





## Toshiba IK-HD1 Specification

Rs-232c communication specifications



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# RS-232C communication specifications for IK-HD1C

## 1 Communication data specifications

Synchronization system

Baud rate

Data length

Parity

Start bit

Stop bit

Direction of transmission

Handshake function

## 2 Terminal names ( camera side )

Name

Direction of signal

TXD




## Camera to PC

RXD

PC to camera

GND

GND

### 3 Method of connection

## Camera

TXD

RXD

GND

Asynchronous

9600 bps / 19200 bps

8 bits

None

1 bit

1 bit

LSB first

None

—

—

PC RS-232C

RXD

TXD

GND

2007.05.30

ronous	
ps / 19200 bps	
st	

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(24 pages)

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3 ccd color camera (40 pages)

## Summary of Contents for Toshiba IK-HD1

[Page 1](#) RS-232C communication specifications for IK-HD1C 1□ Communication data specifications Synchronization system Baud rate Data length Parity Start bit Stop bit Direction of transmission Handshake function 2□ Terminal names ( camera side ) Name Direction of signal Camera to PC PC to camera –...

[Page 2](#) 4.Communication procedure 4-1. Camera communications consist of receiving a four-byte command code from the PC and then communicating a four-byte return code from the camera. \* Transmitting any of the following commands before a return code transmission will

cause that command to be ignored (unidentified)..

[Page 3](#) 5. Command code (PC to camera) Item Transmitted data 1st byte 2nd byte SWITCH ☐ H MEMORY ADDRESS ADDRESS ADDRESS The tables in 10 and 11 (on page 7 and later) notate the data H first, then L. You should however transmit the data L first, then H. 3rd Byte 4th byte DISP...

[Page 4](#) If you transmit the KEY LOCK command (4B 0D FF FF or 4B 0E FF FF), you can not operate by KEY LOCK switch on the rear panel until the following actions are performed. ☐ Disconnect a cable of RS-232C. ☐...

[Page 5](#) 6 ☐ Return code ☐ Camera to PC ☐ Item 1st byte NORMAL ERROR A camera mode error (15H 03H FFH FFH) can be caused by any of the following: Command Command item category Operation DISP switch system PAGE MENU UP MENU DOWN DATA UP DATA DOWN FILE AWB START...

[Page 6](#) 7 ☐ AWB ☐ To start AWB, take an image of a white subject and transmit an AWB SART command under the following conditions: ●The WB mode should be AWB. ●The camera screen (a live image) should be on. ☐ The OSD PAGE data should be 00H. ☐ ●AWB ☐ ABB ☐ SHD should not be under execution.

[Page 7](#) 9 ☐ ASHD (AUTO SHADING) 1) To start AUTO SHADING, transmit an ASHD START command under the following conditions: ●SHADING setting of OPTION should be SET.( OPTION SHADING MODE data should be 00H.) ●The camera screen (a live image) should be on. ☐ OSD PAGE data should be 00H. ☐ ●AWB ☐ ABB ☐ SHD should not be under execution.

[Page 8](#) 11 ☐ ADDRESS ☐ DATA (1st byte ☐ 05H ☐ 53H) Item Address SHUTTER MODE LEVEL PEAK/AVE SPEED AREA MANUAL SYNCHRO SCAN Data ☐ ☐ H AUTO Sets the SHUTTER MODE and EXT TRIG mode. AUTO ☐ Auto shutter MANU MANU ☐ Manual mode SS ☐ Synchronous scan mode ☐ ☐ H -100 Adjusts the automatic shutter level. ↓...

[Page 9](#) 0231H Shutter speed 1/60...

[Page 10](#) Item Address GAIN MODE AUTO MAX MANU WHITE MODE BALANCE C.TEMP R PAINT B PAINT AREA Data Action ☐ ☐ H AUTO Sets the master gain mode. MANUAL ☐ ☐ H 00dB Sets the maximum gain when the master gain is AUTO mode. ↓ ↓...

[Page 11](#) Item Address WHITE R GAIN BALANCE B GAIN R PAINT B PAINT R DATA READ B DATA READ Data Action FF9CH -100 Sets the RED gain in MANUAL mode. ↓ ↓ 0000H ↓ ↓ 0064H FF9CH -100 Sets the BLUE gain in MANUAL mode. ↓...

[Page 12](#) Item Address PROCESS GAMMA ON/OFF GAMMA DTL GAIN M ☐ PED Data ☐ ☐ H Gamma correction setting : ON/OFF ☐ ☐ H Gamma correction level setting ↓ ↓ ↓ ↓ ☐ ☐ H DTL gain setting ↓ ↓ ↓ ↓ ☐ ☐ H -100 Master pedestal setting ↓ ↓ ↓...

[Page 13](#) Item Address MATRIX MATRIX ON/OFF R HUE R GAIN G HUE G GAIN B HUE B GAIN Data Action ☐ ☐ H Matrix color correction : ON/OFF ☐ ☐ H Red hue setting ↓ ↓ ↓ ↓ ☐ ☐ H Red gain setting ↓ ↓ ↓ ↓...

[Page 14](#) Item Address MATRIX Ye HUE Ye GAIN Cy HUE Cy GAIN Mg HUE Mg GAIN Data Action ☐ ☐ H Yellow hue setting ↓ ↓ ↓ ↓ ☐ ☐ H Yellow gain setting ↓ ↓ ↓ ↓ ☐ ☐ H Cyan hue setting ↓ ↓ ↓ ↓...

[Page 15](#) Item ADDRESS SYNC H PHASE OPTION OUTPUT SHADING (MODE) MANU SHADING SYNC BAUD RATE DATA Action FC00H -1024 Adjusts H phase with external sync signal. ↓ ↓ 0000H ↓ ↓ 03FFH 1023 ☐ ☐ H Changes output mode. Y/PR/PB ☐ ☐ H Sets shading correction mode. MANU ☐ ☐ H -128...

[Page 16](#) Item Address SCENE FILE Data Action ☐ ☐ H FILE A Selects a scene file. FILE B FILE C FILE D FILE E...

[Page 17](#) Item Address GAIN READ KEY LOCK READ AUTO READ Data Action 00dB Master gain ↓ ↓ 18dB KEY LOCK ON Key lock mode. (It may differ from the switch position by the remote

settings.) KEY LOCK OFF AWB in progress. The final result of AWB is accepted.

[Page 18](#) Item Address OSD PAGE → POINT Data Action OSD OFF(a live image) INDEX  
SHUTTER GAIN WHITE BALANCE PROCESS MATRIX SYNC OPTION COLOR BAR 1st ITEM to 13th  
ITEM ↓ The position of → for the each MENU. (1st to 13th from the top.)

This manual is also suitable for:

lk-hd1c