1/3" B/W Varifocal CCD Dome Camera
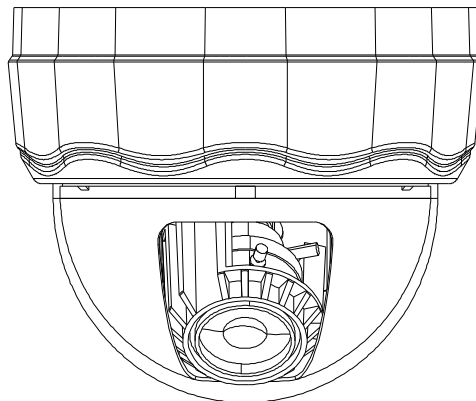
Smartec STC-1501

USER'S MANUAL

FEATURES

1. Long life and high reliability are achieved by the use of a CCD image device. This makes the camera 100% solid state. An image tube is no longer needed.

2. Built-in aspherical lens.

3. Lower power consumption.

4. No focus shift in the nighttime.

5. Relatively no interference from magnetic or electrostatic field.

6. Ease of use in any application is achieved through the small shape.

7. The Minimum Illuminations: 0.05Lux@F1.2

8. Resolutions: 580TVL

CAUTIONS

1. Never point the camera toward the sun
 Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care
 Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment

This camera is designed for indoor use. The allowable temperature range for operation of this camera is between -10˚~50˚ and the allowable humidity is 85%RH maximum.

4. Clean the front face to the pick-up device

It is recommended that the pick-up device surface be cleaned before lens installation or whenever the lens is changed. Cleaning should be done by using a chamois□a very fine soft cloth□lens tissue or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage

The power source voltage should be within the specified range. (Camera must meet the specifications).

6. Objects and liquid entry

Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7.Servicing

Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

- When the power supply cord or plug is damaged.

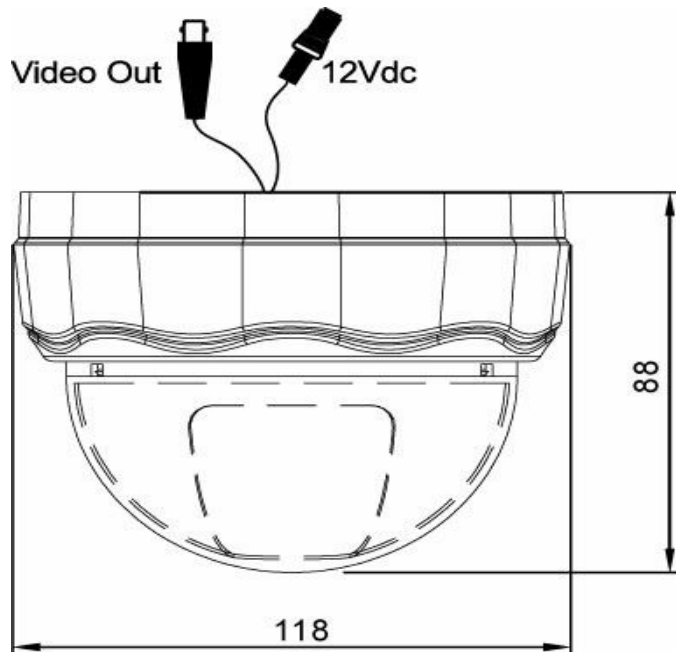- If liquid has been spilled, or objects have fallen into the

video product.

- If the video product has been exposed to rain or water.

- If the video product has been dropped or the cabinet has been damaged.

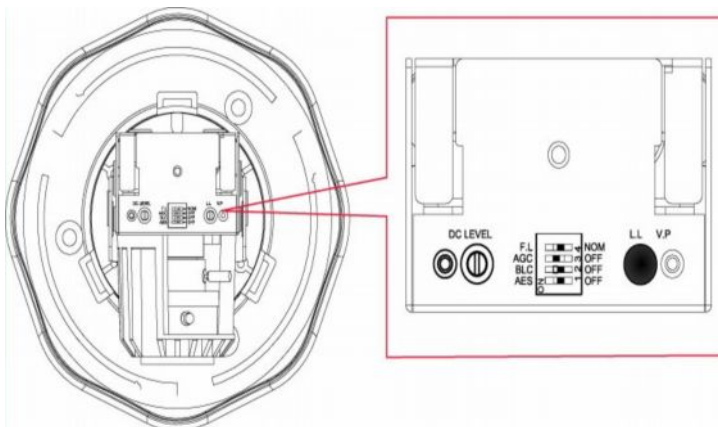- When the video product exhibits a distinct change in performance.

SPECIFICATIONS

TV system	CCIR	EIA
Image Sensor	1/3" Sony CCD	
Total Pixels	795(H)×596(V)	811(H)×508(V)
Video Output	1.0Vp-p composite/75Ω(BNC connector)	
Resolution	580TVL	
Minimum Illumination	0.05Lux/F1.2	
S/N Ratio	48dB or More	
Synchronizing System	Internal	
A.E.S.	ON/OFF	
B.L.C		
A.G.C		
Flickerless		
Gamma Correction	0.45	
Lens/Angle of view	Standard : f2.9mm-10mm/F1.2 Aspherical Auto Iris Lens /94.6°~28.8° °	
Power Supply	12Vdc	
Power Consumption	1.6W	
Operation Temperature	-10°C ~ +50°C	
Storage Temperature	-20°C ~ +60°C	
Storage Humidity	Maximum:85%RH	
Weight	300g	
Dimensions	118(DIA) × 88(H) mm	

DIMENSION

NOMENCLATURES AND FUNCTIONS

1. FAR/NEAR

2. WIDE/TELE

3. DC LEVEL

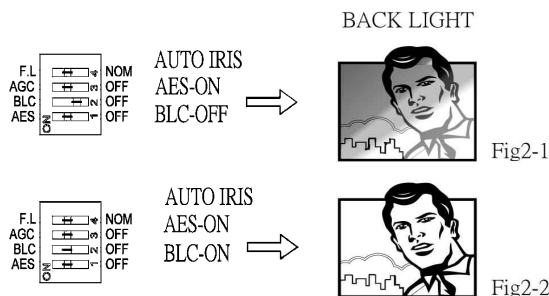- The VR for adjusting the IRIS level of Auto Iris Lens.

4. SWITCHES

(1). AES/OFF
   AES : Automatic Electronic Shutter. The range of shutter speed from 1/60sec.(1/50sec.) to 1/100,000sec.. This mode is employed for using a manual iris lens.
   OFF : AES OFF. The shutter speed is 1/60sec. (1/50sec.).

When an auto iris lens is applied, AES should be off.

BACK LIGHT

AUTO IRIS
AES-ON
BLC-OFF

Fig2-1

AUTO IRIS
AES-ON
BLC-ON

Fig2-2

(2). BLC/OFF
BLC : Backlight Compensation. When the object is dark by strong light (sunlight etc….) as (Fig.2-1), please turn on BLC.
OFF : BLC OFF.

(3). AGC/OFF
AGC : Automatic Gain Control. The level of gain Varies from 0 to 26dB.
OFF : AGC OFF. The level of gain is fixed at 0dB.

(4). FL/NOM
FL : Flickerless. In FL mode, the shutter speed is 1/100sec. (NTSC system) / 1/120sec. (PAL).
If choose FL mode, [AES] switch should be off.
NOM : Normal position.
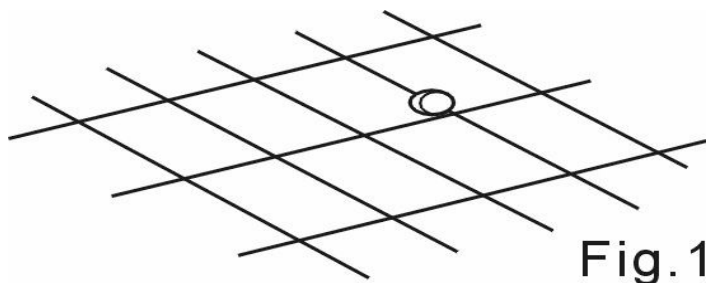
CAMERA MOUNTING

Fig.1

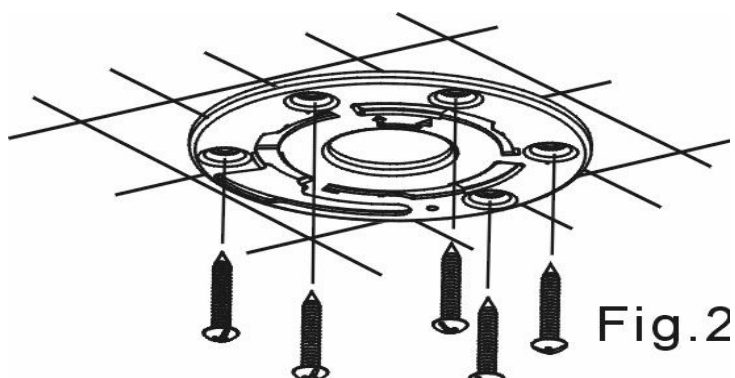Drill 20mm(3/4") hole on the ceiling as installation template. (see Fig.1).

Fig.2

Fix the mounting plate onto the ceiling as installation template shown holes position. (see Fig.2).
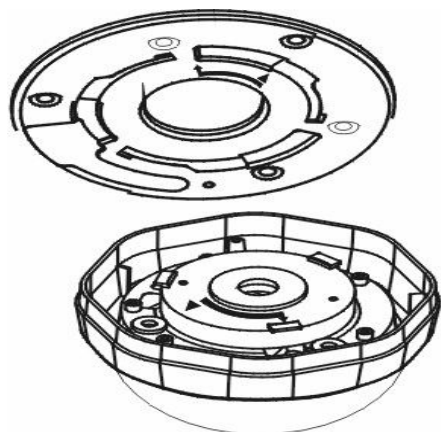

Fig.3

Fix the dome camera body onto the mounting
Plate. (see Fig.3).

⚠ The ↰ on bottom of dome camera body should be put in
the same way on mounting plate then turn right to make sure it
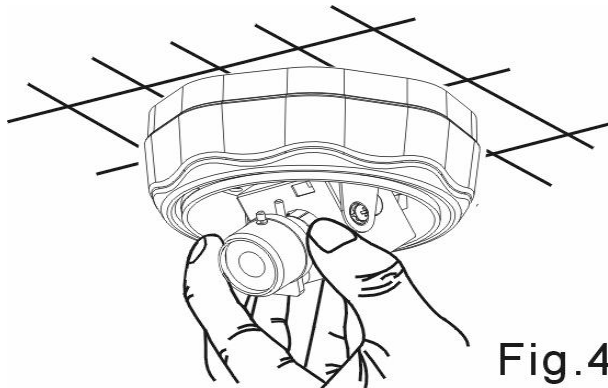is fixed properly.

Fig.4

Adjust PAN/TILT position and FAR/NEAR & WIDE/TELE bar
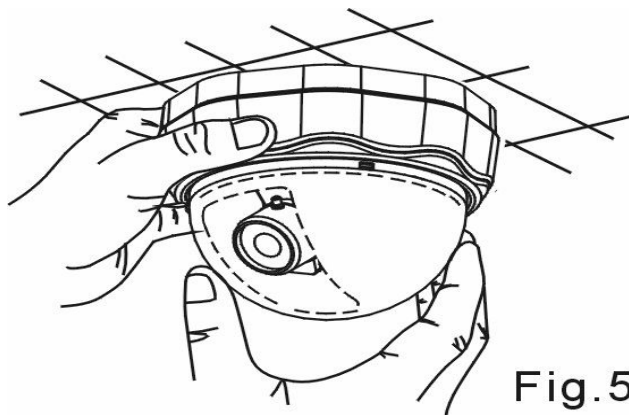to get the mounting picture. (see Fig.4).

Fig.5

Put the cover on to finish the installation. (see Fig.5).