

1. FEATURES

1) High quality picture :

Having high quality image sensor, 1/3" B/W CCD with 270,000(EIA)/320,000 (CCIR) pixels, it realized high quality picture of more than 500 TV lines, and a noise proof circuit which improves S/N ratio and a line enhanced circuit which enhances definition of the image are used to realize the most defined screen of clear image.

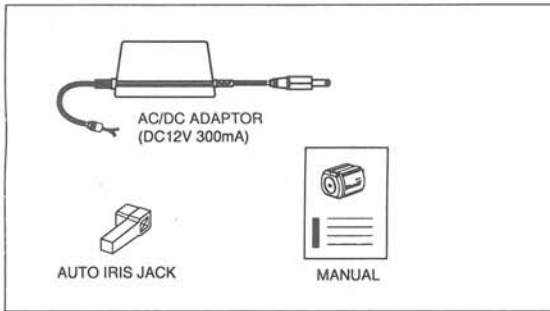
2) Automatic function :

The camera can be set-up automatically according to the user environment.

3) Auto-iris lens function :

It is available to use E-Shutter and video operation auto-iris lens.

2. PARTS AND ACCESSORIES



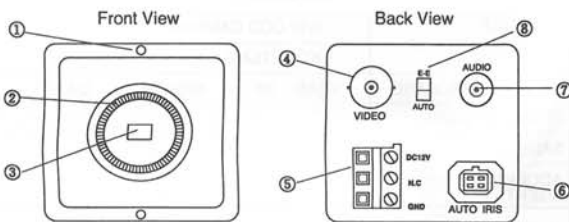
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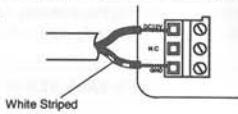
3. SPECIFICATIONS

| MODEL | KCB-276A (EIA) | KCB-276C (CCIR) |
|-----------------------|--|-------------------------|
| Power | DC 12V ± 1V | |
| Consumption | Less than 120mA | |
| Image Sensor | 1/3 inch 270,000 pixel | 1/3 inch 320,000 pixel |
| Effective Lines | 512(H) × 492(V) | 512(H) × 582(V) |
| Resolution | Horizontal: 350TV Line | |
| Scanning System | 525Line 2 : 1 Interlace | 625Line 2 : 1 Interlace |
| Min. Illumination | 2Lux (F1.2 Lens) | |
| Gamma | γ = 0.45 | |
| Standard Illumination | 1000Lux F-4.0 (3200° K) | |
| S/N Ratio | More than 50dB (AGC OFF) | |
| Video Output | VBS1.0V p-p/75 Ω (Video signal : 0.714Vp-p, Syn. Signal : 0.286Vp-p) | |
| AGC | Automatic Gain Control (0-18dB) | |
| White Balance | Automatic White Balance | |
| Auto Iris | Electrical Auto Iris (1/50, 1/60 - 1/100,000) | |
| Iris | Video DRV auto iris lens (Shutter Off) Selector S/W / Down side CCD-IRIS (Shutter Auto) | |
| Operating Temperature | 0° C ~ +45° C (Humid. 15% ~ 90%) | |
| Size | (W)50 X (H)125 X (D)50 | |
| Weight | 250g | |

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4. NAME OF EACH PARTS



- ① **Lens holder fixing screw** : Fix the C/CS mount lens holder and prevent loosing focus.
- ② **Lens holder** : Can change the holders between C-mount and CS-mount according to the lens.
- ③ **Image part** : Image is relayed to this part through lens.
As having CCD, any dirt or finger prints which may deteriorate picture quality must be avoided in this part.
- ④ **Video output connector** : Cable connection for video output(BNC).
- ⑤ **Power Input** : DC +12V, 300mA

- ⑥ **Auto Iris lens connector** : Connection for auto iris lens operation cable.(Video Drv.)
- ⑦ **Audio output connector** : Cable connection for audio output(RCA).
- ⑧ **Switch for auto iris lens operation** : Auto iris lens operation method can be selected by this switch according to the iris type.
(upside : Electronic shutter, Downside : Video operation type)

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5. HOW TO HOLD LENS

5-1. Cautions before holding lens

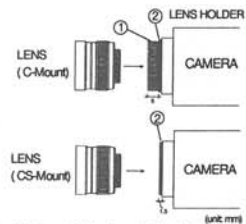
- 1) With the protection lid taken off, be careful not to expose the lens to the direct sunlight or other strong lights.
- 2) Assemble the camera and lens immediately after taking the protection lid off. Do not leave the lens without the protection lid for long, or CCD could be contaminated with dusts and then it could deteriorate the function.
- 3) As it is assembled with C-Mount holder at the factory, please replace the C-Mount holder with the CS-Mount holder (included in the package) when you need to use a CS-Mount lens.

5-2. Lens holding and focus adjustment

- 1) After taking the protection lid off, assemble C-Mount lens directly to the camera. (For the use of CS-Mount, however, firstly, remove the C-mount holder, and then assemble the CS-Mount lens.)
- 2) For the connection between the monitor and camera, use a coaxial cable, and set the power of the camera with the right polarity. (Wrong polarity may cause problem)
- 3) Take an object which is more than 2 meters away, and check if the distance meter is set to the infinitude, and then by using the iris and the holder adjust the screen to be properly bright and the image to be best. (After adjustment, fix lens holder by fixing the lens holder fixing screw)

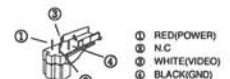
5-3. Using lens and its holder

- 1) **C-MOUNT Lens**: Use both of holder ① & ② with lens
- 2) **CS-MOUNT Lens**: Use only holder ② with lens
- 3) **How to use Auto Iris Lens**:
This camera can be used with Auto Iris Lens (Video operation type) or Elec.-shutter lens by easy switch operation without any change of addition or deletion in the circuit.
 - Recommended Auto Iris Lens
 - Select the switch position according to iris type (refer to article 4-5, page 3).



How to Install;

- The wire of Auto Iris Lens should be connected with Auto Iris terminal like the diagram in right side (Video operation type)
- Connection terminal should be connected to the Auto Iris terminal attached at the back side of the camera.



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B/W CCD CAMERA
(INSTALLATION/OPERATION MANUAL)
KCB-276
(ELECTRONIC SHUTTER, AUTO-IRIS LENS)



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6. CAUTIONS IN INSTALLATION

- 1) Assemble the camera and lens quickly in a clear place to avoid dust.
- 2) As this camera is composed with high resolution and very precise components, be careful not to drop it or do the shocking to it during assembly.
- 3) Do not install it facing the sun so that the direct ray of light may not come through the lens.
- 4) Avoid places where shaking happens often.
- 5) Do not pull the cable. It may cause disconnection or shorts of wire.
- 6) Do not touch the inside of camera even if troubles happened. Just contact A/S center nearby
- 7) Install it safe so that no water goes into it. Contact the agent who sold the unit (A/S center) when water goes into it.
- 8) Temperature of the spot should be within the allowed range specified in the specification.
- 9) If it appears to be defective, put off the power and contact the selling agent nearby (A/S center). Further use may lead to greater troubles.
- 10) Before installation, make sure disconnected the power supply first, check the ground connection, and then install it.

7. SELF-CHECK POINTS BEFORE ASKING A/S SERVICE

| CONDITIONS | CHECKING POINTS |
|--|--|
| If the screen is not on. | <ul style="list-style-type: none"> • Check if the power is connected for sure and correctly. • Check if the iris is closed or if it is adjusted correctly. • Check if the cable is connected correctly. |
| If the screen is not clear or is spread. | <ul style="list-style-type: none"> • If dust is seen through the monitor screen after fixing lens, disassemble the lens and clear off the dust on the surface of CCD with blower or soft cloths. • Check if the lens is focused properly. • Check if the monitor color and brightness is adjusted properly. |

WARRANTY

| | | | |
|------------------------|----------------|-------|------|
| PRODUCT | B/W CCD CAMERA | | |
| MODEL | KCB-276A/C | | |
| DATE OF PURCHASE | YEAR 20 | MONTH | DATE |
| TERMS OF WARRANTY | | | |
| SALES AGENT | | | |
| ADDRESS OF SALES AGENT | | | |

We will guarantee as follows :

1. This product is made through rigid quality control and test process
2. In case that this product is out of order due to the defect in manufacturing even through the product has been normally used, A/S will be afforded at free of charge for one year after purchasing date.
3. In case of the followings, KOCOM will afford A/S with charge of cost even through in warrant period.
 - 1) Out of order by user's mishandle or move
 - 2) Case of wrong repair or damage by modification of inner part
 - 3) Out of order by natural disaster or disorder in power source
 - 4) Case of omission, correction without confirmation, loss of warranty card.
4. Please be careful for keeping this warranty card as it won't be reissued.
5. please surely present the warranty card in A/S request.

FOR AFTER-SALE SERVICE REQUEST

1. Describe the product name
2. Describe the model name
3. Describe the disorder contents for A/S
4. Describe the address or telephone number of consumer

PLEASE CONTACT THE BELOW ADDRESS FOR A/S

Address : 8-3, Wonnli-Dong, Wonnli-Gu, Puchon, Kyonggi-Do, Korea
Tel.: 82-32-666-7949/7653, Fax: 82-32-666-0118