

**PRODUCT SAFETY**

This camera range is designed for use in general purpose CCTV applications and has no other purpose. Only operate your camera between the temperatures of -10°C and +50°C. Do not operate your camera outside its specified power supply range. Cameras must only be used in clean, dry, dust-free environments unless housed in suitable protective housings to IP65 or better.

**⚠ WARNING**

In order to avoid damaging the camera note the following points:

1. Installation and servicing is only to be carried out by suitably qualified and experienced personnel.
2. Only power cameras from the power supply provided.
3. Do not touch the image-surface of the sensor. If the sensor is accidentally touched, only clean it using isopropanol.
4. Do not expose the camera sensor to very bright light over a long period of time as this may cause damage to the CCD. The camera and lens set-up must be correct to avoid continual over-exposure to bright light.
5. For outdoor use, an appropriate protective housing conforming to IP65, UL50 or better must be used.

**ELECTROMAGNETIC COMPATIBILITY (EMC)**

**⚠ CAUTION**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This product is intended solely for use in general CCTV applications.

The product must be installed and maintained in accordance with good installation practice to enable the product to function as intended and to prevent problems. Refer to Norbain SD Limited for installation guidance.

**MANUFACTURER'S DECLARATION OF CONFORMANCE**

The manufacturer declares that the equipment supplied with this manual is compliant with EMC directive 89/336/EEC, CE Marking Directive 93/68/EEC. Conforming to BSEN55022:1998 Information technology equipment CLASS A, BSEN 50130-4:1996 Alarm systems-Part 4, and all amendments.

**UNPACKING**

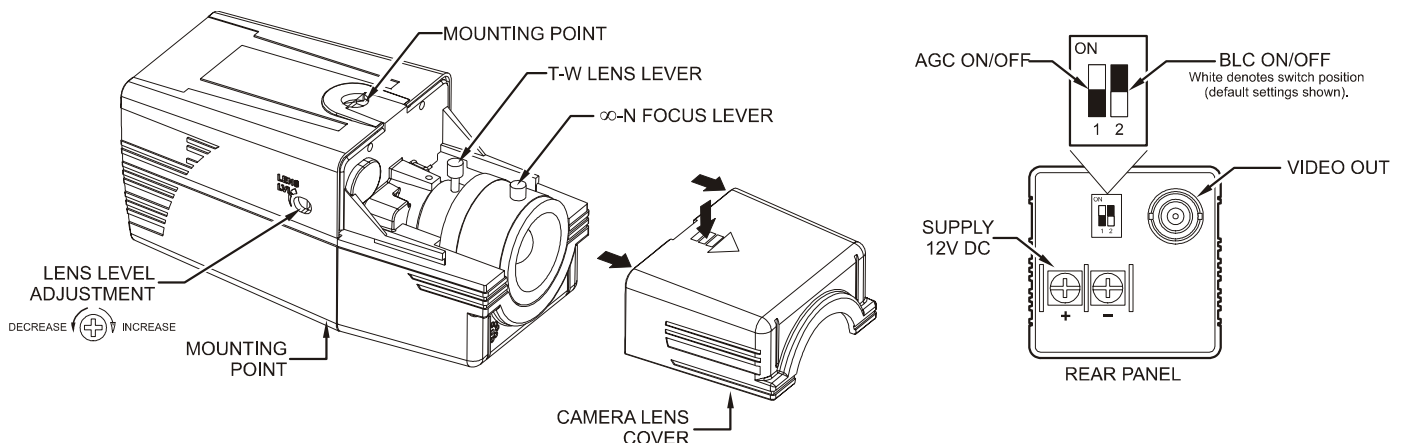
Keep your packaging for use if the product is to be stored for an extended period or needs to be returned for any reason. The packaging should contain:

- A Vista Kit Camera with an integrated DC lens
- 12V DC power supply
- 2 BNC to coaxial connectors
- Camera mounting bracket
- Two fixing screws
- Installation instructions

Check the product code on the serial number label. If you have an incorrect item or it is damaged then inform the suppliers and carriers immediately. If this is the case then do not attempt to use the equipment.

**CONTROLS AND SWITCHES**

The diagram below shows the location and function of the controls and switches.



**Mounting**

Two 1/4" 20 UNC mounting points are provided for mounting the camera, one on the top of the case and one on the bottom of the case. Mount the supplied camera bracket in the desired position using the correct fixings for the surface. The camera is supplied with two fixing screws. Once the bracket is fixed, mount the camera and point it at the desired scene. Once the camera is viewing the correct scene, it should be locked into position with the bracket locking screws.

**Power Connection**

The camera should be powered using the 12V DC power supply unit provided. Observe the correct polarity when connecting the power, as indicated on the rear of the camera.

To avoid possible short circuits, the power should remain off until all required connections have been made.

**Lens Level Adjustment**

When setting the lens level, the AGC function (SW1) should be switched **OFF**. The lens level potentiometer is used to vary the DC reference voltage controlling the lens. The potentiometer has the effect of increasing or decreasing the lens aperture and should be adjusted to obtain a 1V pk-pk setting. When making adjustments, it is best to start with the potentiometer set fully clockwise so that the video signal is overexposed, then, gradually decrease the level until the setting is correct.

When the lens level is set correctly, the AGC function can be switched **ON**.

**Focusing**

The camera back-focus is pre set to a position that allows optimum performance through the lens focal range.

The lens adjustment levers are located under the camera lens cover. Remove the cover by pushing down gently and sliding it in the direction indicated by the arrow on the cover itself. To adjust the lens, loosen and then adjust the T-W lens lever to produce the desired angle of view for the scene. Tighten the lever once adjustment is complete.

Whilst setting the angle of view, it may also be necessary to make primary focus adjustments. To do this, loosen and then adjust the ∞-N focus lever until the sharpest possible image for the area of interest is achieved. Tighten the lever once focus adjustment is complete.

CONFIGURATION

On the rear of the camera, there are two configuration switches:

**BLC on/off**

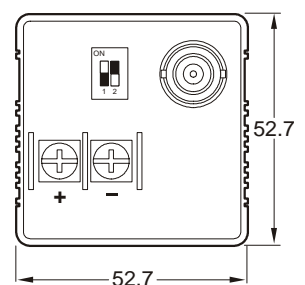
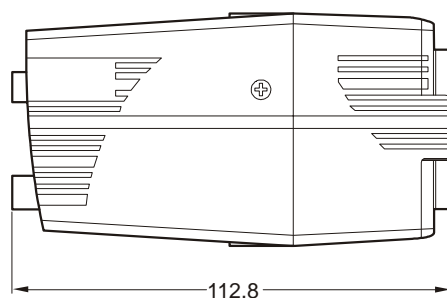
The BLC (Back Light Compensation) facility compensates for back-lit scenes by enhancing the exposure of objects within the BLC sampling area (see figure below). These objects would previously have been in silhouette. Select **ON** or **OFF** using the BLC switch (SW2). Default is **OFF**.

**AGC on/off**

The AGC (Automatic Gain Control) facility can improve picture quality when levels of illumination are low. Select **ON** or **OFF** using the AGC switch (SW1). For most applications, the AGC facility should be **ON** and is therefore the default setting.

SPECIFICATIONS

Option	NCD635CKe	NCD735CKe	NCL635CKe	NCL735CKe
Mono	●	●		
Colour			●	●
Resolution (TVL)	380	570	330	470
Sensitivity (lux @ f1.2)	0.1	0.2	1.0	1.2
CCD Sensor size	1/3"	1/3"	1/3"	1/3"
Scanning system PAL			●	●
Scanning system CCIR	●	●		
Digital Signal Processing (DSP)			●	●
Auto White Balance			●	●
Automatic Gain Control (AGC) on/off	●	●	●	●
Backlight Compensation (BLC) on/off	●	●	●	●
Integrated Direct Drive Auto-Iris Lens	●	●	●	●
Internal Synchronisation	●	●	●	●
<b>Supply</b>				
12 VDC +15%, -10%	●	●	●	●



BLC SAMPLING AREA

