

**Designed to provide surveillance for Vulnerable and Harsh environments, indoors or outdoors.**



- IP66 Weatherproof, Vandal-Resistant Housing
- Cast Aluminium enclosure, Polycarbonate dome
- Hi-Resolution 1/3" CCD — 520TVL
- OSD ~ On Screen Display settings control
- 3-axis gimbal (360° pan, 90° tilt)
- 12vDC Low Power Consumption
- Infra Red LED option to approx. 15m (360° pan, 70° tilt)
- Standard lens is 3.3~12mm Vari-focal Auto Iris DD
- 5~50mm VF AI Lens option\*

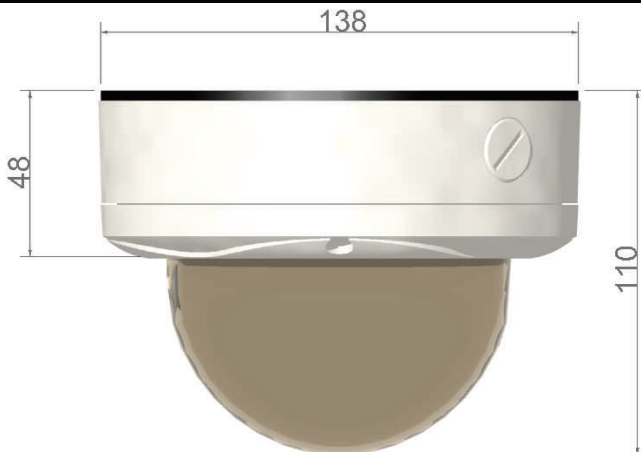
\* not in IR LED versions

Sensor	Interline CCD	<b>Connections</b> The camera is supplied with a fitted flying lead:  Yellow BNC = video signal Red inline jack = 12vDC  The kit includes a 2nd video output and extension cable for local set-up monitoring
Voltage	12V DC (24vAC option on request)	
AGC	Switch-able	
BLC	Switch-able	
Video Signal	Composite into 75Ω	
Operating Temp.	-10 °C to +50 °C	
Relative Humidity	85% Max. non-condensing	

Mode	Sensor	Resolution	Sensitivity	Power	Dimension	Feature	ORDER CODE
Colour	1/3" PAL	520 TVL	0.3 Lux	90 mA	Ø140 mm	Auto-Iris, Varifocal	<b>VRD135/90CHVAI</b>
TDN	1/3" PAL	520/570 TVL	0.3 / 0.04 Lux	90 mA	Ø140 mm	AI, VF, True Day/Night	<b>VRD135/90CHVAIT</b>
TDN	1/3" PAL	520/570 TVL	0.3 / 0.04 Lux	180 mA	Ø140 mm	AI, VF, TDN, Infrared LEDs	<b>VRD135/90CHLVAIT</b>

To discuss options listed above, please call the Sales Office.



For critical viewing applications additional lighting may be required



### A. OSD MENU ENTRY

- Press CENTRE key for 3 seconds

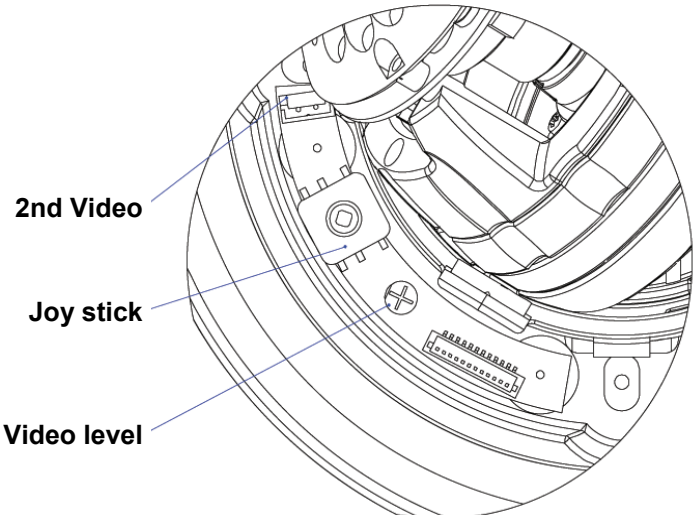
### B. OSD MENU EXIT

- Press EXIT Menu to exit Main Menu
- If Press Set Key for 3 seconds from Main Menu appears.

In this case, just press Set Key.

### C. 'SAVE' and 'QUIT'

- Left or Right Key - Select Menu
  - Up or Down Key - Return to Menu
1. Press the SET key to access the main setup mode.
  2. Select the desired feature using the UP or Down key.
  3. Change the status of the selected feature using the LEFT or RIGHT key



## MAIN MENU

### A. VIDEO MODE

- NTSC or PAL: User can choose either NTSC or PAL.

### B. SETUP ID

- DISPLAY ID
  - ON :The ID name will be displayed in the monitor.
  - OFF : The name will not be displayed in the monitor.
- CAMERA ID : You can use up to 12 characters.
- ID POSITION : Select on screen position of the camera ID.

### C. LENS

- MANUAL : Use when using Manual lens.
- DC : You can control the brightness of the screen and adjust the desired DC level from 10 to -40.

### D. WDR

- WDR (Wide Dynamic Range) : You can adjust the desired WDR level from 20 to -20.

### E. WB CONTROL

- ATW (Auto Tracking White Balance) : The camera automatically controls white balance in any environment.
- AWB (Auto White Balance) : The white balance is automatically adjusted in a specific environment.
- MANUAL : User can adjust the colors by adding or reducing the WB level.  
You can adjust the desired WB level from 2,500K to 9,500K

### F. AGC

- ON : Activates automatic gain control feature.  
You can adjust the desired AGC level from 0 to 38dB.
- OFF : Deactivate automatic gain control feature.

### G. LOW LIGHT

- SLOW SHUTTER : Control Image brightness by adjusting shutter speed
  - AGC : shutter speed setting( Range 28 to 48)
  - MAX FIELD : Shutter open from Min. x2 to Max. x32 field accumulation period.
- B&W SS (Black and White Slow Shutter)
- GAIN : To adjust picture brightness.

### H. SYNC

- INTERNAL : Internal synchronization
- LINE LOCK : Phase adjustment may be necessary in multiple camera installations to prevent picture roll  
when switching between cameras

### I. EXIT MENU

- EXIT NO CHANGES : No change
- SAVE NEW AND EXIT : Save changes
- RESTORE FACTORY SETTINGS : Factory default
- SW REV

### J. PREVIOUS PAGE

- PREVIOUS PAGE : Return page

