

Toshiba IK-HR3H Instruction Manual

Cmos color camera head

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INSTRUCTION MANUAL TOSHIBA CMQS COLOR CAMERA HEAD IK-HR3H

U.S.A INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: 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 in which case the user will be required to correct the 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 responsible for compliance to Part 15 pf the FCC Rules.

CANADA INFORMATION

CAN ICES-3 A/NMB-3 A

Following information is only for EU-member states:

In residential areas this product may cause radio interference, therefore this product must not be used in residential areas.

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 reason of the second reason in formation about the take-back and recycling of this	
product, lease on a put support of en you purchased the product or consult.	
CAUTIONS ON USE movation >>>> • This apparatus does not operate on its own. Be sure to use it by connecting with the dedicated	
 This apparatus does not operate on its own. Be sure to use it by connecting with the dedicated camera control unit (option). Please do not connect it to other equipment. 	
Read the "CAUTIONS ON USE AND INSTALLATION" in the instruction manual of IK-HD3D and follow them.	
This camera is for indoor use only.	
COMPONENTS	
(1) Camera head (without lens, with protection cap)1	
(2) Accessories	
(a) Instruction manual	
(c) Screws M2 x 8	
CONNECTION	
Camera control unit	
C-mount lens Camera Head	
(option) Dedicated ramera cable	
IK-HR3H	
(option) Flange	
Rear projection less than 11mm (0.433") face	
When connecting the camera cables, be sure to turn off the camera control unit and the other equipment	
connedted.	
When connecting the camera head and the camera control unit, please use the dedicated camera cable (option). We subgest that a 2-million pixel C-mount lens is used.	
• We suggest that a 2-million pixel C-mount lens is used. When using other lenses, the best camera performance of this camera may not be obtained.	
(For example, low resolution may occur, focus may be lost through the range of a zoom lens, and flare,	
ghosting or shading may occur) Furthermore, to avoid damaging the camera, use a lens which has a rear projection from the flange face	
of less than 11mm (0.433").	
DC power is supplied by a camera cable model # EXC-3HD	
model # IK-HD3D (option).	
**	
" shows a camera cable type name. Refer to the "Type name" of a camera cable in "OPTIONAL PARTS".	<u>⊢ 1/ 2</u>
For connection, please refer to the section "5. CONNECTION" in the camera control unit IK-HD3D	
instruction manual.	
Limited Warranty – TOSHIBA Camera The Imaging Systems Division of Toshiba America Information Systems, Inc. ("ISD") makes the following limited warranties	- <u></u>
with regard to this Camera ("Product"). These limited warranties extend to the Original End-User ("You[r]").	
One (1) Year Limited Warranty of Labor and Parts ISD warrants that this Product will perform in accordance with specifications for a period of one (1) year from the date	
of purchase by the Original End-User. During this one (1) year period, ISD will repair or replace the Product, if it does not	
a sufference of the surface has been advected as a state of the state	
perform as warranted. In order to take advantage of this Limited Warranty, You must: (a) deliver the Product to an ISD	
Authorized Service Provider ("ASP"); and (b) pay all transportation and insurance charges for shipment of the Product to	, 4 16-
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DVI monitor (commercial product) (option)	
DC power supply (option)	[]
** Ceauing innovation ///	
SPECIFICATIONS	
* These conditions are only satisfied when the camera head is connected to camera control unit model # IK-HD3D. Image sensor	
1/3 inch color CMOS sensor (rolling shutter/progressive scan) Effective pixels	
Horizontal : 1944, Vertical : 1092 Output pixels	
Horizonfal : 1920, Vertical : 1080 Approx. 8.7W (including the camera control unit) (with the power supply voltage	
Power chrsumption of 12V)	
Resolution Horizonfal: 900TV lines standard, Vertical: 900TV lines standard	
F7 standard Sensitiv(ty	L L
F7.7 stahdard (2000 lx, 3000K at 50Hz setting) 9.9 lx (at 59.94Hz setting, F2.2, sensitivity +20dB, BINNING: ON)	
8.2 lx (at 50Hz setting, F2.2, sensitivity +20dB, BINNING: ON) Minimuth illumination	
19.8 lx at 59.94Hz setting, F2.2, sensitivity +20dB, BINNING: OFF) 16.3 lx at 50Hz setting, F2.2, sensitivity +20dB, BINNING: OFF)	
Lens møunt C mount (flange back : 17.526 mm in-air)	
Operating ambient temperature 0°C to 4Q°C (32° F to 104° F)	
Operating ambient humidity Less than 90 %	
Weight Approx. 34 g (0.075 lbs) (tripod mount and screws not included)	
Design and specifications are subject to change without notice.	
For more information, please refer to the section "9. SPECIFICATIONS" in the camera control unit IK-HD3D instruction manual.	
OPTIONAL PARTS	
For further details, contact your camera dealer. Camera control unit	-(- <u>(</u>)
Camera cable Type name	
Type name	
IK-HD3D EXC-3HD03	
EXC-3HD06 EXC-3HD10	! 1
EXTERIOR DIMENSIONS	
Camera Head	
	a fel
Front	
Side 50.20] 24.5[0.97] 2-M2 basis Depth3.5[0.14]	
2-M2 basis Depth3.5[0.14]	
Same for the top Rear	
Bottom	
DISCLAIMER	
We disclaim any responsibility and shall not be responsible for any damages or losses incurred by the user in any of the following cases:	
1. Fire, earthquake or any other act of God; acts by third parties; misuse by the user, whether intentional or accidental;-use-under extreme operating-conditions	
 Malfunction or non-function resulting in indirect, additional or consequential damages, including but not limited to loss of expected income and suspension of business activities. 	
3. Incorrect use not in compliance with instructions in this instruction manual. 4. Malfunctions resulting from misconnection to other equipment.	
 Repairs or modifications made by the user or caused to be made by the user and carried out by an unauthorized third party. 	
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PROTECTION OF PERSONAL INFORMATION mages taken by the camera that reveal the likeness of an individual person may be considered personal information.	
Images taken by the camera that reveal the likeness of an individual person may be considered personal information. To disclose, exhibit or transmit those images over the internet or otherwise, consent from such individual person may be required. You are solely responsible to obtain such consent.	
LIMITATION OF USAGE	
The product is not designed for any "critical applications." "Critical applications" means life support systems, exhaust or smoke extraction applications, medical applications, commercial aviation, mass transit applications,	
military applications, homeland security applications, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damages. Accordingly, Toshiba	
disclaims any and all liability arising out of the use of the product in any critical applications.	
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CAUTIONS ON USE AND INSTALLATION	
Handling the unit	
Do not drog jo on its a constraint and the namage to the unit and this may cause problems. Treat the camera cables carefully to prevent cable proplems, such as breaks in the cable and loose connections.	
	r
 Install the camera in allocation (rec from nois) If the camera or the cables are located near power utility lines or a TV, etc. undesirable noise may appear on the 	
screen. In such a case, try to change the location of the camera or the cable wiring. • Operating ambient temperature and humidity.	
Do not use the camera in places where temperature and humidity exceed the specifications. Picture quality will	
deteriolate and internal parts may be damaged.	
Be particularly careful when using in places exposed to direct sunlight. When shooting in hot places, depending on the conditions of the object and the camera (for example when the gain is increased), noise in the form of vertical	
strips of white dots may occur. This is not a malfunction.	
When not using the camera for extended periods of time. Switch the control unit off and disconnect the power supply.	
Avoid using or storing the camera in the following places:	
Places filled with highly flammable gas.	
Places rlear gasoline, benzene, or paint thinner. Places subject to strong vibration.	
Places containing chemicals (such as pesticides), rubber or vinyl products for extended periods of time.	
The following descriptions are for when a camera control unit "IK-HD3D" is connected to this camera head. • Do not shoot intense light.	LI
If there is an intense light at a location on the screen such as a spot light, a blooming and smearing may occur.	
When internes light enters, vertical stripes may appear on the screen. This is not a malfunction. Ghosts may occur	
when there is an intense light near the object. In this case, change the shooting angle. • Moire	
A moire pattern is an interference pattern generated when two repetitive line patterns overlap. This is not a	
malfunction. Eliminating the repetitive line patterns, or aligning the two patterns, will eliminate the moire.	
 Handling of the camera head and protection cap. Keep the camera head and protection cap away from children, as they may pose a choking hazard. Because the 	
protection cap protects the image sensing plane when the lens is removed from the camera head, do not discard	
the protection cap. • When cleaning the camera.	
Unplug the power source before cleaning. Clean with a soft dry cloth only. Do not use chemicals or chemically	
treated colds. Chemicals may damage coatings and printed letters. When cleaning the lens, use lens cleaning paper.	
Installation of camera head. When irstalling the camera head, secure it with the mounting holes at the bottom (M3 thread, depth 3.5 mm) or	
on a rigid tripod connected to the tripod mount attached to the base of the camera head. Ensure that the camera	
head is not pulled by the camera cable connected to the rear of the camera. Also do not apply any force or strain on the cable connector. When mounting a heavy lens to the camera, support the lens so that it is not applying any	<u>⊢ i si s</u>
on the cable contractor, when mounting a nearly reis to the camera, support the reis so that it is not applying any force or strain on the camera head.	
(2000 lx, 3000K at 59.94Hz setting)	
Length m Length inch	-{-{
Approx.3	
Approx.118	
Approx.6	
Approx.236	
Approx.10 Approx.394	, , , , , , , , , , , , , , , , , , ,
Approx.15	
Approx.591	
Unit : mm (inch)	
	ba ♥ ø [™] –-∔≁ [
29.5(1.16)	
Side	1
^{3-5[0.14]} 24-5[0.97] 14-75 2-M2	
2-M2 Threaded hole	
[0.58]	
Depth 3.5 (1/4-20UNC)	
(0.14)	
Bottom	
Ø : diameter hole	
4-	
2.2 — — — — — — — — — — — — — — — — — —	

Related Manuals for Toshiba IK-HR3H

Camera Accessories Toshiba IK-TF5H Instruction Manual 3ccd camera head (1 page) Camera Accessories Toshiba IK-HD1D Instruction Manual Camera control unit (35 pages) Camera Accessories Toshiba IK-UM44H Instruction Manual Micro camera head (1 page) Camera Accessories Toshiba IK - HD1C Instruction Manual Camera control unit (35 pages) Camera Accessories Toshiba IK - TU51CU Instruction Manual Camera control unit (53 pages) Camera Accessories Toshiba TCB-BT1UPE Instruction Manual Battery kit (2 pages) Camera Accessories Toshiba TLP848 Product Manual Toshiba photointerrupter infrared led + phototransistor product manual (12 pages) Camera Accessories Toshiba BU1203MC User Manual (53 pages) Camera Accessories Toshiba UP423467 Installation Instructions Battery for e400 (2 pages) Camera Accessories Toshiba JK-H01A Instruction Manual Camera housing (6 pages)