

Instruction Manual

B&W Smoke-Detector Hidden Camera

VK-1322/SMD



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1. Safety Instructions

- Read these safety instructions and the operation manual first before you install and commission the camera.
- Keep the manual in a safe place for later reference.
- Contact your local dealer in case of malfunction.
- Protect your camera from contamination with water and humidity to prevent it from permanent damage.
Never switch the camera on when it gets wet. Have it checked at an authorized service center in this case.
- To disconnect the power cord of the cameras, pull it out by the plug.
Never pull the cord itself.
- Do not open the camera housing.
Maintenance and repair have to be carried out only by authorized service centers.
- Operate the camera only at a temperature range of -10°C to +50°C and at a humidity of max. 90%.
- The camera is equipped with an automatic gain control (AGC) which increases the sensitivity at low light levels.
Noisy pictures at these conditions are quite normal.
- Pictures including bright spotlights will cause perhaps vertical lines (smear) or soft edges (blooming) on the monitor display. This happens most probably in automatic shutter mode (AES).
This is not a defect but an effect caused by the CCD sensor.

- Use only a mild detergent to clean the housing.
Never use dilution or gasoline for this can cause permanent damage to the surface.

The cameras should never:

- be operated beyond the technical specifications. This can lead to destruction.
- pointed with open iris towards the sun. (This can damage the sensor).

Note: This is a class A digital device. This digital device can cause harmful interference in a residential area; in this case the user may be required to take appropriate corrective action at his/her own expense.

2. Description

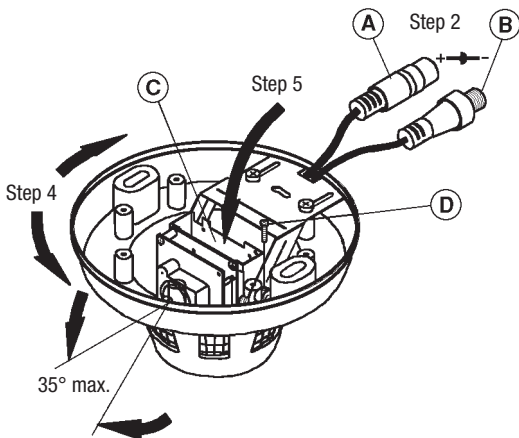
This B/W (Colour) Smoke-Detector Hidden Camera uses a high sensitive 1/3" interline transfer CCD Image Sensor (CCD = Charge Coupled Device), and all state circuitry which provides extremely long life and high reliability.

This Camera offers excellent image quality and functions with low lag and high burn resistance, and is not subject to distortions from magnetic fields.

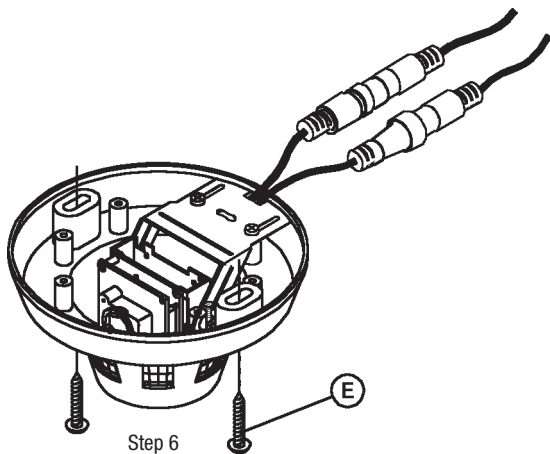
Highly resistant to shock and vibration and easy to install, this Camera is an excellent choice for your B/W CCTV system.

3. Installation

1. Select a location in the ceiling where you want to install the camera unit.
2. Connect the cables as follows: 12VDC to **A** , Video Out to **B**. (Ref. Figure below)
3. With your hand, position the camera unit so the camera is aimed toward the area to be observed.
4. While holding the unit in position, re-check the camera's horizontal sighting to ensure the unit's position is correct as placed in Step 1. (Ref. Figure below)
5. If it is necessary to adjust the vertical view angle, do the following - Loosen screw **D** with a screwdriver. Turn the Camera Board **C** to the desired angle (you may use a portable monitor or communicate with the Master Control Room to make sure the view angle is correct).
Tighten screw **D** to secure the vertical view angle. (Ref. Figure below)



6. To secure the unit in the location selected in STEP 1, tighten the screws **E** in the holes as shown in Figure below.

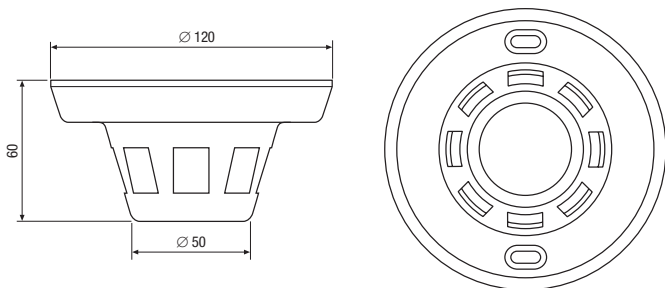


4. Specifications

Model	VK-1322/SMD
EDP No.	91988
Imager	1/3" Sony Super HAD Interline Transfer CCD
Picture elements	Approx. 440,000 (H) 752 x (V) 582
System	CCIR
Synchronization	Internal
Sensitivity	0.65Lux at F2.0 / 0.23Lux at F1.2 (VT measured result)
Horizontal resolution	600 TV lines
Signal-to-noise ratio	48dB (AGC OFF)
Automatic gain control (AGC)	Supplied
Automatic shutter control (AES)	1/50 ~ 1/100,000sec.
Gamma correction	0.45
Lens	F2.0/3.7mm pinhole
Horizontal angle of view	68°
Vertical tilt range	0° ~ 35° (ceiling as reference)
External connections	Video (BNC), 12VDC (DC socket)
Video output	1Vp-p, VBS, 75ohms
Supply voltage	12VDC ±10%
Power consumption	1.4watts
Temperature range	-10° ~ +50°C
Housing	Plastic
Mounting	Wall and drop ceiling mount
Colour	Light grey
Dimensions	See drawing
Weight	110g

Accessories	
EDP No.	Description
70447	Plug-in Power Supply Unit 100-240VAC
77772	PSU 12VDC/0.5A, Regulated, Desktop
77779	Plug-in Power Supply Unit 230VAC/12VDC

5. Dimensional Drawings



Dimensions: mm



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