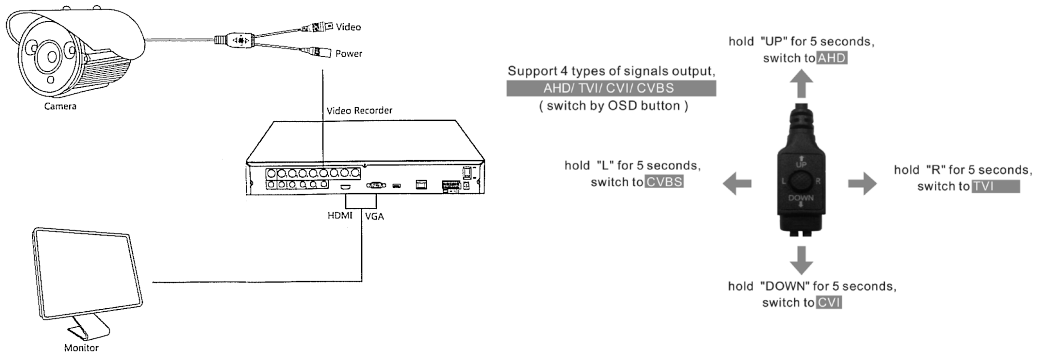
Fixed Dome Camera

Features:
> **Auto Gain Control (AGC):** The color camera sensor can capture a high definition picture in low lux conditions.
> **Auto Electronic Shutter (AES):** AES speed can reach 1/100,000s.
> **Gamma Characteristic:** 0.45.
> **Scanning Mode:** NTSC or PAL.
> **Joystick / Toggle:** Please remember to remove the plastic cap covering the toggle before attempting to make camera menu adjustments. Replace the cap for safety reasons when adjustments have been made and saved.

In the Box: *1x Camera with removable dust cover, Drill template, Mounting hardware, Camera Installation Guide, Operating Instructions*

Thank you for purchasing this 4-in-1 camera, which incorporates the latest technology for the built-in sensor chip and driver. The camera is capable of high definition video resolution, and produces a stable image with rich real colour that is resistant to interference. Each camera is easily mounted and includes fixtures suitable for all surfaces. It will work with virtually any CCTV system capable of AHD / CVI / TVI / CVBS digital video.

Device Connection/ Joystick Diagram



Joystick
This is a 4-in-1 camera with AHD/CVI/TVI/CVBS modes. The joystick has two layers of functionality. Firstly, it is a cursor control button that enables the user to scroll Left and Right, Up and Down through the on-screen menu interface. Use the joystick to navigate camera menus in order to select functions in a list, and depress the joystick (like an enter key) to activate.

Secondly, the joystick enables the user to toggle between the different video modes of the camera. Press and hold the joystick in any cursor direction for five seconds to change the mode. The different modes are activated from the directions shown in the diagram. Here is the summary of the available modes, working clockwise with the diagram markers as shown:

Safety Instructions

1. Before applying power to the camera, please read this manual. Retain it for future reference.
2. The user is advised to seek the services of professional installer to set up a complete CCTV system. Please follow the manufacturer's instructions in respect to setting up cameras.
3. In order to prevent sensor damage, do not expose the lens to any intense direct light source for an extended period. Please affix the dustproof cover when the camera is not being used.
4. If a user ventures to open and partially dismantle the camera, perhaps to reset it or add an SD Card where the slot exists on the camera's PCB, do not touch sensor directly.
5. Please use a dry soft cloth to clean the camera. If dirt is difficult to clean, use a mild detergent with water and wipe dry the camera.
6. Do not install a camera under an air conditioner's air vent. Cold air may cause condensation on the lens which will potentially blur the camera's view. Hot air may also cause problems. Do not mount the camera near any radiator or heater, or cooler for that matter.
7. When transporting or storing the camera, please ensure that the environment remains within the allowable range of temperature and humidity. See specifications for the correct data.
8. CAUTION: If the camera is damaged or broken, do not disassemble the camera in an attempt to fix it. If the camera stops working, please contact a reseller who can provide technical support.

Note:
• The power supply must pass safety certification for the country wherein the equipment was purchased. The power supply output voltage, current, voltage polarity must match the requirements of the equipment to which the camera is connected.
• Please install lightning protection devices or cut off the power in stormy weather conditions.
• To capture high-quality video and clear pictures, please make sure the network connection is stable and mains power supply is reliable.

Common Problems and Troubleshooting

Problem	Solution
No picture after providing power	Please check the power supply voltage and polarity for any abnormality. Please check all connecting cables and monitors that form part of the CCTV set up.
The picture displays interference ripples	This may be caused by variations (ripples) in the AC power supply. You will need to examine the power supply's sinusoidal waveform. Also check the monitor and peripheral equipment with the CCTV system.
The picture background colour changes continuously	A fluorescent lamp's electromagnetic field can cause colour waves in some cameras that are in close proximity. To reduce this effect, position the fluorescent lamps and cameras at a greater distance from each other. Alternatively, use an external power supply for cameras.
The picture is blurred and indistinct	The power supply's voltage may be unstable. Cables might not be connected correctly or have high impedance.

Note: Avoid deploying the camera in environments with too high or too low temperatures. The maximum range is -30°C to +60°C, but the recommended range is stated in the specifications

Specifications

Model	S 9120G
Image Sensor	1/2.9" SONY CMOS Sensor
Resolution	2MP
Signal System	PAL/NTSC
Minimum Illumination	0.01 Lux/F1.2
S/N Ratio	More than 50 dB
Scanning System	Progressive Scan
IR Distance	20M
IR Power On	CDS Auto Control
Video Output	CVBS I CVI I TVI I AHD
Power/Current	DC12V(+/-1 0%)/550mA
Lens	Board Lens 3.6mm
Weather Proof	IP66
Dimension (mm)	94 (D) x 69 (H)
Weight (g)	400
Operating Conditions	-10-+50°C RH95% MAX