<u>SENTECH</u>

STC-N632 / N632CS / N632L STC-P632 / P632CS / P632L Product Specification

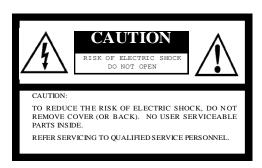
NTSC / PAL (Color / High Resolution)
Board Type CCD Camera



www.avsupply.com



Safety Precautions





The lightning flash with arrowhead symbol, within an equilateral triangle, 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.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, I.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For Canada

For U.S. A

Warning:

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications,

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Product Precautions

- Handle the camera with care. Do not abuse the camera; avoid striking or shaking it. Improper handling
 or storage could damage the camera.
- Do not pull or damage the camera cable.
- During camera use, do not wrap he unit in any material. This will cause the internal temperature of the unit to increase.
- Do not expose the camera to moisture, or do not try to operate it in wet areas.
- Do not operate the camera beyond its temperature, humidity and power source ratings.
- While the camera is not being used, keep the lens or lens cap on the camera to prevent dust or contamination from getting in the CCD or filter area and scratching or damaging this area.
- Do not keep the camera under the following conditions:
 - In wet, moist, and high humidity areas
 - Under hot, direct sunlight
 - In high temperature areas
 - Near an object that releases a strong magnetic or electric field
 - Areas with strong vibrations
- Use a soft cloth to clean the camera. Use pressured air spray to clean the surface of the glass. DO not scratch the surface of the glass.



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I. Specifications

A. Electronic Specifications / Mechanical Specifications / Environmental Conditions

| Product | | STC-N632 | STC-P632 | | |
|----------------|---------------------------------|---------------|---|----------------------------------|--|
| Electronic | | | 1/3" Interline NTSC CCD: | 1/3" Interline PAL CCD: ICX639AK | |
| Specifications | Imager | | ICX638AK (Sony) | (Sony) | |
| | Active Picture E | lements | 768 (H) x 494 (V) | 752 (H) x 582 (V) | |
| | Chip Size | | 5.59 (H) x 4.68 (V) mm | 5.59 (H) x 4.68 (V) mm | |
| | Cell Size | | 6.35 (H) x 7.4 (V) μm | 6.50 (H) x 6.25 (V) μm | |
| | Scanning System | | 2:1 Interlace | | |
| | Vertical Frequency (Frame Rate) | | 59.94 Hz | 50.00 Hz | |
| | Horizontal Frequency | | 15.734 kHz | 15.625 kHz | |
| | Resolution | | 480 TV lines | | |
| | S/N Ratio | | More than 48 dB (GAIN 0dB) | | |
| | Minimum Scene Illumination | | 0.53 lx at F1.2 | 0.47 lx at F1.2 | |
| | Sync. System | | Internal | | |
| | Video Output | | 1.0Vp-p with 75Ω | | |
| | Shutter Speed | | Electronic Iris / Fixed Shutter (Software Selectable) | | |
| | Gain | | AGC / Fixed Gain (Software Selectable) | | |
| | Gamma | | 1 / 0.45 (Software Selectable) | | |
| | White Balance | | Normal / Mirror (Software or Wire Harness Selectable) | | |
| | Mirror Image | | I2C through Jig box | | |
| | Communication | | DC +7V to +13V | | |
| | Power | Input Voltage | Less than 1.0W | | |
| | | Consumption | 26 (W) x 26 (H) x ** (D) mm | | |
| Mechanical | Dimensions | | IR cut filter | | |
| Specifications | Optical Filter | | IR cut filter | | |
| | Weight | | CS mount / Fixed lens / Without lens mount | | |
| | Weight | | Approximately 12g (without lens) | | |
| Environmental | Temperature & Humidity | Operational | | e: -10 to 45°C; | |
| Conditions | | | Relative Humidity: 0 to 85% (No Condensation) | | |
| | | Storage | | e: -30 to 65°C; | |
| | | Storage | Relative Humidity: 0 to 90% (No Condensation) | | |
| | RoHS | | RoHS C | ompliant | |



B. Connector Specifications

1. Power / Video Connector (CN1)

| Pin No. | Signal Type | Color of the Wire |
|---------|--------------------------------------|-------------------|
| 1 | Power in | Red |
| 2 | GND | Black |
| 3 | Video Out | Yellow |
| 4 | GND | Black |
| 5 | Select image type (Normal/Mirror) | Green |
| 6 | N.C. | |

Notes: The mirror image is set by pin 5.

- a. The mirror image outputs when pin no.5 connects to the GND. The normal image outputs when pin no.5 is open.
- b. The camera setting when mirror is selected:

Back light compensation: OFF ALC: ON White Balance: AUTO

Image: Mirror Image

(The settings above cannot be changed by the communication)

c. The camera setting when normal is selected:

Back light compensation: ON
ALC: ON
White Balance: AUTO

Image: Normal Image

(The settings above cannot be changed by the communication)

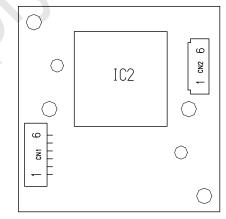


Fig. 1 PCB1 Back

2. Communication Connector (CN2)

Note: Communication Jig box is required for communicating to the camera.

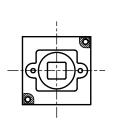
| Pin No. | No. Signal Type Color of the Wir | |
|-------------|----------------------------------|-------|
| 1 | EEPSL | White |
| 2 EEPSL Whi | | White |
| 3 | Write Protect White | |
| 4 | GND | White |
| 5 | Data | White |
| 6 | CLK | White |

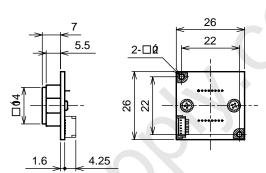


II. Dimensions

A. Dimensions STC-N632 / P632: Without lens mount type



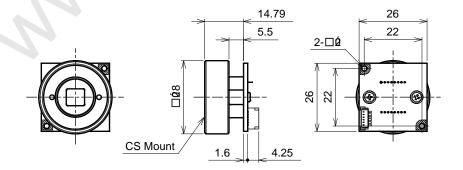




Unit: mm

B. Dimensions STC-N632CS / P632CS: CS mount type



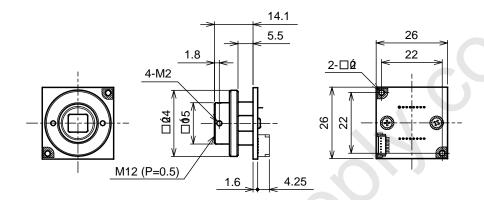


Unit: mm



C. Dimensions STC-N632L / P632L: Fixed lens type





Unit: mm



Revisions

| Rev | Date | Changes | Notes |
|-----|------------|--------------|-------|
| 1.0 | 2009/08/31 | New Document | |



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