360 Vision Technology

VisionKeyboard & VisionBMatrix Controller Manual

THIS CONTROLLER GUIDE IS TO BE READ IN CONJUCTION WITH THE OPERATOR'S MANUAL
(VisionKeyboard & VisionBMatrix Operator's Manual V2-00)

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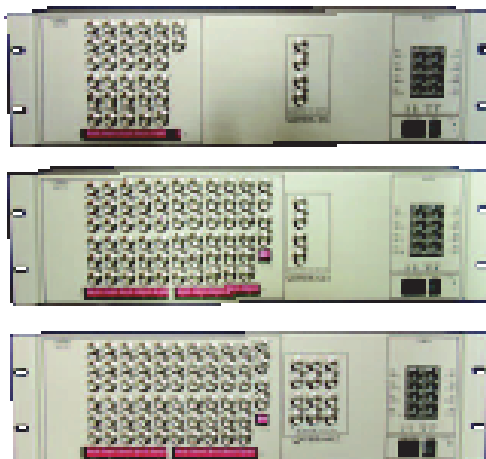**VKAVXBMM485 (Master), VKXBMM485 (Master), VKXBMS485 (Slave)**

Vision BM Matrix Options

Non-cascading Matrix Options

VM0032-04,
VM0064-04
VM0064-12

Cascading Matrix Options

VM0064CT-12
VM0064C-12
VM0128C-12
VM0192C-12
VM0256C-12

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1.   Matrix Settings

Programming

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

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

2.   Menu Access

Controller Access

To obtain controller level access press and hold 'lock' ⊸0 then '1', '3', '7', '9'

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


              Main  Menu

    Set  Date/Time
    Auto  sequence  setup
    Camera  Setup
    Settings  &  Preferences



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




M01
```
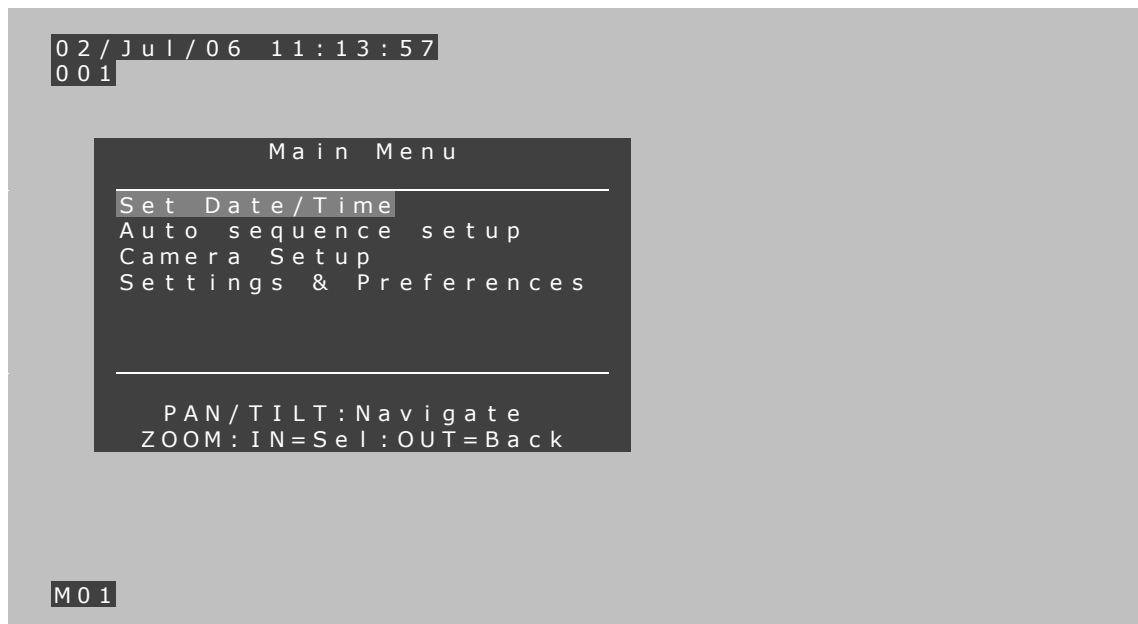
3.   Time & Date

From the Main Menu, move the Joystick down until 'Set Date/Time' is highlighted.

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


              Main  Menu
         _____

         Set  Date/Time
         Auto  sequence  setup
         Camera  Setup
         Settings  &  Preferences

         _____


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




M01
```

Twist the Joystick clockwise to select it.

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




                Set  Date/Time
            _____

            2006/07/02  11:13:00

            YYYY/MM/DD  HH:MM:SS
            _____

             PAN:Navigate  fields
             ZOOM:IN=Sel:OUT=Back






M01
```
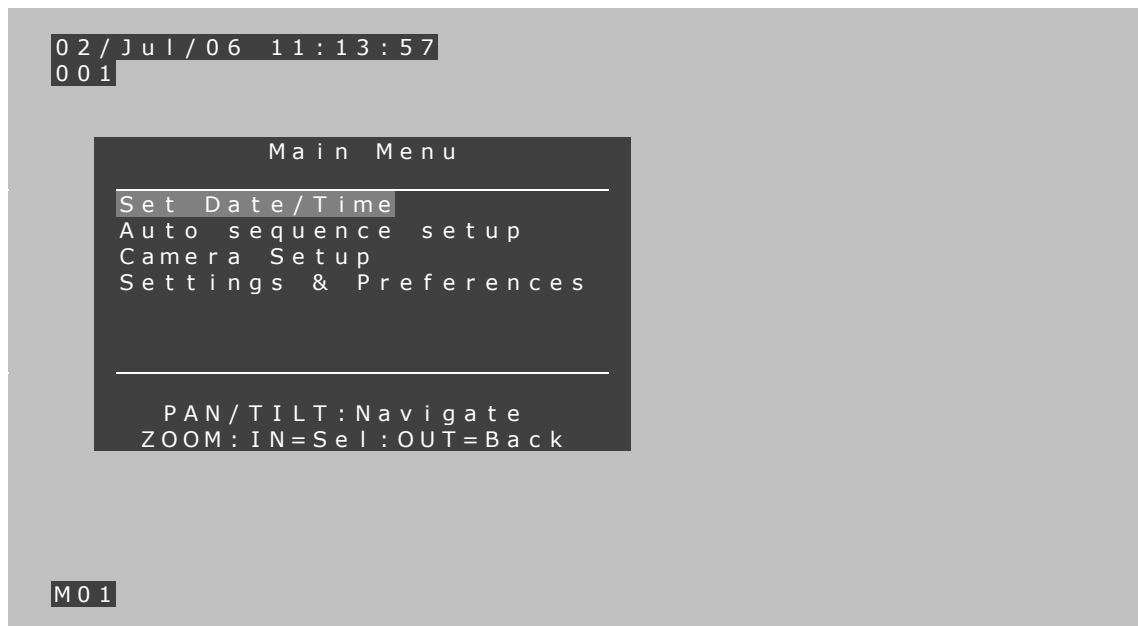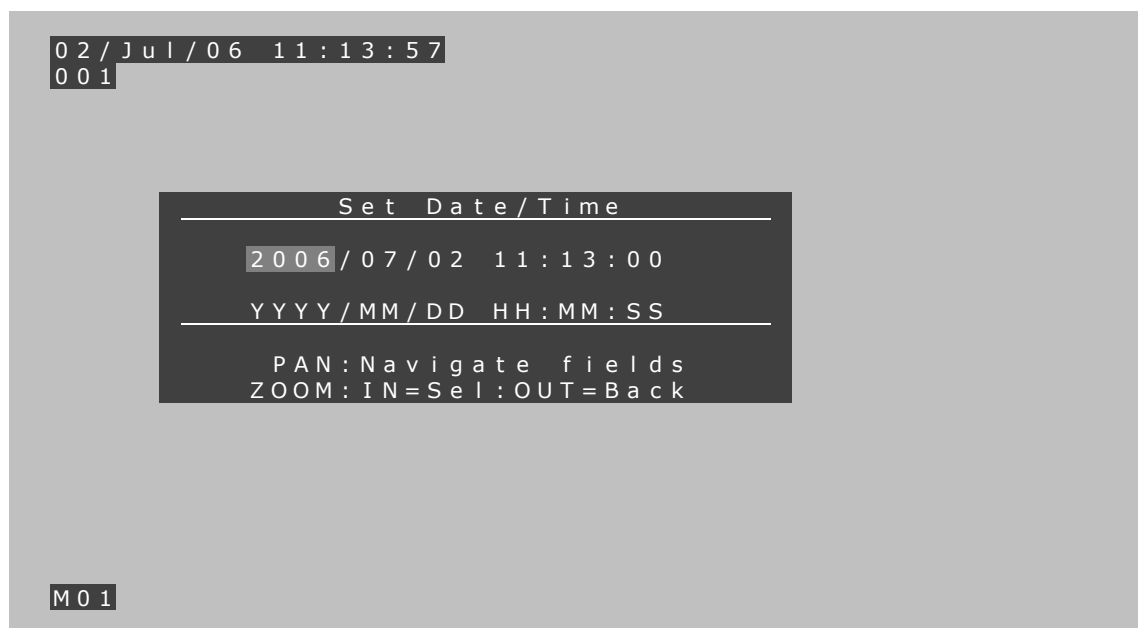
Enter the required numbers by using the VisionKeyboard numeric keypad

e.g. to enter '2007' press '2' '0' '0' '7'

The cursor will automatically move along from year to month to day and then onto time.

If a mistake is made, move the joystick left to go back one cursor step

```
          INCONSISTANT  DATE  ADJUSTED

                     OK
```

4.   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.
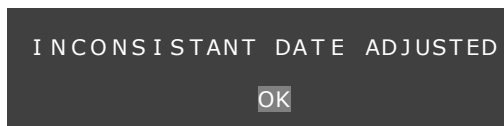
```
02/Jul/06  11:13:57
001

            Camera  Setup  (Camera  1)

     Tour  Setup                 1
     Mimic  Setup                5
     Auto  Flip                  Full-Auto
     Digital  Zoom               ON
     Freeze  Preset  Seeks       ON
     Camera  Reset
     Camera  Title
     Preset  Titling
     Home  Function              OFF
     Home  Action                Preset  1
     Home  Delay                 10  Sec
     _____

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

M01
```
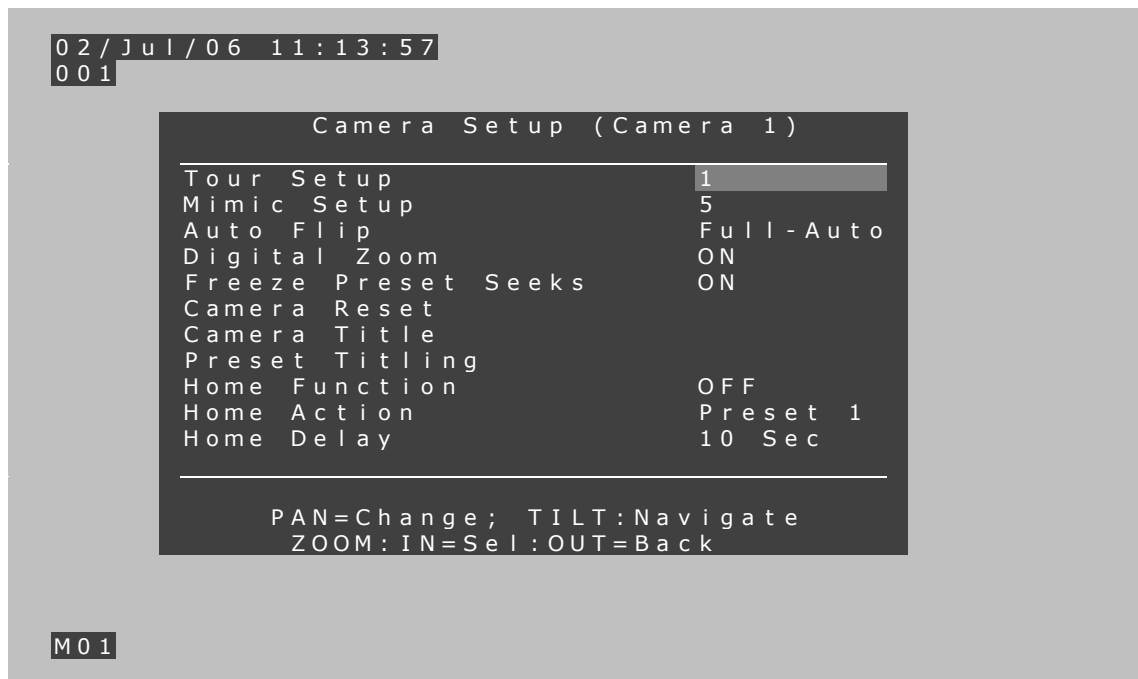
8 selectable items will be displayed at a time. Scroll arrows indicate more options to display.

To select the camera to edit

Press and release the camera ⬚ button.

See 'camera setup' in section 27 of VisionBMMatrix_and_VisionKeyboard_Operator_Manual for programming tour, mimic, auto-flip, digital zoom, frame, preset seek and camera reset..

5.   Camera Title

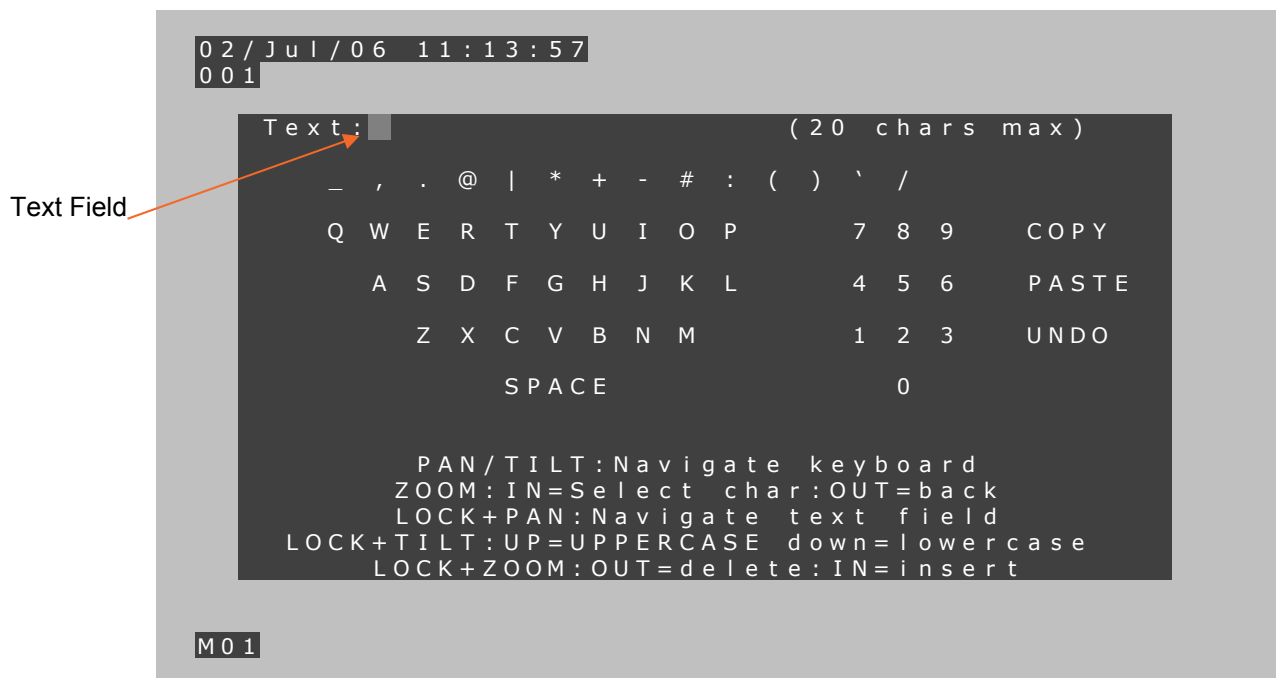From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist joystick clockwise to select it. The 'Setup Menu for Camera 1' will appear. Select the number of the camera to edit.

Press and hold camera 　 📷 　 button and use number buttons to select camera and

release camera button.

Move the joystick down until 'Camera Title' is highlighted. Twist the joystick clockwise to select it.

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

  Text:█                    (20  chars  max)

    _  ,  .  @  |  *  +  -  #  :  (  )  `  /

    Q  W  E  R  T  Y  U  I  O  P      7  8  9    COPY

    A  S  D  F  G  H  J  K  L         4  5  6    PASTE

    Z  X  C  V  B  N  M               1  2  3    UNDO

          SPACE                        0

       PAN/TILT:Navigate  keyboard
       ZOOM:IN=Select  char:OUT=back
       LOCK+PAN:Navigate  text  field
  LOCK+TILT:UP=UPPERCASE  down=lowercase
       LOCK+ZOOM:OUT=delete:IN=insert

 M01
```

Text Field (pointing to the Text field)

There are 20 characters per camera available for Titling.

The VisionBMatrix allows standard alphanumerics and also punctuation, symbols and UPPER / lower case lettering mixed in a single line

It is not possible to select a different camera when the camera title editing screen is displayed. twist the joystick anti-clockwise to exit to the camera setup menu and select the different camera.

Select 'Camera Title' and twist the joystick clockwise.

Creating Camera Titles

Move the joystick around the on screen keyboard and twist joystick clockwise to select the highlighted character.

Amending Titles

If you simply wish to amend the title, rather than entering in a new name,

Press and hold 'lock'   ⬤━0   button and use the Joystick to move left or right within the

current title until the cursor is highlighting the character to be changed and then release the 'lock' key.

Then, use the Joystick to move around the on screen keyboard until the required character is highlighted and twist the joystick clockwise to select that character and amend accordingly.

Copying Titles

If you wish to 'copy' the current title to another Camera (this is useful when long names only require small changes between cameras, e.g. 'Floor 2 Camera 3', 'Floor 2 Camera 4' etc).

First name the current camera as previously described and then move the Joystick to 'copy' the title.

Twist the joystick anti-clockwise to return to the previous menu.

Press and hold camera   ⬤▭▶   button, followed by the number buttons, release camera

button. Twist joystick clockwise.

To edit a new camera's title move the joystick to 'paste'.

Twist the joystick clockwise to paste and the previous title will now show on the current camera title.

Follow the previous instructions for amending titles to alter the title.

Upper and lower case letters

The screen keyboard can be set to lowercase as follows:

Press and hold lock   button,

Move joystick up and select uppercase or down to select lowercase letters.

Release lock button.

Uppercase and lowercase letters have now been selected.

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

    Text:               (20 chars max)

      _  ,  .  @  |  *  +  -  #  :  (  )  `  /

      q  w  e  r  t  y  u  i  o  p      7  8  9    COPY

        a  s  d  f  g  h  j  k  l       4  5  6    PASTE

          z  x  c  v  b  n  m           1  2  3    UNDO

            SPACE                       0

          PAN/TILT:Navigate keyboard
          ZOOM:IN=Select char:OUT=back
          LOCK+PAN:Navigate text field
   LOCK+TILT:UP=UPPERCASE down=lowercase
          LOCK+ZOOM:OUT=delete:IN=insert

M01
```

Text Field
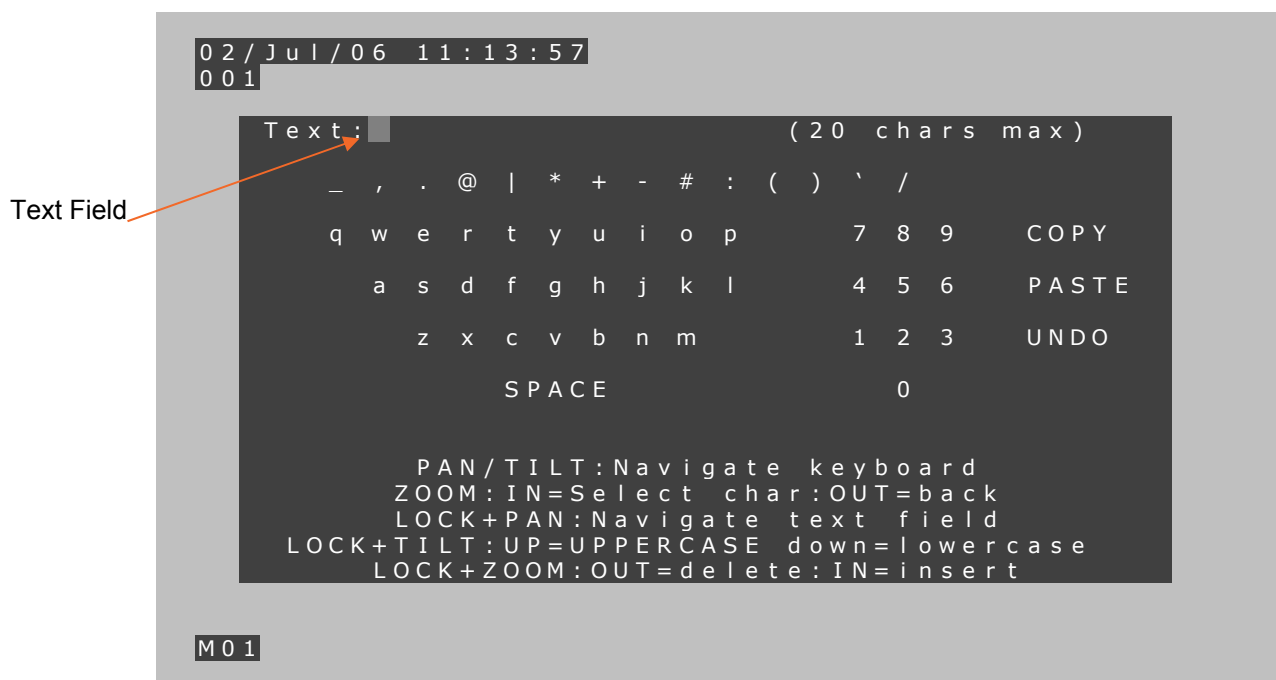
Insert a character:

Press and hold 'lock'   button and move the joystick to the left or right to move the

Cursor to highlight the character position where the character is to be inserted and then release the 'lock' button.

The inserted character will inserted between the cursor and the previous character.

Use the Joystick to move around the on screen keyboard until the required character is highlighted.

Twist the joystick clockwise to insert the selected character into the title in the selected position.

To delete a character:

Press and hold 'lock'   button and move the joystick to the left or right to move the

Cursor to highlight the character that is to be deleted.

Twist the joystick anti-clockwise and the highlighted character will be deleted.

Release lock button.

Undo:
The 'Undo' function simply puts back the previously saved title (particularly useful if accidentally changed), even if copy and paste has been used.

6.   Preset Titling

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

To select the camera for preset titling

Press and hold camera ▢ button and use number buttons to select camera and

release camera button. E.g. To select camera 2, press and hold the camera button. Use number buttons to select camera 2. Release the camera button.
Using the Joystick, move down until 'Preset Titling' is highlighted and twist the joystick clockwise to select.

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

          Preset  Titles  (Camera  1)

          1  Preset
          2  Preset
          3  Preset
          4  Preset
          5  Preset
          6  Preset
          7  Preset
          8  Preset
          9  Preset
         10  Preset
         11  Preset
         12  Preset                              V

          PAN:Navigate  fields
          ZOOM:IN=Sel:OUT=Back


M01
```

There is capacity to name the first **50** presets of each camera

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

     Text:                     (20  chars  max)

        _  ,  .  @  |  *  +  -  #  :  (  )  `  /

        Q  W  E  R  T  Y  U  I  O  P      7  8  9    COPY

        A  S  D  F  G  H  J  K  L      4  5  6    PASTE

        Z  X  C  V  B  N  M          1  2  3    UNDO

            SPACE                0


            PAN/TILT:Navigate  keyboard
            ZOOM:IN=Select  char:OUT=back
            LOCK+PAN:Navigate  text  field
     LOCK+TILT:UP=UPPERCASE  down=lowercase
            LOCK+ZOOM:OUT=delete:IN=insert


M01
```

Text Field →

There are 20 characters per preset available for Titling.
Preset Titles are edited in the same way as described above for camera titles.

7.   Home Function

From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist the joystick clockwise. The 'Setup Menu for Camera 1' will appear. Move the joystick down until 'Home Function' is highlighted. Twist the joystick clockwise to toggle between ON and OFF.

Home Function ON indicates that the Predator, Black Hawk Dome or VisionDome will automatically start; return to a preset, preset tour or mimic tour after a defined period (see section 9 below) of inactivity.

Home Function OFF disables the home function feature.

8.   Home Action

Select whether the home function is to use a preset, tour or mimic after the period of inactivity as follows:
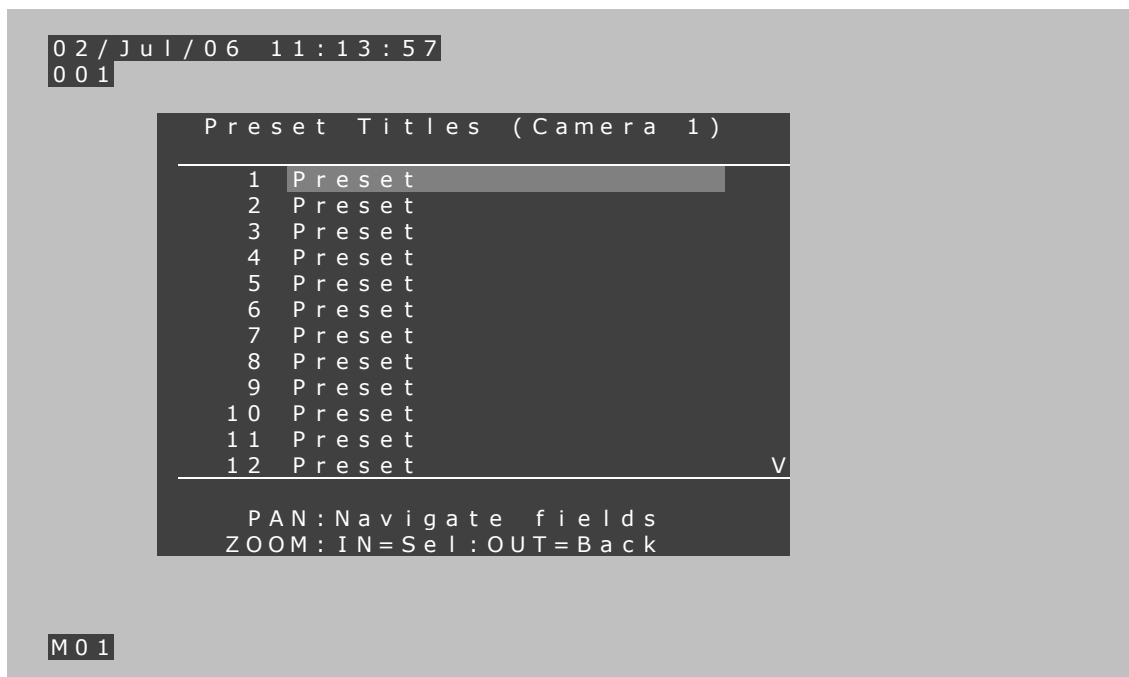
From the Main Menu, move the Joystick down until 'Camera Setup' is highlighted. Twist the joystick clockwise. The 'Setup Menu for Camera 1' will appear. Move the joystick down until 'Home Action' is highlighted. Twist the joystick clockwise to toggle between 'Preset' and 'Tour' or 'Mimic'.

After 'Preset', 'Tour' or 'Mimic' has been selected use the number buttons to set which one is to be used.

Move the joystick up or down to send the home action command to the Predator, Black Hawk Dome or VisionDome.

Note the valid numbers to use are: Presets in the range 1 to 360; Tours in the range 1 to 4; Mimics in the range 5 to 8.

9.   Home Delay

This allows the period of Predator, Black Hawk Dome or VisionDome inactivity to be selected. After the delay the home function activates. (Max Home Delay = 21600 seconds = 360 minutes = 6 hours)

The home delay timer can be set as follows:
From the main menu.

Move the joystick down until home delay is highlighted. Then use the number buttons to set the home delay time (in seconds).

When entering multidigit numbers, press the successive digits quickly.
If an error is made, wait a few seconds before entering the digits required.

Move the joystick up or down to send the home delay command to the Predator, Black Hawk Dome or VisionDome.

10.   Settings & Preferences

From the main menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise to select it.

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


              Main Menu
         _____
         Set Date/Time
         Auto sequence setup
         Camera Setup
         Settings & Preferences


         _____

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




M01
```
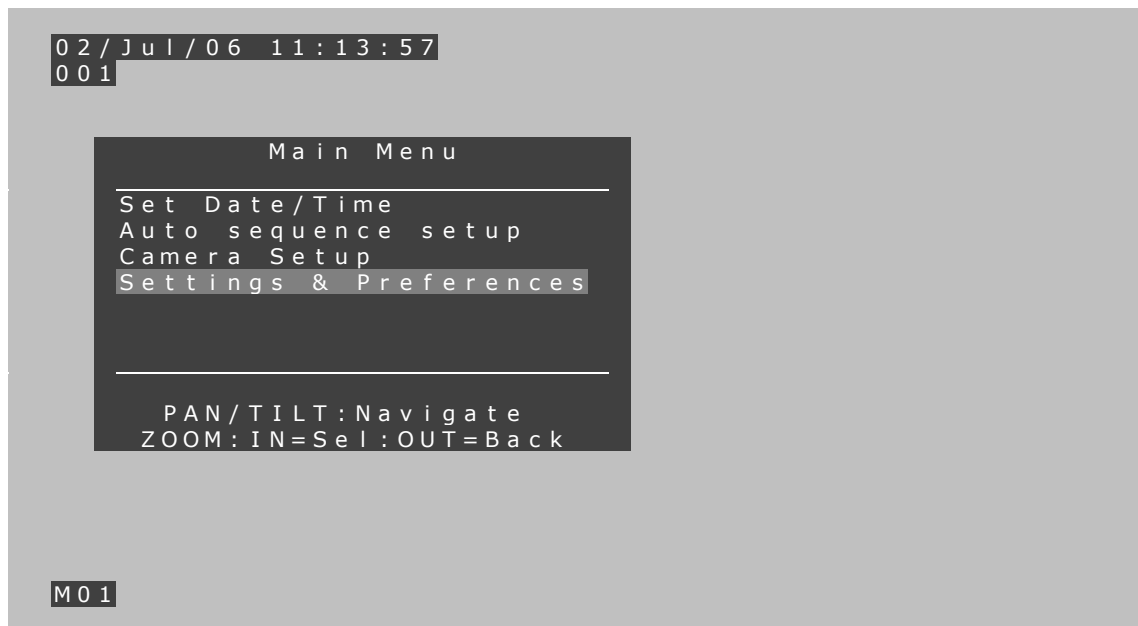
11.   Apply Settings to all Monitors.

When settings and preferences is used, the changes apply to only current monitor.
If the setting is to apply to all monitors, twist the joystick clockwise and select Yes.

```
     Apply this to all monitors?
                YES    NO
```

12. Date/Time Display ON/OFF

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Date/Time Display' is highlighted.

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

              Settings  &  Preferences
    _____
    Date/Time  Display        ON
    Date  Format              DD/Mon/YY
    Camera  Title  Display    ON
    Camera  Number  Display   ON
    Camera  Status  Display   ON
    Monitor  Number  Display  ON
    Text  Foreground  Level   310
    Text  Background  Level   0
    Text  Highlight  Level    150
    Alarm  BUZZER             ON
    Dead  Cams  in  sequence  Skip
    _____

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


M01
```

Move the joystick left or right to select ON or OFF.

Selecting this option allows the controller to choose if the Time/Date information will be displayed on screen.

Twist the joystick clockwise to make this item applicable to all monitors – see section 11.

```
    Apply  this  to  all  monitors?
            YES    NO
```
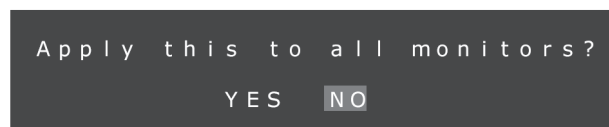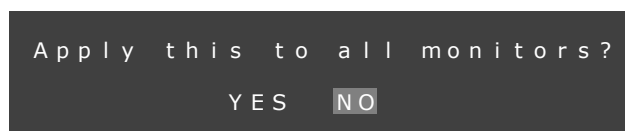
13.   Date Format

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Date Format' is highlighted.

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

                Settings  &  Preferences
       _____
       Date/Time  Display        ON
       Date  Format              DD/Mon/YY
       Camera  Title  Display     ON
       Camera  Number  Display    ON
       Camera  Status  Display    ON
       Monitor  Number  Display   ON
       Text  Foreground  Level    310
       Text  Background  Level    0
       Text  Highlight  Level     150
       Alarm  BUZZER             ON
       Dead  Cams  in  sequence   Skip
       _____
            PAN=Change;  TILT:Navigate
             ZOOM:IN=Sel:OUT=Back


M01
```
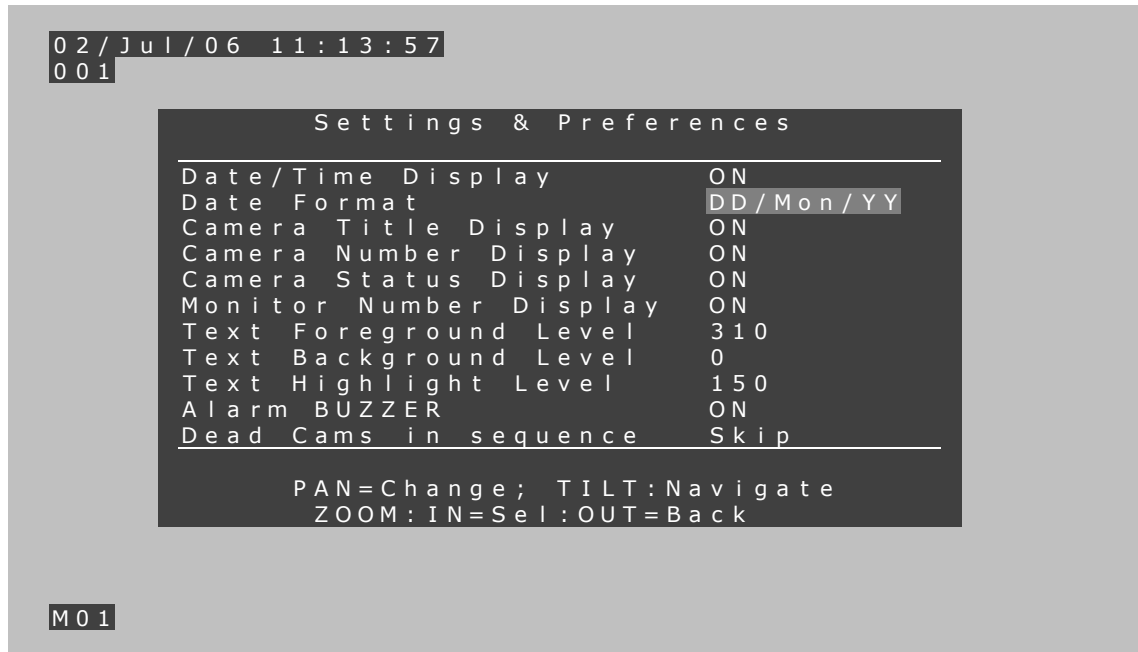
Using the Joystick, move left or right to select the required Date Format. Options are:-

Format:	DD/MM/YY	MM/DD/YY	DD/Mon/YY	Mon/DD/YY
Example:	31/07/06	07/31/06	31Jul06	Jul/31/06

14. Camera Title Display

Selecting this option allows the operator to choose if camera titling will be displayed on screen.
From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Camera Title Display' is highlighted.
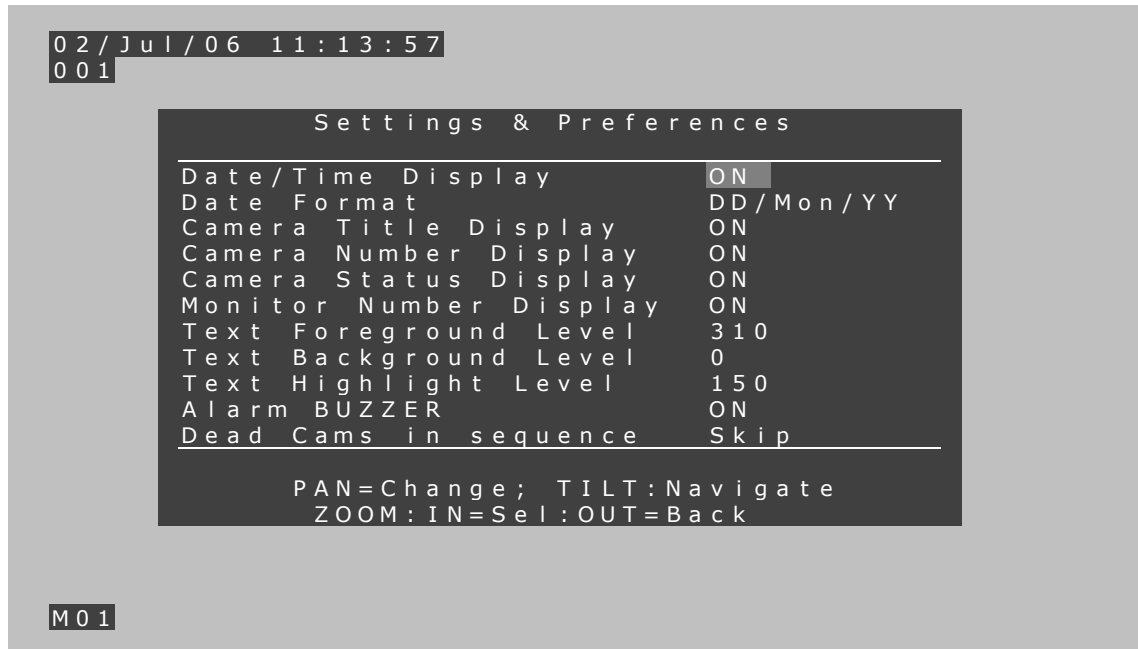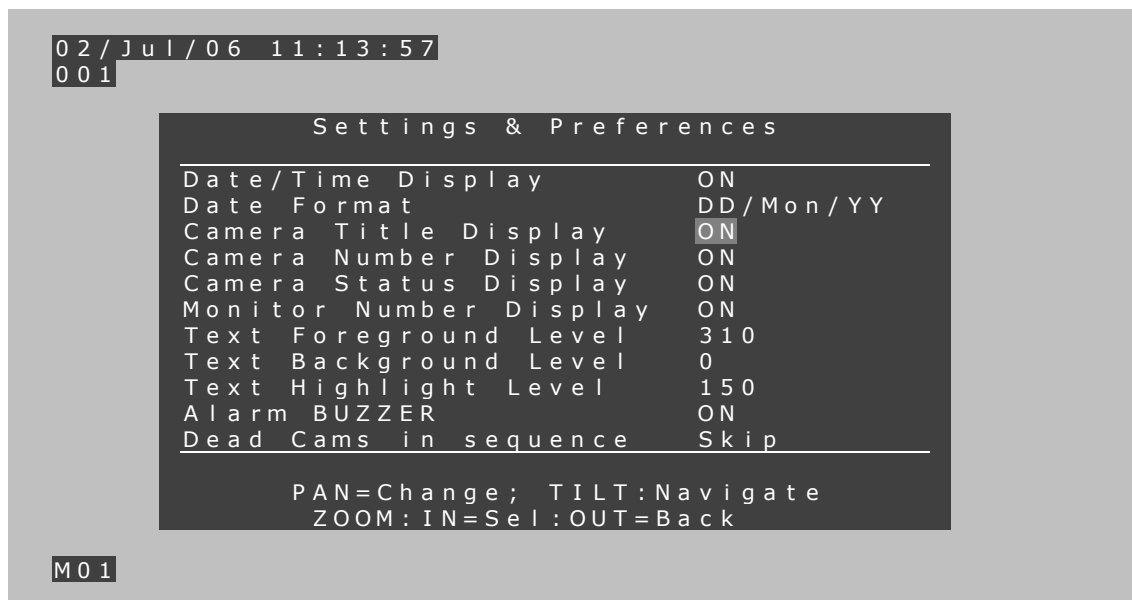
```
02/Jul/06 11:13:57
001

              Settings & Preferences

      Date/Time Display            ON
      Date Format                  DD/Mon/YY
      Camera Title Display         ON
      Camera Number Display        ON
      Camera Status Display        ON
      Monitor Number Display       ON
      Text Foreground Level        310
      Text Background Level        0
      Text Highlight Level         150
      Alarm BUZZER                 ON
      Dead Cams in sequence        Skip

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

M01
```

Move the joystick left or right to select ON or OFF.

Twist the joystick clockwise to make the setting applicable to all monitors. See section 11.

15. Camera Number Display

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Camera Number Display' is highlighted.

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

              Settings & Preferences

      Date/Time Display            ON
      Date Format                  DD/Mon/YY
      Camera Title Display         ON
      Camera Number Display        ON
      Camera Status Display        ON
      Monitor Number Display       ON
      Text Foreground Level        310
      Text Background Level        0
      Text Highlight Level         150
      Alarm BUZZER                 ON
      Dead Cams in sequence        Skip

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

M01
```

Twist joystick clockwise to select on or off

Selecting this option allows the operator to turn off the Camera Number display that appears directly below the Time/Date.

Twist the joystick clockwise to make current setting applicable to all monitors. See section 11.

16. Camera Status Display

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Camera Status Display' is highlighted.
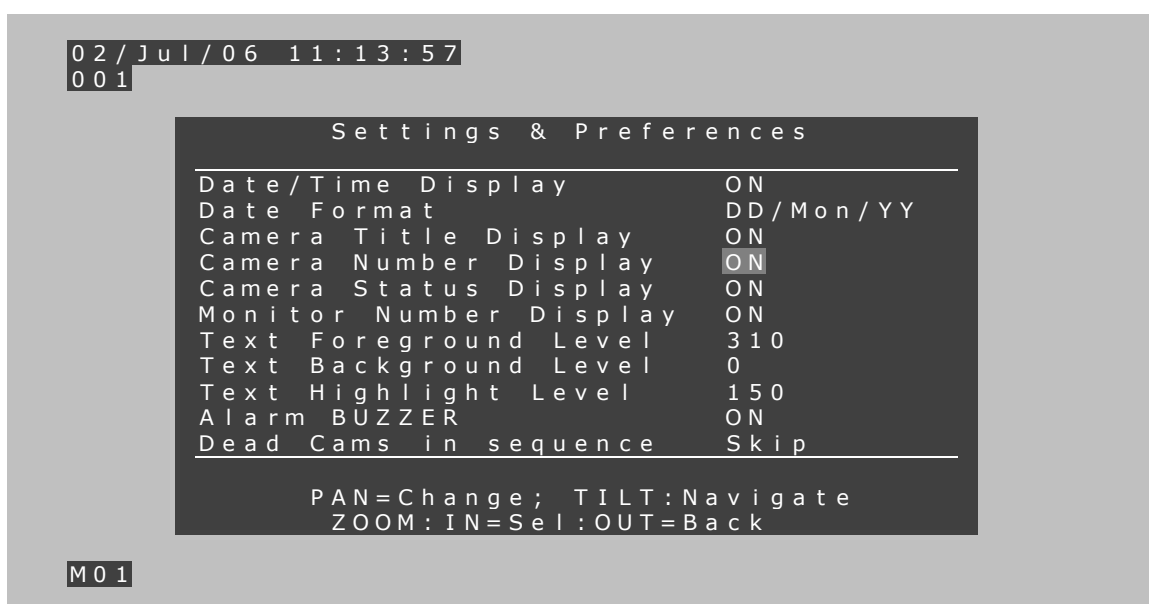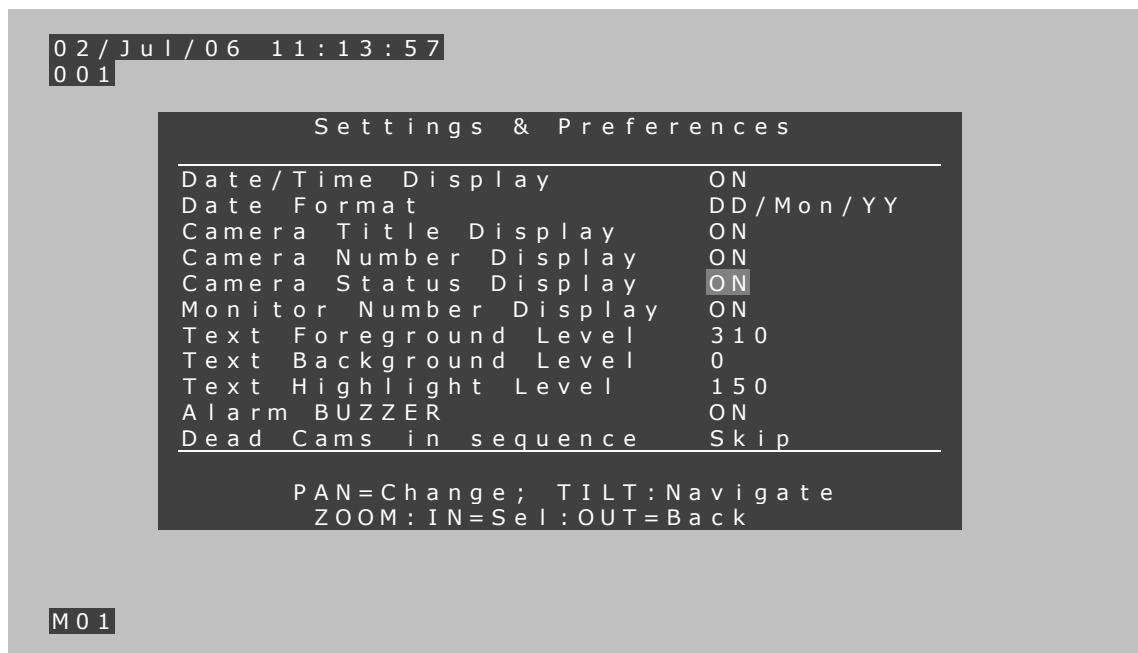
```
02/Jul/06  11:13:57
001

              Settings  &  Preferences

    Date/Time  Display          ON
    Date  Format               DD/Mon/YY
    Camera  Title  Display       ON
    Camera  Number  Display      ON
    Camera  Status  Display      ON
    Monitor  Number  Display     ON
    Text  Foreground  Level      310
    Text  Background  Level      0
    Text  Highlight  Level       150
    Alarm  BUZZER               ON
    Dead  Cams  in  sequence     Skip

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

M01
```
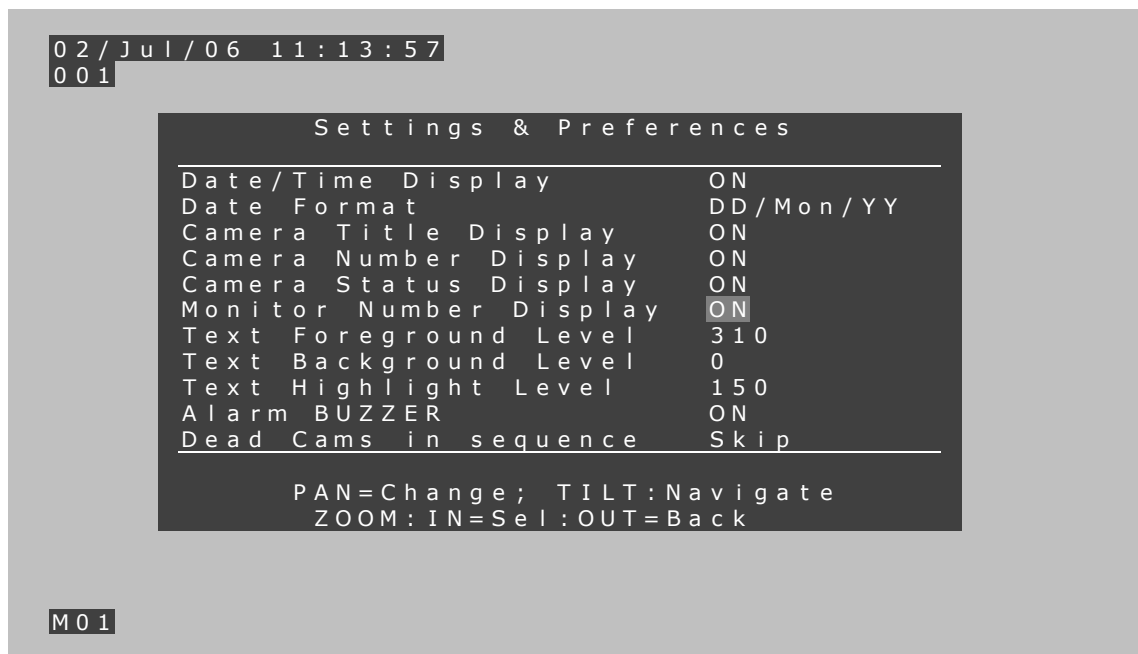
Twist joystick clockwise to select ON or OFF.

Camera status display ON displays preset titles and tour status information for each Predator, Black Hawk Dome or VisionDome camera.

Twist the joystick clockwise to make current setting applicable to all monitors. See section 11.

17. Monitor Number Display

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Monitor Number Display' is highlighted.

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

              Settings  &  Preferences

     Date/Time  Display          ON
     Date  Format                DD/Mon/YY
     Camera  Title  Display      ON
     Camera  Number  Display     ON
     Camera  Status  Display     ON
     Monitor  Number  Display    ON
     Text  Foreground  Level     310
     Text  Background  Level     0
     Text  Highlight  Level      150
     Alarm  BUZZER               ON
     Dead  Cams  in  sequence    Skip

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




M01
```

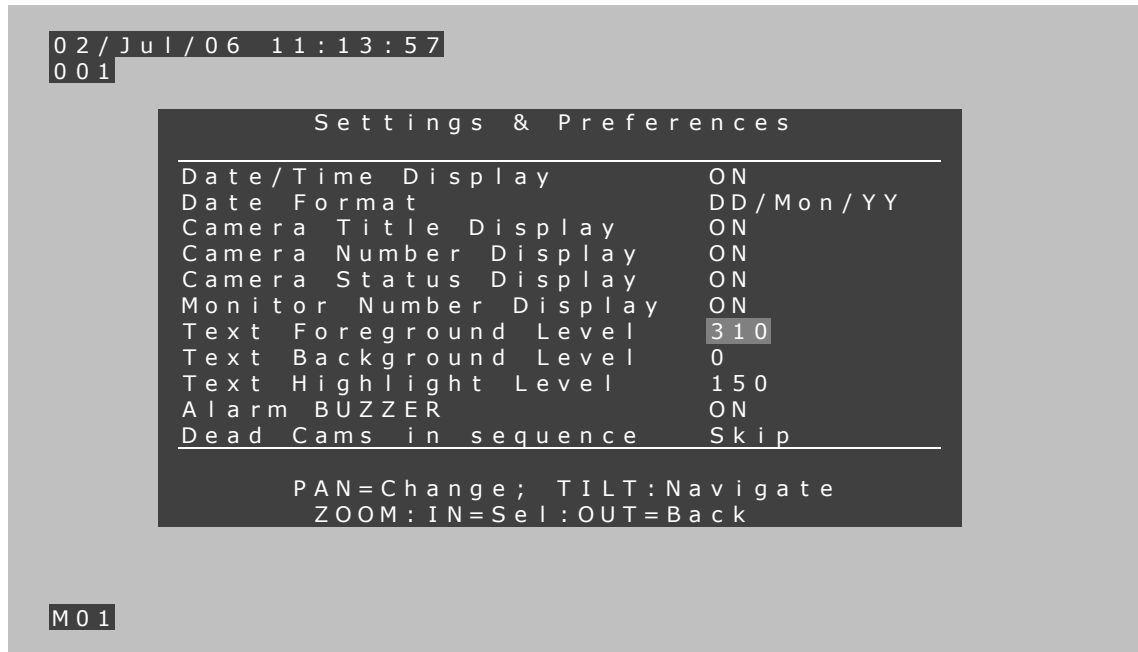Twist joystick clockwise to turn display on or off.

This allows the operator to choose whether to display the Monitor number and Keyboard number as part of the on screen display.

Twist the joystick clockwise to make current setting applicable to all monitors. See section 11.

18.   Text Foreground / Background / Menu Highlight Levels

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Text Foreground Level' or 'Text Background Level' or 'Menu Highlight Level' is highlighted.

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

                 Settings  &  Preferences

    Date/Time Display          ON
    Date Format                DD/Mon/YY
    Camera Title Display       ON
    Camera Number Display      ON
    Camera Status Display      ON
    Monitor Number Display     ON
    Text Foreground Level      310
    Text Background Level      0
    Text Highlight Level       150
    Alarm BUZZER               ON
    Dead Cams in sequence      Skip

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


M01
```

Foreground = colour of Text. Use the Joystick left or right to move from Black through to White
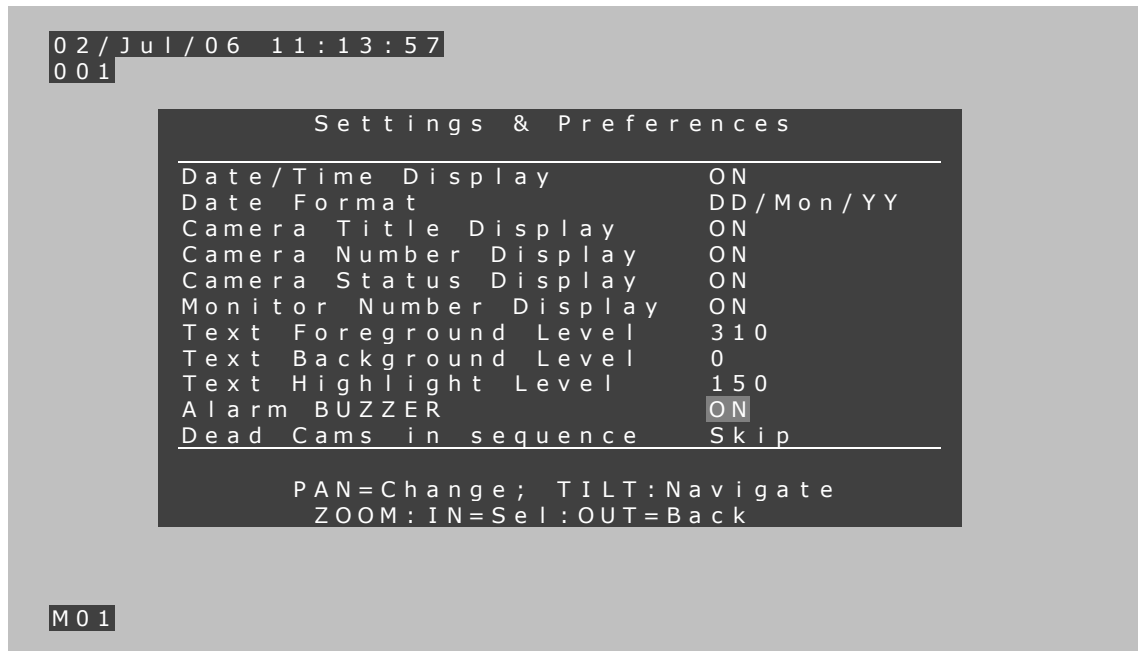
Background = colour of Text Box. Use the Joystick left or right to move from Black through to White

Highlight = colour of active selection menu highlight. Use the joystick left or right to move from black through to white

For each of the items, twist the joystick clockwise to make current setting applicable to all monitors. See section 11.

19. Alarm Beep

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Alarm BEEP' is highlighted.

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

              Settings  &  Preferences

Date/Time  Display          ON
Date  Format                DD/Mon/YY
Camera  Title  Display       ON
Camera  Number  Display      ON
Camera  Status  Display      ON
Monitor  Number  Display     ON
Text  Foreground  Level     310
Text  Background  Level     0
Text  Highlight  Level      150
Alarm  BUZZER               ON
Dead  Cams  in  sequence    Skip

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



M01
```
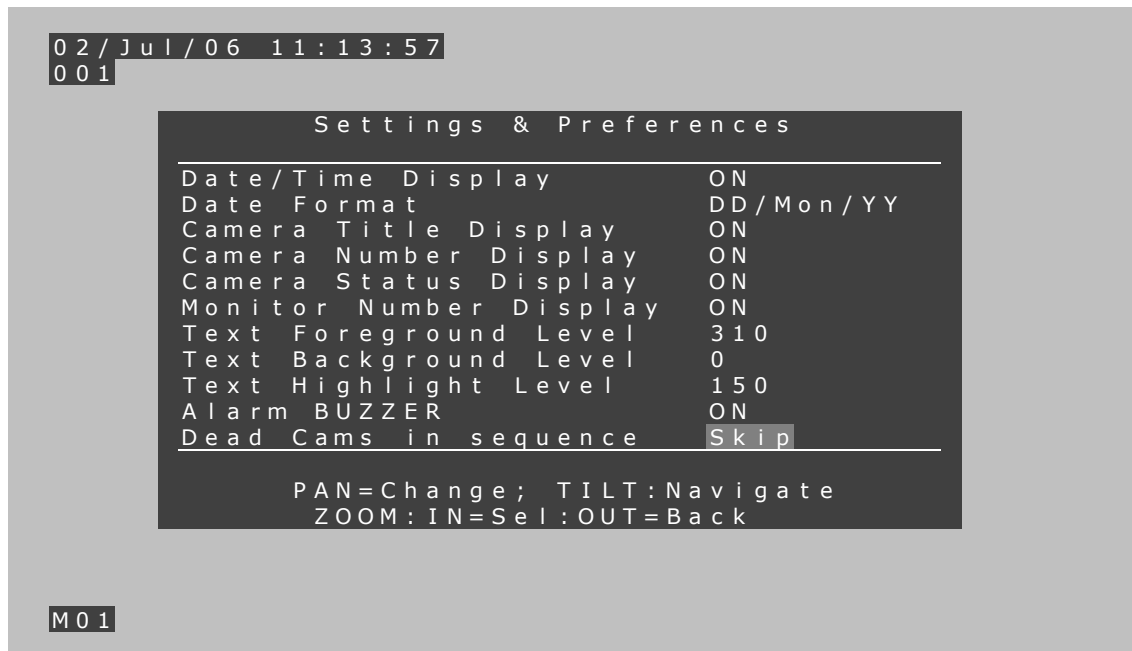
Twist joystick clockwise to select on or off.

When on, any alarm that activates will also activate the internal constant alarm beep for the duration of the active alarm(s).

Select off to switch the alarm beep off; this will have no affect on alarm operation or functionality.

20. Dead Cameras in Sequences

From the Main Menu, move the Joystick down until 'Settings & Preferences' is highlighted. Twist the joystick clockwise. The 'Settings and Preferences' menu will appear. Move the joystick down until 'Dead Cameras in Sequences' is highlighted.

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


              Settings  &  Preferences

    Date/Time  Display         ON
    Date  Format              DD/Mon/YY
    Camera  Title  Display      ON
    Camera  Number  Display     ON
    Camera  Status  Display     ON
    Monitor  Number  Display    ON
    Text  Foreground  Level     310
    Text  Background  Level     0
    Text  Highlight  Level      150
    Alarm  BUZZER              ON
    Dead  Cams  in  sequence    Skip

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




M01
```

Twist joystick clockwise to select skip or short dwell.

This option allows the engineer to choose whether to skip (bypass) cameras that have lost Video signal during any video sequencing, or to leave a short dwell so that it becomes apparent that a camera has lost video.

21. 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.