

TOSHIBA

Toshiba CMOS Color Camera IK-HR1D Instruction Manual

Cmos color camera

1

2

3

Table Of Contents

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18
19
20
21
22
23
24
25
26
27
28



•

•

Bookmarks

[Download this manual](#)

Quick Links



CMOS COLOR CAMERA

IKTOSHIBA
Leading Innovation >>>

FCC NOTICE

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 instructions in this 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.

TOSHIBA

Leading Innovation >>>

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 responsible for compliance to

Part 15 of the FCC Rules.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as household waste.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about the take-back and recycling of this product, please contact your supplier where you purchased the product or consult.

This manual is made from recycled paper.

INSTRUCTION MANUAL

For Customer Use

Enter below the Serial # which is located on the bottom of the cabinet. Retain this information for future reference.

Model #

IK-HR1D

Serial #



[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba CMOS Color Camera IK-HR1D

[Digital Camera Toshiba IK-HR1D Instruction Manual](#)

Cmos color camera (19 pages)

[IP Camera Toshiba IK-HR1D Specification](#)

Ultra compact 1080p/60 fps cmos hd camera (2 pages)

[Security Camera Toshiba IK-HR1S Instruction Manual](#)

Toshiba cmos color camera instruction manual (28 pages)

[Security Camera Toshiba IK-HR1S Instruction Manual](#)

Cmos color camera (19 pages)

[Security Camera Toshiba IK-HD1 Specification](#)

Rs-232c communication specifications (18 pages)

[Security Camera Toshiba IK-HD1 Specification Sheet](#)

3ccd hdtv camera (2 pages)

[Security Camera Toshiba IK-HD1H Instruction Manual](#)

3ccd hd camera head (1 page)

[Security Camera Toshiba TQUICK START Instruction Manual](#)

3cmos camera head (1 page)

[Security Camera Toshiba IK-WB70A User Manual](#)

Network camera (83 pages)

[Security Camera Toshiba IK-6420A User Manual](#)

Toshiba network camera user's manual (8 pages)

[Security Camera Toshiba IK-WB21A Advanced User's Manual](#)

Toshiba network camera user's guide (65 pages)

[Security Camera Toshiba IK-WB21A Instruction Manual](#)

(16 pages)

[Security Camera Toshiba IK-WB15A User Manual](#)

Toshiba ik-wb15a: user guide (64 pages)

[Security Camera Toshiba IK-628A Instruction Manual](#)

Toshiba ccd color camera instruction manual (12 pages)

[Security Camera Toshiba IK-DP20A Instruction Manual](#)

Toshiba security camera user manual (36 pages)

[Security Camera Toshiba IK-TF5 Instruction Manual](#)

3 ccd camera (36 pages)

Summary of Contents for Toshiba CMOS Color Camera IK-HR1D

[Page 1](#) CMOS COLOR CAMERA IK-HR1D FCC NOTICE 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.

[Page 2: Safety Precautions](#)

SAFETY PRECAUTIONS Safety icons This manual contains safety instructions that must be observed in order to avoid potential hazards that could result in personal injuries, damage to

your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and the icons highlight these instructions as follows: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

[Page 3](#) 5. Repairs or modifications made by the user or caused to be made by the user and carried out by an unauthorized third party. 6. Notwithstanding the foregoing, Toshiba's liabilities shall not, in any circumstances, exceed the purchase price of the product.

[Page 4: Table Of Contents](#)

Accordingly, [Toshiba/TAIS] disclaims any and all liability arising out of the use of the product in any critical applications.

[Page 5](#) (6) OPTION... (6.1) Changing a type of output monitors ... (6.2) Changing I/P MODE ... 25 (6.3) Changing RS 232C baud rate ... 25 (7) Returning to factory settings ... 25 8 BEFORE MAKING SERVICE CALL ... 9 SPECIFICATIONS ... 10 EXTERNAL APPEARANCE DIAGRAM...

[Page 6: Cautions On Use And Installation](#)

1. CAUTIONS ON USE AND INSTALLATION • Handling the unit. Do not drop, jolt, or vibrate, as this may result in damage to the unit. This may cause problems. Treat the camera cables carefully to prevent cable problems, such as breaks in the cable and loose connections.

[Page 7: Names And Functions](#)

3. NAMES AND FUNCTIONS Prism faceplate [Front] [Bottom] Prism faceplate The protection cap is attached on the lens mount portion. After removing the cap, mount the lens. Be careful not to scratch or touch the optical area. DC IN 12V terminal Accepts a DC power input (12V).

[Page 8: Connection](#)

4 CONNECTION 4 1 Standard Connection Lens (option) IK-HR1D Less than 11 mm [0.433"] 4 2 Cautions on Connection When connecting the camera cables, be sure to turn off the CMOS color camera and any other equipment connected to it. For DC power supply connecting to DC IN 12V terminal, use UL listed and/or CSA approved ungrounded type AC adaptor with the specifications described below.

[Page 9: Connection On Rear Panel](#)

4 3 Connection on Rear Panel Rear panel view 4. 3A Connector Pin Assignments DC IN 12V terminal DVI-I terminal +12V Data2- +12V Data2+ Data2 Shield (GND) REMOTE terminal Analog Vertical Sync Analog Red Analog Horizontal Sync * For connecting to the REMOTE terminal, use a shielded cable. Connect a cable correctly, or it may be damaged.

[Page 10: Operation](#)

5 OPERATION Refer to the item "4. CONNECTION", and connect the equipment correctly. Turn on the connected equipment and the camera. Aim the lens at the object, adjust the lens iris adjustment, focus adjustment, etc. Refer to the item "5.1 White Balance", make the adjustment. Refer to the items "5.2 Gain", "5.3 Switching I/P mode", "7.

[Page 11](#) Display AWB OK Automatic white balance adjustment finished correctly. AWB NG Automatic white balance adjustment cannot be performed because the video level is too low. LEVEL LOW Adjust the video level by increasing the illumination or opening the lens iris. AWB NG Automatic white balance adjustment cannot be performed because the video level is too high.

[Page 12: Gain](#)

5 2 Gain When the image is dark even if the lens iris is open, change the gain (video gain) to get the desired video level. For gain adjustment of the unit, MANUAL (Manual), OFF (0 dB) modes are provided. Select the mode on the GAIN menu.

[Page 13: Items Controlled By The On Screen Display](#)

6 ITEMS CONTROLLED BY THE ON SCREEN DISPLAY Item MODE AUTO, MANUAL, SS -100 AUTO level AUTO peak : average 00 10 AUTO response speed AUTO area PRESET A, PRESET B, PRESET C, PRESET D, PRESET E MANUAL speed OFF, 1/100s, 1/125s, 1/250s, 1/500s, 1/1000s

1/2000s, 1/4000s, 1/8000s, 1/16000s, 1/32000s Syncro.

[Page 14: Mode Setting By The On Screen Display](#)

7 MODE SETTING BY THE ON SCREEN DISPLAY Various settings can be controlled on the unit by using the on screen menu displayed on the monitor. The contents once set are memorized in the scene files (A, B, C, D, E) selected, so if the power turns off, it is unnecessary to set the values again when using the unit next time.

[Page 15: Menus](#)

7 3 Menus Select the menu to change the setting by referring to the item "7.1 Using the Menus". When the [MENU UP], [MENU DOWN] buttons are pressed, the " " on the screen moves up and down. Move the " " to the item whose setting you wish to change. SHUTTER Electronic shutter The electronic shutter has three modes;...

[Page 16](#) (b) Changing the automatic shutter detection (ratio between peak and average value) Move the " " to PEAK/AVE by pressing [MENU UP], [MENU DOWN] buttons. Select the ratio between peak and average value by pressing [DATA UP], [DATA DOWN] buttons. (Peak:Average) The peak value increases by pressing 00:10...

[Page 17: \(1.2\) Changing The Setting In Manual Mode](#)

1 2 Changing the setting in MANUAL mode Move up and down Select the desired by pressing value by pressing MENU UP,DOWN DATA UP,DOWN -- 1 SHUTTER -- <FILE A> MODE MANUAL MANUAL < MODE = MANUAL> (a) Changing the shutter speed Move the "...

[Page 18: Gain \(Video Gain\)](#)

2 GAIN (Video gain) GAIN has two modes; MANUAL, OFF. Move the " " to MODE, press the [DATA UP], [DATA DOWN], and select one of the two modes : MANUAL, OFF. In the OFF mode, gain is fixed to 0dB. 2 1 Changing gain in MANUAL mode Move up and down Select the desired...

[Page 19](#) (a) Changing R PAINT Move the " " to R PAINT by pressing [MENU UP], [MENU DOWN] buttons. Select the desired value of red paint by pressing [DATA UP], [DATA DOWN] buttons. -1 0 Red is decreased. (b) Changing B PAINT Move the "...

[Page 20: \(3.2\) Changing The Setting In Atw \(Automatic Tracking White Balance\) Mode](#)

3 2 Changing the setting in ATW(Automatic Tracking White balance) mode Move up and down Select the desired by pressing value by pressing MENU UP,DOWN DATA UP,DOWN -- 3 WHT BAL -- <FILE A> MODE R PAINT B PAINT (a) Changing R PAINT Move the "...

[Page 21: \(3.3\) Changing Gain In Manual Mode](#)

3 3 Changing gain in MANUAL mode Move up and down Select the desired by pressing value by pressing MENU UP,DOWN DATA UP,DOWN -- 3 WHT BAL -- <FILE A> MODE R GAIN B GAIN C TEMP (a) Changing the red gain Move the "...

[Page 22: Process](#)

4 PROCESS Move up and down Select the desired by pressing value by pressing MENU UP,DOWN DATA UP,DOWN -- 4 PROCESS -- GAMMA ON/OFF GAMMA DTL GAIN DTL B.FRQ HIGH M PED 4 1 Changing gamma correction ON/OFF Move the " " to GAMMA ON/OFF by pressing [MENU UP], [MENU DOWN] buttons. Select either ON or OFF by pressing [DATA UP], [DATA DOWN] buttons.

[Page 23: \(4.3\) Changing Detail \(Outline\) Gain](#)

4 3 Changing detail (outline) gain Move the " " to DTL GAIN by pressing [MENU UP], [MENU DOWN] buttons. Select the desired value of the detail gain by pressing [DATA UP], [DATA DOWN] buttons. The detail decreases. 4 4 Changing DTL B.FRQ (detail boost frequency) Move the "...

[Page 24: Matrix\(Matrix Color Correction\)](#)

5 MATRIX(Matrix color correction) Red hue setting Red gain setting Green hue setting Green gain setting Blue hue setting Blue gain setting 5 1 Changing Matrix color correction ON/OFF

Move the " " to MATRIX by pressing [MENU UP], [MENU DOWN] buttons. Select either ON or OFF by pressing [DATA UP], [DATA DOWN] buttons.

[Page 25: \(6.1\) Changing A Type Of Output Monitors](#)

6 OPTION Move up and down Select the desired by pressing value by pressing MENU UP,DOWN DATA UP,DOWN -- 6 OPTION MONITOR I/P MODE BAUD RATE 6 1 Changing a type of output monitors Move the " " to MONITOR by pressing [MENU UP], [MENU DOWN] buttons. Select either PC or TV by pressing [DATA UP], [DATA DOWN] buttons.

[Page 26: Before Making Service Call](#)

8. BEFORE MAKING SERVICE CALL Symptom Is power supplied correctly? No picture Is the lens iris adjusted correctly? Are the camera and video cables connected correctly? Is the shutter mode set correctly? Is the monitor on, and in working condition? Is I/P mode set correctly? Poor color Is the monitor adjusted correctly?

[Page 27: External Appearance Diagram](#)

10. EXTERNAL APPEARANCE DIAGRAM Unit : mm [inch] 2-M3 Depth 3 [0.118] 5 [0.2] [0.31] 78 [3.07] 44 [1.73] 32.51[1.28] #4-40UNC [Front] [Rear] 56 [2.2] 5 [0.2] 4-M2 Depth 3 [0.118] 4-M3 Depth 3 [0.118] 25 [0.98] 25 [0.98]...

[Page 28](#) Limited Warranty - TOSHIBA CMOS Color Camera The Imaging Systems Division of Toshiba America Information Systems, Inc. ("ISD") makes the following limited warranties with regard to this CMOS color Camera ("Product"). These limited warranties extend to the Original End-User ("You[r]").