# ■ Specification

| Model | ZVH80S70 |
|---|---|
| Pick up Element | 1/3" SONY Super HAD CCD II |
| Effective Picture Elements (H×V) | PAL: 976(H)×582(V)　NTSC: 976(H)×494(V) |
| Horizontal Resolution | 700 TV Line |
| Minimum Illumination | 0.001 Lux |
| S/N Ratio | More than 52dB |
| Scanning System | 2:1 interface |
| Synchronous System | Internal, Negative sync. |
| Auto Electronic Shutter | NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s |
| Gama Characteristic | 0.45 |
| IR Distance | 80 Meters (with ∅42X4PCS Infrared LED) |
| IR Status | Under 10Lux by CDS |
| IR Power On | CDS AUTO Control |
| Video Output | 1Vpp, 75Ω |
| Auto Gain Control | Auto |
| UTC | YES |
| Power/Current | DC12V(+/-10%)/1500mA |
| Lens | 6-22mm Manual Zoom Lens |
| Dimension (mm) | 230(W)x180(H)x115(D)mm |
| Weight (g) | 2500 |
| Storage Temperature | -50~+60℃　RH95% MAX |
| Operating Temperature | -40~+50℃　RH95% MAX |

# ■ Packing List

| No | Name | Model | Number |
|---|---|---|---|
| 1. | Weatherproof IR Color Camera | ZVH80S70 | 1 |
| 2. | User Guide | ZVH80S70 | 1 |

Franchiser：

RoHS　CE　FC

# ZVH80S70 Color Camera

ZEBRA

## Weatherproof IR Color Camera



**Notes**：**Before providing power for the camera, please read this User Guide in detail!**

Do not attempt to disassemble the camera. If the camera can not work, please contact local franchiser or our company.

# ■ BRIEF OF PRODUCT

* **Sensor（CCD）**
  Adopt 1/3" SONY Super HAD CCD Ⅱ Sensor.

* **Auto Gain Control (AGC)**
  Built-in auto gain control **(AGC)** circuit. The color camera can get high definition picture in low Lux condition.

* **Scanning Mode**
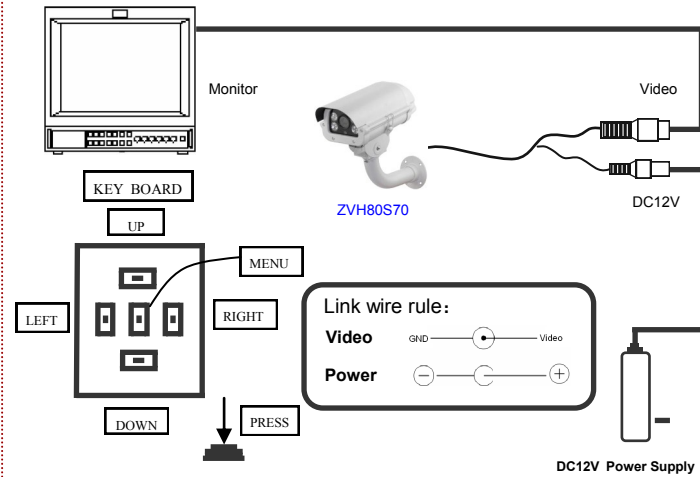  NTSC or PAL mode.

* **Water Resistance**
  IP66.

* **UTC**
  Up The Coax

* **OSD SETTING**

| OSD SET | LENS | | MANUAL | |
|---|---|---|---|---|
| | | AUTO | TYPE:DC/VIDEO | |
| | | | MODE:CLOSE/AUTO/OPEN SPEED:0-255 | |
| | SHUTTER/ AGC | AUTO | HIGH LUMINANCE MODE:SHUT+AUTO IRIS/AUTO IRIS | |
| | | | BRIGHTNESS:0-255 | |
| | | | LOW LUMINANCE MODE:OFF/AGC | |
| | | | BRIGHTNESS: ×0.25, ×0.5, ×0.75, ×1 | |
| | | MANUAL | MODE:SHUT+AGC | |
| | | | SHUTTER:1/50,1/120,1/250,1/500,1/1000,1/2000, 1/4000,1/10000 | |
| | | | AGC:6,12,18,24,30,36,42,44.8 | |
| | WHITE BAL | ATW | SPEED/DELAY CNT/ATW FRAME/ENVIRONMENT | |
| | | PUSH/ANTI CR/PUSH LOCK/USER1/USER2/MANUL | | |
| | BACK LIGHT | OFF/BLC/HLC | | |
| | PICT AD-JUST | MORROR/BRIGHTNESS/CONTRAST/SHARPNESS/HUE/GAIN | | |
| | D-WDR | OFF | | |
| | | ON | LUMINANCE/CONTRAST | |
| | MOTION DET | OFF | | |
| | | ON | DETECT SENCE/BLOCK DISP/MONITOR AREA/ AREA SEL/TOP/BOTTOM/LEFT/RIGHT | |
| | PRIVACY | OFF | | |
| | | ON | AREA SEL/TOP/BOTTOM/ LEFT/RIGHT/ COLOR/TRANSP/MOSAIC | |
| | DAY/NIGHT | COLOR | | |
| | | B/W | BURST:OFF/ON | |
| | | | IR OPTIMIZER:OFF/ON | |
| | | | MODE:AUTO/CENTER | |
| | | | LEVEL:0-30 | |
| | | AUTO | BURST:OFF/ON | |
| | | | DELAY CNT/DAY-NIGHT/NIGHT-DAY | |
| | NR | NR | MODE:Y/C,OFF,Y,C | |
| | CAMERA ID | OFF/ON | | |
| | SYNC | INT | | |
| | LANGUAGE | ENGLISH/CHINESS/JAPANESS/ESPANOL/PORTUGUES/ PYCCKNN/FRANCAIS/DEUISCH | | |
| | CAMERA RESET/BACK/EXIT/SAVE ALL | | | |

# ■ CONNECTING



Monitor

KEY BOARD

UP

MENU

LEFT

RIGHT

DOWN

PRESS

ZVH80S70

Video

DC12V

**Link wire rule：**

Video    GND ——●—— Video

Power    (−) —— (−) —— (+)

**DC12V Power Supply**

## TROUBLE AND SOLUTION

**1. No picture after providing power**
 . May be the power supply voltage abnormity, please check the power supply voltage and pole whether exactitude.
 . Please check all the connecting cable and monitors whether be connected correctly or not.

**2. The picture level direction have flowing interference ripples**
 . May be caused by the power supply AC ripples, it need filter the wave of the power supply.
 . Check the monitor and peripheral equipments used.

**3. The picture background color changes continuously**
 . The fluorescent lamp's electromagnetic field cause color roll. This is proper phenomenon of the cameras.
 . Reduce the fluorescent lamp numbers or increase the distance between the camera and the fluorescent lamps can improve it.
 . Use power supply external sync. camera can solve it.

**4. The picture smear too mass**
 . The power supply's voltage unstable.
 . Connecting cables not connect correctly or have high impedance.

⚠ **Notes：**

●The power supply must through safe attestation. Its output voltage, current, voltage polarity and operating temperature must match the camera's requirement.

●When using the camera in the thunderbolt condition, please note to mount Anti-thunder device or put off the power supply plug and cable.

●In order to capture high quality pictures, the power supply's cable and video output cable should not be too long.

# ■ INTRODUCTION

 Congratulations on your purchase of this product. This User Guide suits ZVH80S70 product. We adopt the latest SONY technical of sensor and driver. The most attractive characteristics are small and easy hidden, suits the elevator and corridor. In addition, it owns the characters of high definition and stability, strong anti-jamming, rich and real color. Fixing and using this model are convenient too. It is very good for you to apply to your CCTV system.

 Please read this instruction manual carefully to ensure proper use of the product.

⚠ The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) Instructions in the literature accompanying the appliance.

⚡ The 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.

| ⚠ | **CAUTION:** RISK OF ELECTRIC. DO NOT OPEN | ⚡ |
|---|---|---|

**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO OUALIFIED SERVICE PERSONNEL.

**CAUTION:** TO PREVENT ELECTRIC SHOCKS AND RISK OF FIRE HAZARDS, DO NOT USE OTHER THAN SPECIFIED POWER SOURCE.

⚠ **Note：**

● Please note the camera's operating temperature and its using environment requirement. Avoid using the camera at too high or too low temperatures. The operating temperature is −50~+60℃. (Recommendatory operating temperature is −40~+50℃.)

● Never make the camera face the sun or bright object. Otherwise, it will damage the CCD.

● Do not mount the camera near by the radiator or heater.