

# **INSTRUCTION MANUAL**

# CCD COLOR CAMERA

Please read this manual thoroughly before use, and keep it handy for future reference.

Record in space provided below the Model No. and the Serial No. as found on the label on the bottom of this unit.

Model. No. IK-DF01A Serial No.

Retain this information for future reference.

# TABLE OF CONTENTS

### Important safeguards

1.	Features & Description	3
	Cautions	
3.	Components	3
4.	Part Names & Functions	4
5.	Connections and Operations	5
6.	Installations	7
7.	Line Lock Phase	9
8.	Note on use and Installation	9
9.	In Case of Problems	10
10.	Specifications	11
11.	Exterior View	12

# **IMPORTANT SAFEGUARDS**

#### 1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

#### 2. Retain Instructions

The safety instructions and instruction manual should be retained for future reference.

### 3. Heed Warnings

All warnings on the product and in the instruction manual should be adhered to.

### 4. Follow Instructions

All operating and use instructions should be followed.

### 5. Cleaning

Disconnect this video product from the power supply before cleaning.

### 6. Attachments

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

### 7. Water and Moisture

Do not use this video product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

### 8. Accessories

Do not place this video product on an unstable cart, stand, tripod, bracket or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

### 9. Ventilation

This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

#### 10.Power Sources

This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your product dealer.

### 11. Power-Cord Protection

Power-Supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, screws and the point where they exit from the product.

### 12.Lightning

For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the power supply and cable system. This will prevent damage to the video product due to lightning and power-line surges.

### 13.Overloading

Do not overload power supply and extension cords as this can result in a risk of fire or electric shock.

### 14.Object and Liquid Entry

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

### 15.Servicing

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

### 16.Damage Requiring service

Disconnect this video product from the power supply and refer servicing to qualified service personnel under the following conditions.

a. When the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the video product.

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

d. If the video product does not operate normally by following the operating instructions in the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

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

f. When the video product exhibits a distinct change in performance-this indicates a need for service.

### 17.Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

#### 18.Safety Check

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.





• The CAUTION label, shown on the left, is attached on the camera.

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



The lightening 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 :

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

### CAUTION :

CONNECT 24V AC UL LISTED CLASS 2 POWER SUPPLY.

FIELD INSTALLATION MARKING : WORDED : "THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES."

### Note : The camera is indoor used

### INFORMATION

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 at his own expense.

**USER-INSTALLER CAUTION**: Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party.

# 1. FEATURES & DESCRIPTION :

IK-DF01A has following function.

- (1) Quick install Design- you can manually set the camera direction.
- (2) Built in vari-focal lens with auto-iris Focal length 2.8~5.8mm
- (3) Incorporated 1/4type CCD image sensor gives high resolution and excellent sensitivity
   480 lines horizontal resolution
   0.5 lx minimum illumination with smoke cover
- (4) 50dB Signal-To Noise Patio
- (5) Power supply- AC24V or DC12V This camera automatically detects the power.
- (6) BLC, AGC, and Line-Lock (AC24V)

# 2. Cautions :

- (1) In order to protect the camera, avoid placing or using it under direct sunlight, rain or dust.
- (2) Avoid touching the CCD sensor with your fingers. If necessary, use a soft cloth moistened with alcohol to wipe off any dust.
- (3) When the camera is not in use, keep the lens cap attached to protect the CCD sensor.
- (4) Avoid aiming the camera at the sun.
- (5) Avoid shooting the camera at intense light. Intense light such as a spotlight may cause a bloom or smear. A vertical stripe may appear on the screen. However, this is not a malfunction.
- (6) Install the camera away from video noise. If cables are wired near electric lighting wires or a TV set, noise may appear in images. In this event, relocate cables or reinstall equipment.

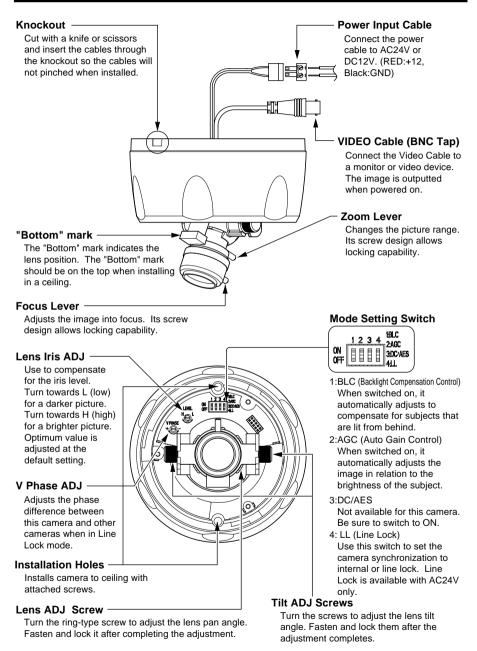
# 3. Components :

- (1) Camera
- (2) Accessories
  - (a) Instruction Manual 1

1

(b) Installation Screw 2

# 4. PART NAMES & FUNCTIONS :



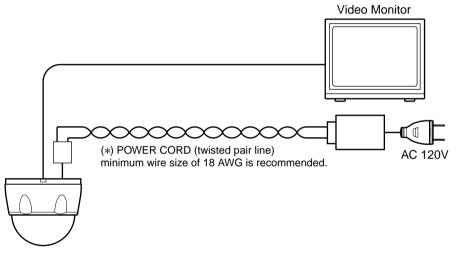
# 5. CONNECTIONS AND OPERATIONS :

## Notes on connecting -

- Power plugs connected equipment must be disconnected before installations.
- A 75-ohm coaxial cable (3C-2V or 5C-2V) is required for standard connection.
- For details of wiring and operation of equipment to be connected, refer to their operation manuals.
- Coaxial cables for video signals and the power cord are not supplied with the camera.

Refer to the operations manuals of connected equipment for detailed wiring and overall operation instructions.

# 5-1 Basic connection single system configuration



24V AC UL Listed Class 2 power supply / 12V DC power supply CAUTION : Never input 24V AC and 12V DC at the same time. In case of DC12V, connect "+12" to red cable and "GND" to black cable.

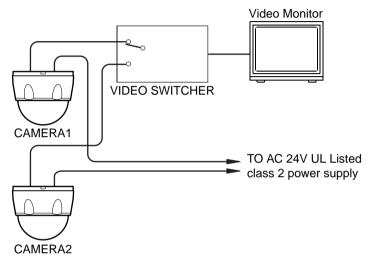
### case of DC12V, connect "+12" to red cable and "GND" to black cable

### Do not overload power supply -

Since this camera uses 24V AC UL Listed Class 2 power supply or 12V DC power supply, it should be connected to a power supply that allows for at least 5w consumption.

# 5-2 Line-Lock Control

- Matching the vertical synchronization with the power frequency is called the Line-Lock.
- This function is activated when the SYNC menu is selected to LL.
- When two or more cameras are switched by the video switcher for viewing by a monitor TV, the vertical sync. phase can be locked with the power frequency, and a stable vertical sync. is obtained without being disturbed at the time of switching.



### Note :

- The camera is synchronized to the power frequency of 60±1Hz covering a normal fluctuation of the power frequency. However, the camera may not cover a large fluctuation caused from the power generated by an engine generator, etc.
- It takes about 10 seconds or more until a stable synchronization is obtained after the power is turned on. This is normal, because several seconds are required to stabilize the camera against power noise.
- Refer to "7. LINE-LOCK PHASE" for adjustment.

# 6. Installations :

- (1) Turn the cover left to unfasten it.
- (2) Connect the cable of the camera and the cable from the designated power supply with respective BNC connectors.
- (3) Fix the camera base to the ceiling firmly with the attached 2 screws. Otherwise it might drop and cause injury.

### Note :

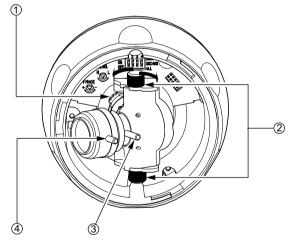
- The camera's weight is about 290g.
- The attached screws are designed to install the camera to a board. When installing to a surface of other materials, prepare the screws to fix it firmly.
- The screw diameter is \$4mm.

# 6-1 Adjust the Angle of View

(1) The lens direction in pan direction can be adjusted by turning ring ① left to unfasten it without moving the lens. After adjustment, turn the ring ① right to fasten it.

### Note :

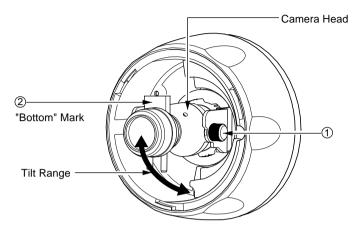
• Do not turn the lens over 360°. Otherwise the inner connector may be broken and the image may not appear.



- (2) The lens direction at the tilt angle can be adjusted by turning screw (2). After adjustment, turn screw (2) to fasten it.
- (3) Adjust the zoom position by turning zoom lever ③. After adjustment, fasten the zoom lever ③.
- (4) Adjust the focus by turning focus lever (4). After adjustment, fasten the focus lever (4).
- (5) Repeat the adjustments from step (1) to step (4) till the optimum image appears.

# 6-2 Installing to Wall

The camera head at shipping is set for installing the camera to the ceiling. The camera head angle should be changed when installing to a wall.



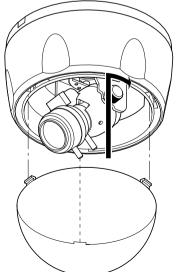
(1) Turn 2 screws of 1 to unfasten the camera head.

### Note :

- The camera head is connected to the inside with cable, do not pull it with strength. Otherwise the inner connector may be broken and the image may not appear.
- (2) Reverse the camera head 180° from default setting and install it. The direction of the camera head is shown as above. With the "Bottom" mark (2) upwards, the tilt range is adjusted as shown above.
- (3) Fasten the screw ① to fix the camera head.

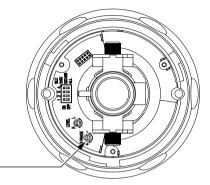
# 6-3 Installing the Cover

As shown in the illustration, adjust the cover position to the camera's installation position and turn it right to install it.



# 7. LINE LOCK PHASE

When a video switcher switches two or more cameras, the picture may fluctuate on the video monitor due to the different AC line phase of each camera. In this case, adjust the V PHASE controller to get a stable image.



V PHASE CONTROL

# 8. NOTE ON USE AND INSTALLATION

### • Do not aim the camera at the sun

Do not aim the camera at the sun or point it at sun even if you are not shooting.

- Do not shoot intense light Intense light such as a spotlight may cause a bloom or smear. A vertical stripe may appear on the screen. However, this is not a malfunction.
- Treat the camera with care Do not drop the camera or subject it to strong shock of vibration. Otherwise, the camera may malfunction.

### • Never touch internal parts Do not touch the internal parts of the camera other than the parts specified. Otherwise, the camera may malfunction.

- Do not splash water on the camera Install the camera where the camera can be kept dry. If the camera gets wet, turn off the power and contact your dealer.
- Check the ambient temperature and humidity
   Avoid using the camera where the temperature is hotter or colder than specified.
   Otherwise, the quality of images may deteriorate or internal parts may be affected.
   Special care is required to use the camera at high temperature and humidity.

   Should you notice any trouble

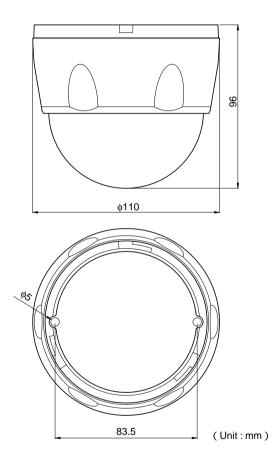
### If any trouble occurs while you are using the camera, turn off the power and contact your dealer. If you continue to use the camera when there is something wrong with it, the trouble may much worse and an unpredictable accident may occur.

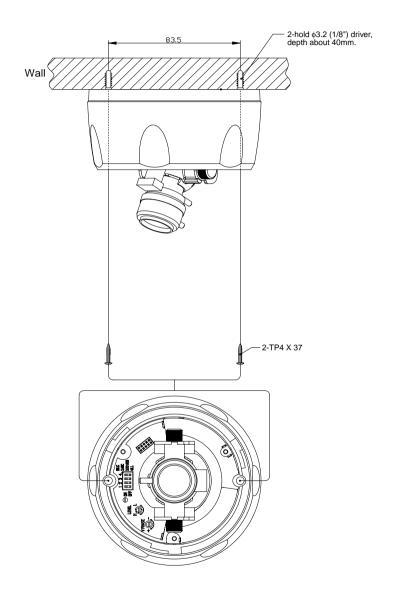
# 9. IN CASE OF PROBLEMS

Condition	Check Points
No image	<ul> <li>Are the camera and connected equipment turned on?</li> <li>Is the mode setting switch DC/AES set to OFF? Be sure to set to ON.</li> <li>Are cables connected correctly?</li> </ul>
Unnatural color	<ul><li>Is the monitor TV adjusted correctly?</li><li>Is the lighting too weak?</li></ul>
The image is out of focus. The image is dark.	<ul> <li>Is the lens focus adjusted?</li> <li>Is the lens or cover dirty?</li> <li>Are there any large barrier or bright illumination near the camera?</li> <li>Is the lens iris adjustment volume correctly set?</li> </ul>

# **10. SPECIFICATIONS**

1. Image System	
Image Device	1/4" IT CCD
Pixel Elements	768 (H) x 494 (V)
2. Electrical	
TV System	2:1 Interlace, 15.734KHz Horizontal, 59.94Hz Vertical
Horizontal Resolution	480 TV lines
S/N Ratio	50dB (TYP. AGC Off, Weight On)
Minimum Illumination	0.2 lux (More than 10% of image output, Clear cover) 0.5 lux (More than 10% of image output, Smoke cover)
Auto Gain Control (AGC)	Average AGC (24dB)
Iris Control Mode	Auto Iris Lens
White Balance	Auto
White Balance Range	2500°K ~ 10000°K
Line lock Vertical phase adjustment	Provided (VR : range 300deg)
γ compensation	0.45
Backlight Compensation (BLC)	On / Off (DIP-SW)
Video Output Signal	VBS (1.0Vp-p, 75ohm unbalance, BNC)
Synchronizaiton System	Internal for DC or Linelock for AC
3. Mechanical	
Weight	290g
Dimension	110mm (φ) x 96mm (H)
4. Optical	
Built-in Lens	Vari-focus Lens f=2.8 ~ 5.8mm, F1.4 : Auto Iris
View Angle	Wide : 97.5° (D), 76.7° (H), 56.8° (V) Tele : 47.9° (D), 38.2° (H), 28.7° (V)
Focus Length	0.2m ~ ∞
5. Power	
Input Voltage	DC12V or AC24V
Power Consumption	3.5W
6. Environmental	
Operating Temperature	-10°C~50°C 90%RH max
Storage Temperature	-20°C~60°C 70%RH max
7. Regulation	
Safety	UL2044
Emission	FCC Class A / DOC ClassA





## LIMITED WARRANTY CCD SECURITY CAMERA

The Imaging Systems Division of Toshiba America information Systems, Inc. ("ISD") makes the following limited warranties with regard to this CCD Camera ("Product"). These limited warranties extend to the Original End-User ("You[r]").

Three (3) Years Limited Warranty of Labor and Parts ISD warrants that this Product will perform in accordance with specifications for a period of three (3) years from the date of purchase by the Original End-User. During this three (3) years period, ISD will repair or replace the P oduct, if it does not perform as warranted. In order to take advantage of this Limited Warranty. You must: (a) deiver the Product to an ISD Authorized Service Provider ("ASP"): and (b) pay all transportation and insurance charges for shipment of the Product to the ASP. ISD reserves the right to substitute factory refurbished parts in place of those in need of repair.

Instruction Manual (Owner's Manual): You should read the Instruction Manual (Owner's Manual) thoroughly before operating this Product. Before seeking warranty service. you should check the troubleshooting guide in the Instruction Manual (Owner's Manual) and follow the instructions to correct the problem.

How to Obtain Warranty Service Step-by-step Procedures: To obtain warranty service. You should:

- 1. Contact Toshiba at (877) 855-1349 for operation or installation assistance. (877) 855-1FIX
- 2. Contact an ASP for warranty service with in thirty (30) days after the Product fails to comply with specifications.
- 3. Arrange for shipment of the Product to a Toshiba Authorized Service Provider.
- 4. Securely pack the Product in the original carton and external shipping pack, include a letter explaining the problem with a copy of the bill of sale or proof of purchase.
- 5. Prepay all transportation and insurance costs.

Questions? If you have any questions, please check our wed site at http://www.toshiba.com/taisisd/security/

Your Responsibilities: This Limited Warranty is subject to the following conditions:

- 1. You must provide the bill of sale or proof of purchase at the time that warranty service is required.
- You must notify an ASP within thirty (30) days after you discover that the product does not perform in accordance with specifications during the Limited Warranty period.
- 3. All Warranty Service of this product must be by an ISD Authorized Service Provider.
- 4. You must pack the Product in its original carton using the original packing material, then insert the original carton containing the Product into another carton with additional packing materia before shipping the Product to an ASP.

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THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

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No person, agent, distributor, dealer, authorized service provider, or company is authorized to change, modify, or extend the terms of this Limited Warranty in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of ISD arising under this Limited Warranty or under any statute, or law of the United States or any state thereof, is herby limited to three (3) years from the date You discovered should have discovered the problem. This limitation does not apply to impled warranties arising under state law. Some states do not permit limitation of the time within which You may bring an action beyond the limits provided by state law, so the above provision may not apply to You. This Limited Warranty gives You specific legal rights and You may also have other rights which vary from state to state.

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