

**The new 36x NitePlus PTZ module for  
the Pan, Tilt and Zoom ranges of domes.**

**Camera Instruction Manual.**

**Superior Auto Focus**

**Superior Backlight Compensation**



**1. OSD Navigation.**

The way to navigate to the menu options is dependant on the model of PTZ that the module has been installed in.

**1.1 The PTZ645 / PTZ600 series**

When the module is installed in the PTZ645/600 series the OSD menu is accessed by **CALL 57** from a keypad that is connected to the PTZ via RS485 comms. Navigation by keyboard is generally done by the **TELE & WIDE** buttons and selection is made with the **NEAR & FAR** buttons. To exit the OSD menu use **CALL 57** on the keypad.

Using the Alien DVR, navigation is by the Zoom - and Zoom +, selection is by the Focus - and Focus + and enter is by the Iris -

**1.2 The PTZ600 Series.**

When the module is installed in the PTZ600 series the OSD menu is accessed by **CALL 63** from a keypad that is connected to the PTZ via RS485 comms.

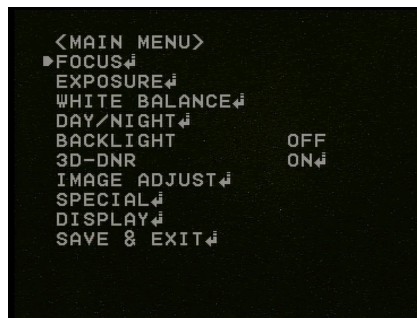
Navigation by keyboard is generally done by the **TELE & WIDE** buttons and selection is made with the **NEAR & FAR** buttons. To exit the OSD menu use **CALL 63** on the keypad or **EXIT**.

Using the Alien DVR, navigation is by the Zoom - and Zoom +, selection is by the Focus - and Focus + and enter is by the Iris -

**NOTE:** If using the PTZ700 keypad it will be necessary to enter the 63 CALL twice.

## **2. The module Menu Structure.**

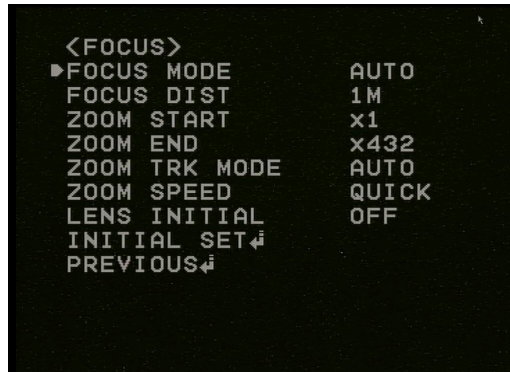
Once in the menu system of the camera module the following sub-menus are available.



- FOCUS**< Focus Mode - Focus Dist - Zoom Start - Zoom End  
Zoom Track Mode – Zoom Speed – Lens Initial -  
Initial Set - Previous<
- EXPOSURE**< Brightness - Iris – Shutter - AGC – SENS- Up – Initial  
Set - Previous<
- WHITE BALANCE**< WB Mode – Anti Rolling – Initial Set - Previous<
- DAY/NIGHT**< D/N Mode – D/N Level – D/N Delay – Initial Set - Previous<
- BACKLIGHT**< Off – BLC - WDR – ECL>
- 3D-DNR**< Off>
- IMAGE ADJUST**< D-Effect - Image Freeze - Color - Sharpness - Gamma – Initial  
Set - Previous<
- SPECIAL**< Comm Adjust – Motion Det – Privacy Mask - Stabilizer – L/L  
Sync – Factory Initial - Reboot - Previous<
- DISPLAY**< Cam Title – Camera ID – Zoom Mag – Motion Det – Function  
– Language – Initial Set - Previous
- SAVE & EXIT**<

## **2.1 The FOCUS menu.**

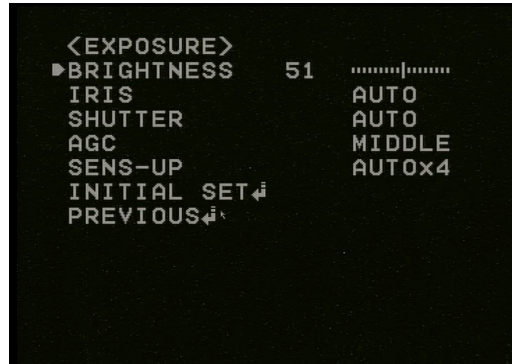
This menu is for setting camera zoom and focus.



- FOCUS MODE** Set up of automatic focus option. This allows the user to control the adjustment of the focus automatically by the module (AUTO) or to allow the operator to adjust the focus manually using the NEAR & FAR buttons on the keypad (MANUAL). PUSH allows for temporary automatic focus only when Menu button is pressed.
- FOCAL DISTANCE** This option is to set the range of focus distance that the camera will focus to when performing an auto focus. The options are 150cm, 2m, 3m, 1cm, 10cm, 50cm, 1m. For example if the focal distance is set to 50cm the module will try to focus within 50cm of the focused object. On long runs use higher settings.
- ZOOM START** This option is the setting of the minimum zoom that the module will allow x001 to x270. For example if this is set to x005 the operator will not be able to use the x001 to x004 modes when using the WIDE & TELE buttons.
- ZOOM END** This option is the setting of the maximum zoom that the module will allow x1 to x270. For example if this is set to x27 the operator will only be able to zoom to the limit of the optical zoom and not the digital zoom up to x270.
- ZOOM SPEED** This setting is the speed of the modules optical zoom function (x1 ~ x27) providing three speed options. 1 = 7.5 secs, 2 = 6 secs and 3 = 4 secs. 1 is the slowest and 3 is the fastest.
- ZOOM TRACK MODE** Off > Auto> Manual
- ZOOM SPEED** Quick > Slow> Normal
- INITIAL SET** When switched ON this option will reset all of the options within the FOCUS menu back to their default setting.
- PREVIOUS** Closes and returns to the previous menu.

## 2.2 Exposure Menu

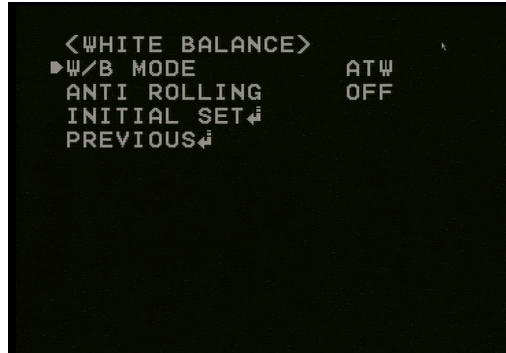
This menu is for configuring the following exposure settings;



- BRIGHTNESS<** This alters the brightness of the image output by the module from 1 to 100, where 1 is the darkest and 100 the brightest.
- IRIS<** Auto / Manual. Only used when in Manual mode
- SHUTTER** Off / Auto/ A-FLK /Manual<  
A-FLK This setting turns the flickerless mode ON for use near fluorescent light fittings.
- AGC** Low / Middle / High
- SENS UP<** Used in low light conditions for full colour surveillance. OFF switches off SENS UP function. Can be adjusted from x2, 4, 8, 16, 32, 64 and 128. This is the NiteDevil feature. This slows down the shutter speed to grab more light.
- INITIAL SET<** When switched ON this option will reset all of the options within the Exposure menu back to their default setting.
- PREVIOUS** Return to previous menu.

### **2.3 White Balance**

This menu is for configuring the following White Balance settings;



**W/B MODE**    ATW / Indoor /Outdoor / Push

This automatically adjusts colour according to the available lighting. ATW (Alternating White Balance) is for general outdoor use as it is for changing colours and is the popular setting. Alternatively use the Indoor or Outdoor setting. Use Push to automatically adjust colour whilst the menu button is pressed in this temporary mode.

**ANTI ROLLING**    OFF / ON

Standard anti rolling technology initiated.

**INITIAL SET<**

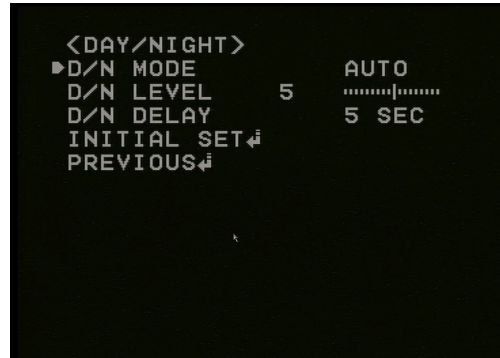
When switched ON this option will reset all of the options within the White Balance menu back to their default setting.

**PREVIOUS**

Return to previous menu.

## **2.4 Day/Night Menu**

This menu is for configuring the following Day/Night settings;



### **D/N MODE AUTO / DAY / NIGHT /EXT /CDS**

The AUTO option sets colour during the day and switches to black & white at night.  
The DAY option sets colour during the day and at night.  
The NIGHT option sets black & white during the day and at night.  
The EXT option operates by external signal.  
CDS uses sensor to determine light level.

### **D/N LEVEL<**

This option sets the detection level when switching from day to night.

### **D/N DELAY 5 / 10 / 15 / 30 / 60 seconds**

This setting allows you to determine the time delay of the switch over from day to night mode, or night to day mode, once a sustained light level is reached for the delay time set from 5 to 60 seconds.

### **INITIAL SET**

When switched ON this option will reset all of the options within the D & N menu back to their default setting.

### **PREVIOUS**

Return to previous menu.

## **2.5 Backlight Menu OFF / BLC / ECL**

This menu is for configuring the following backlight compensation settings.  
The settings allow for higher light levels detected in the picture frame to be dumbed down allowing for a more evenly spread of light

### **OFF**

Backlight switched off

### **BLC MIDDLE / HIGH / LOW**

This sets the level of backlight compensation applied by the camera.

### **ECL AREA SETTING / ALL AREA SET / MASK COLOR / ECL LEVEL**

This sets backlight compensation according to area in picture frame that has higher light level.

#### **AREA SETTING OFF / ON**

The area or areas that are defined in the 16 x Area Setting display screen.

#### **ALL AREA SET OFF / ON**

Allows all 16 areas to be switched on and off.

#### **MASK COLOR GREY / DARK GREY / BLACK**

Allows area/s to be given a masking colour.

#### **ECL LEVEL 1 ~ 100**

Adjust overall light compensation level.

### **INITIAL SET**

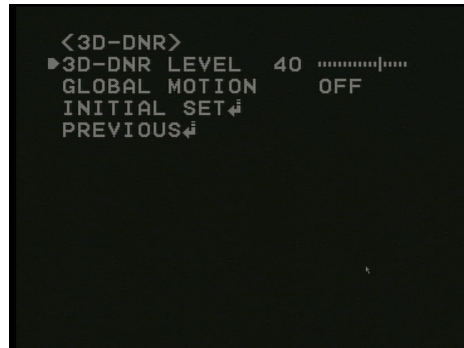
When switched ON this option will reset all of the options within the BLC menu back to their default setting.

### **PREVIOUS**

Return to previous menu.

## **2.6 3D-DNR (Digital Noise Reduction)**

This menu is for configuring the following Digital Noise Reduction settings;



3D-DNR can reduce image noise especially during low ambient light conditions when used with the SENS-UP function in the Exposure menu.

### **3D-DNR LEVEL 0 ~ 63**

This option allows you to set the level of digital noise reduction. Start at approximately 32 half way.

### **GLOBAL MOTION OFF / ON**

### **INITIAL SET**

When switched ON this option will reset all of the options within the 3D-DNR menu back to their default setting.

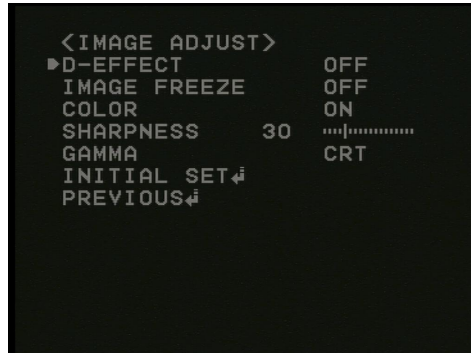
### **PREVIOUS**

Return to previous menu.



## 2.7 IMAGE ADJUST

This menu is for configuring the Image settings.



**DE-EFFECT**      Select from OFF, VFLIP, ROTATE or MIRROR.  
VFLIP turns picture upside down.  
ROTATE moves picture 90 degrees.  
MIRROR produces horizontal flip.

**IMAGE FREEZE**   OFF / ON   Press to freeze picture.

**COLOUR**      Switch colour ON or OFF.

**SHARPNESS**      Adjusts sharpness of outlines.      Can be set from 1 ~ 100.

**GAMMA**      CRT / LCD / USER  
USER      Sets monitor type and Gamma level.  
            Adjusts Gamma level between 0.45 ~ 1.0

**INITIAL SET**  
When switched ON this option will reset all of the options within the Image Adjust menu back to their default setting.

**PREVIOUS**  
Return to previous menu.

## 2.8 SPECIAL

This menu is for configuring the Special settings. These include COMM ADJUST (do not change), Motion, Privacy Mask, Stabilizer, L/L Sync, Factory Initialise, Reboot and Previous.

```
<SPECIAL>
▶COMM ADJUST↵ OFF
MOTION DET OFF
PRIVACY MASK OFF
STABILIZER OFF
L/L SYNC INT
FACTORY INITIAL↵
REBOOT↵
PREVIOUS↵
```

**COMM ADJUST** Do not change these menu settings as can stop module access. These are set in the PTZ menu using a CALL 95 or via dipswitch settings.

### **MOTION OFF / ON**

This option can be set so that when there is movement on the screen, the letters MD will be displayed on the screen. Not generally used on PTZ cameras that constantly move.

```
<MOTION DET>
▶ZONE NUMBER ZONE1
ZONE STATE OFF
WIDTH 30 .....
HEIGHT 30 .....
MOVE X 30 .....
MOVE Y 25 .....
MOTION ZOOM OFF
SENSITIVITY 50
MD ALARM OUT ON
INITIAL SET↵
PREVIOUS↵
```

```
<MOTION ZOOM>
▶TARGET ZOOM X1.5
D-WELL TIME 15 SEC
PREVIOUS↵
```

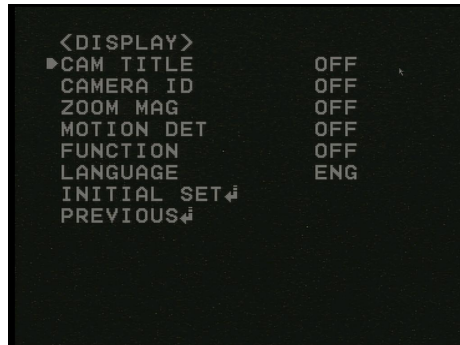
MOTION ZOOM allows the camera to zoom in when motion detected. Note that as most PTZs are in constant movement this camera module option is rarely used.

**PRIVACY MASK** The PRIVACY function only compatible if this is available in the PTZ menu also.

```
<PRIVACY MASK>
▶MASK NUMBER ZONE1
MASK STATE OFF
MASK COLOR GRAY
WIDTH 20 .....
HEIGHT 20 .....
MOVE X 0 .....
MOVE Y 0 .....
MASK CENTRALIZE↵
INITIAL SET↵
PREVIOUS↵
```

- MASK NUMBER** Select from 1 ~ 8 privacy zones
- MASK STATE** Switches the mask number selected to OFF or ON.
- MASK COLOR** Mask State ON then select from GREY, YELLOW, GREEN, RED, BLUE, BLACK or WHITE.
- WIDTH & HEIGHT** Use arrow keys to determine size of this mask
- MOVE X or MOVE Y** Use arrow keys to position this mask.
- MASK CENTRALIZE** Selecting this moves the mask area to a central position.
- INITIAL** When switched ON this option will reset all of the options within the PRIVACY MASK menu back to their default setting.
- PREVIOUS** Return to previous menu.
- STABILIZER** **OFF / ON**  
This option helps reduce the effects of vibration.
- L/L SYNC** **INT / L/L**  
This is normally set as INT internal. If using Line Lock this can halt a rolling picture.
- FACTORY INITIAL** Use to return camera back to default settings.
- REBOOT** Use to reboot camera module.
- PREVIOUS** Return to previous menu.

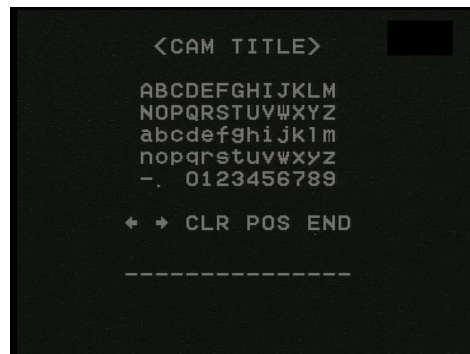
## 2.9 DISPLAY (Camera Title, ID and Display options)



### **CAM TITLE**

**OFF / ON**

This option if switched to ON allows you to display a camera title. If you enter the camera title menu you can enter up to a 15 character title. The POS option allows you to select the position where the title is displayed.



### **CAMERA ID**

**OFF / ON**

This option allows you to set a 3 character ID position. Press the menu key to enter and set position using arrow keys.

### **ZOOM MAG**

Switches ZOOM MAGnification display ON or OFF.

### **MOTION DET**

Switch Motion Detection display ON or OFF.

### **FUNCTION**

Switches FUNCTION display ON or OFF.

### **LANGUAGE**

**ENG** Displays language used.

### **INITIAL**

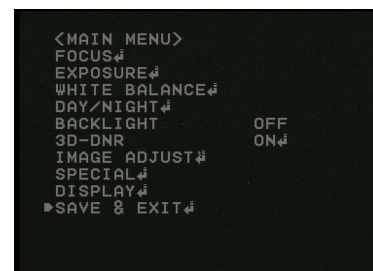
Initialises default DISPLAY settings.

### **PREVIOUS**

Return to previous menu.

### **2.10 SAVE & EXIT**

Enter to save and exit menu.



### Technical Specifications

Signal System	PAL
Scanning System	2:1 Interlace
Scanning Frequency (H)	15.625kHz
Scanning Frequency (V)	50Hz
Image Sensor	1/4" IT CCD
Sync. System	Internal
Electronic Shutter Speed	1/50 ~ 1/90,000 sec
Effective Pixels	752(H) x 582(V) 440K
Horizontal Resolution	540TVL (B/W 600TVL)
Video Output Level	1.0v p~p (75Ω, Composite)
S/N Ratio	More than 52dB (AGC Off)
Digital Zoom Ratio	12 x
Lens	36 x zoom Video AF (f=3.4~122.4mm, F1.6(W)-F4.5(T))
Minimum Illumination	Day Mode .1 Lux / Night Mode 0.0002 Lux (DSS ON)
Day & Night System	IR Cut Filter & Digital Slow Shutter
White Balance	AWB / ATW/Push /Manual /Indoor / Outdoor
AGC	Off / High / Middle / Low / Manual
Backlight Compensation	High / Middle / Low
Eclipse	On/Off / (16 zones)
Digital Slow Shutter	2 FLD ~ 128 FLD / Off
OSD Menu	On / Off
WDR	Front / Centre / Rear / User Long & Short
D-Effect	Mirror / V-flip / Rotate
Privacy Mask	On / Off (8 Zones)
Supplied Voltage	12v DC
Power Consumption	Max 6W
Dimensions	50(W) x 57.5 (H) x 87.4 (D) mm
Motion Detection	On / Off (4 Zones)