Thank you for choosing our high quality camera. Before attempting to connect or operate, please read and follow these instructions.

**IMPORTANT SAFETY INSTRUCTION**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**CAUTIONS**

- **Correct Disposal of This Product**
  - (Waste Electrical & Electronic Equipment)
  - (Applicable in the European Union and other European countries with separate collection systems)
  - This marking shown on the product or its literature, indicate that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
  - This product should not be mixed with other commercial wastes purchased this product, or their local government office, for details of where and how they can take it for environmentally safe recycling.
  - Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take item for environmentally safe recycling.
  - Business users should contact their supplier and check the terms and conditions of the purchase contract.
  - This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
  - This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

**COMPONENTS**

- **Square Camera**
- **Operation Manual**
- **Mounting Bracket**
- **Screw**
- **Cable**

**MOUNTING POSITION**

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

In USA and Canada, Use Class 2 Power Supply Only.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note -
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING** -
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.

Caution -
Any changes or modifications in construction of this devise which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

1. A regulated DC12V 300mA power supply is recommended for use with this camera for the best picture and the most stable operation.
2. It is recommended that the camera is used with a monitor that has a CCTV quality 75 video impedance level. If your monitor is switched to high impedance then please adjust accordingly.
3. Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to your dealer.
4. Never face the camera towards the sun or any bright or reflective light, which may cause smear on the picture and possible damage to the CCD.
5. Do not remove the serial sticker for the warranty service.
### CONNECTION

- **Yellow (Video Out)**
- **Black (GND)**
- **Red (DC+12V)**

#### Lead Wire Connection

- **(DIY CABLE CONNECTION)**

#### Lead Wire Connection

- **(DIY CABLE CONNECTION)**

### Dimensions

<table>
<thead>
<tr>
<th>Unit (mm)</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24.7</td>
<td>22.4</td>
</tr>
</tbody>
</table>

### OSD Menu Structure

**Main Menu**

- **Auto**
  - **High Lumiance**
    - **Mode**: BRIGHTNESS (-200 ~ -255)
  - **Low Lumiance**
    - **Mode**: BRIGHTNESS (-25 ~ -1, -50 ~ -5)

**Shutter/AGC**

- **Manual**
  - **Shutter**
    - **1/50(Pal), 1/100(Ntsc)**
  - **AGC Mode**: BRIGHTNESS (-25 ~ -1, -50 ~ -5)

**Return**

- **Speed**: (-200 ~ -255)
- **Delay Ctrl**: (-200 ~ -255)
- **ATW Frame**: H: 50 x 100, V: 50 x 200
- **Return**

**White Balance**

- **Push**
  - **Gain**: (-200 ~ -255)
  - **Return**
  - **User1**: (-200 ~ -255)
  - **User2**: (-200 ~ -255)

**Anti CR**

- **Manual**
  - **Level**: NTSC: (27 ~ 103), PAL: (27 ~ 115)

**Return**

**Pic Adjust**

- **ATR**
  - **On**: LOW, MID, HIGH
  - **Contrast**: LOW, MID, HIGH, MID, HIGH
  - **Gain**: LOW, MID, HIGH

**Return**

**Motion Det**

- **On**: 1/4, 1/2, 3/4, 4/4
  - **Left**: NTSC: (000 ~ 244) / PAL: (000 ~ 244)
  - **Right**: NTSC: (000 ~ 288) / PAL: (000 ~ 288)

**Return**

### Specification

**Signal Format**

- **NTSC**: SONY SUPER HAD CCD II
- **PAL**: SONY EXview HAD CCD II

**Scanning System**

- **H**: 15.734KHz, V: 59.94Hz
- **H**: 15.625KHz, V: 50Hz

**Total Pixels**

- NTSC: 537(H) x 505(V)
- PAL: 527(H) x 555(V)

**Effective Pixels**

- NTSC: 510(H) x 492(V)
- PAL: 500(H) x 582(V)

**H Residence**

- NTSC: More than 48dB (AGC Off)
- PAL: More than 50dB (AGC Off)

**Gamma**

- NTSC: 0.45
- PAL: 0.45

**Scanning System**

- Internal

**Video Output**

- **1.0 Vp-p Composite (75Ω)**

**Operating Temperature**

- 14°F ~ 140°F (-20°C ~ +60°C)

**Storage Temperature**

- -4°F ~ -12°F (-20°C ~ -60°C)

**Humidity**

- Less than 80%

**Product Size**

- 23mm x 22mm (H x W)

**Power Consumption**

- DC 12V (±10%) Max 60mA
- DC 12V (±10%) Max 70mA

*Important Note:*

- Changes to the camera settings must be saved prior to exiting the OSD menu.
- All changes will be discarded.

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**Important Note:** Specifications and designs are subject to change for improving the functionality of this product without notice.