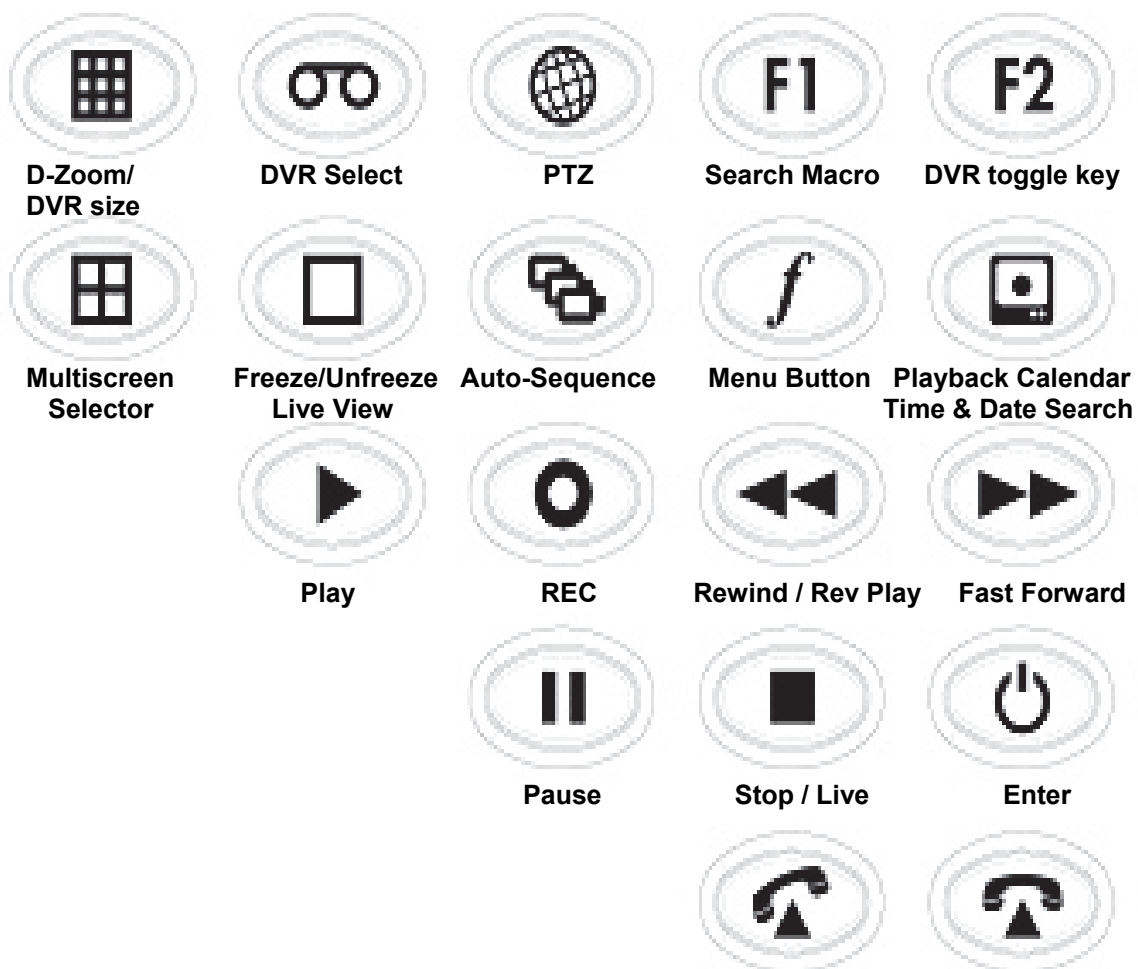

35. Exiting Menus

After all menus and options have been selected, twist the joystick anti-clockwise to EXIT. If this results in another menu, twist the joystick anti-clockwise again.

If this is not done, then the menu screen will timeout (after 1 minute). All settings that have been changed will be saved.

36. DVR buttons on the VisionKeyboard VKXM0485-EU

D-Zoom/ DVR size	DVR Select	PTZ	Search Macro	DVR toggle key

Multiscreen Selector	Freeze/Unfreeze Live View	Auto-Sequence	Menu Button	Playback Calendar Time & Date Search

Play	REC	Rewind / Rev Play	Fast Forward

Pause	Stop / Live	Enter

37. DVR mode and Matrix Mode

The VisionKeyboard can be set to be in one of the two modes. The first line of the LCD display shows what mode is currently selected.

To change the mode, press the 'DVR toggle' **F2** button to toggle between the two modes.

38.   DVR Live Mode/ Record Mode

When the VisionKeyboard is in DVR mode the LCD display will look like this:

D	V	R	:	1		A	v	a	l	o	n		T		1	6	c	h
C	a	m	e	r	a	s	:	1	-	1	6							

The LCD will also indicate PAUSE mode and PTZ mode.

The second line of the LCD display shows the cameras that are available on this DVR.

To select a DVR, (select DVR mode – see section 37)

press number buttons, followed by ⊙⊙ button.

To select a DVR camera, (select DVR mode – see section 37)

press number buttons, followed by ▭◗ button.

The camera address can be selected in the range 1 to 240, but cannot not be set greater than the number of cameras that are connected.

E.g.
To select a DVR camera 17, (select DVR mode – see section 37)

press '1', '7', followed by ▭◗ button.

This will select camera 1 on DVR 2. The LCD second line will look like this (Assuming that for this example, the DVR1 is a 16 way unit):

D	V	R	:	2		A	v	a	l	o	n		T		1	6	c	h
C	a	m	e	r	a	s	:	1	7	-	3	2						

Playback mode functions, (select DVR mode – see section 37)

The joystick can be used to select various functions.

	Joystick	Function	Equivalent DVR function
1	Right	Fast-forward	Shuttle right on Avalon 2U
2	Left	Rewind	Shuttle left on Avalon 2U
3	Up	Previous frame	Jog left on Avalon 2U
4	Down	Next frame	Jog right on Avalon 2U
5	Zoom Inx2	Menu Ch (can no.)	Right click on mouse
6	Zoom Out	Takes DVR out of playback mode	'X' on taskbar

39. DVR PTZ mode using RS485 commands from the DVR

PTZ mode is used for control of the PTZ cameras using commands from the DVR. The selected cameras must use a single protocol (e.g. 360, Pelco etc.) as set up in the DVR.

The DVR must be set to full screen. PTZ is not available when the DVR is set to multi-screen,

To select PTZ mode

 'Standalone' mode is used for controlling the Predators, Black Hawk Domes and VisionDomes.
'Avalon DVR' mode is for controlling the DVR.

To select PTZ mode, press the   button

PTZ functions

Whilst PTZ mode is selected, define and seek presets are available to use. Use the same button presses as is described above for 'standalone' mode.

40. Playback of recordings

There are 2 ways to playback recorded information

41. General Playback

To replay the last recorded image

 Press the play   button

Subsequent presses of the rewind   or forward   buttons will allow fast or very fast rewind or forward.

To pause an image press the pause   button during playback,

and using the rewind   and forward   buttons

Images playback one frame at a time.

To exit playback, press stop   button

42. Selecting camera while in playback mode

When in playback mode, it is necessary to select pause before the new camera is selected.

Press and release the   button

43. DVR Search mode

The DVR Search mode can be used when in DVR mode.

To use DVR search mode, press and release   ▶   the button

Press and release   button to select search menu.

An on-screen menu will appear allowing the operator to be able to select:-

> Express Search
> Event Search
> Jump To First Saved Data
> Jump To Last Saved Data
> Daylight Saving Search

Use the joystick to move up and down and press enter   or 'ZOOM IN' on the joystick to view the recordings.

44. DVR MENU mode

The DVR MENU mode can be used when in DVR mode.

To select DVR MENU mode, press and release the   *f*   button

Move joystick down to highlight the 'Password' box.

'ZOOM IN' to select 'Number Pad'.
Use the joystick to highlight the digits for the password and

'ZOOM IN' or press   button for each digit.

45. To exit from the menus

To come out of any menu setting, press the menu   *f*   button

46. Warranty

This information and/or any technical information - whether received verbally or in 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 or installed by you on the basis of the technical advice issued are beyond our control and therefore remain entirely your own responsibility.