

SONY®

HD DIGITAL TRIAX CCU ADAPTOR

HDFX200

HD DIGITAL TRIAX CAMERA ADAPTOR

HDTX200

Digital **HDVS**

OPERATION MANUAL English

1st Edition (Revised 1)

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Overview

The HD Digital Triax CCU Adaptor HDFX200 and HD Triax Camera Adaptor HDTX200 are designed for connecting a camera to a camera control unit and converting the link format between them from optical fiber to Triax.

The HDFX200 can be connected by optical fiber and Triax, and switched remotely between them for the useful function of Outdoor Broadcasting.

The HDTX200 links the optical fiber connector of the HD camera to the Triax connector of the HD Digital Triax CCU Adaptor HDFX200, providing the required conversion.

Rack mount capable

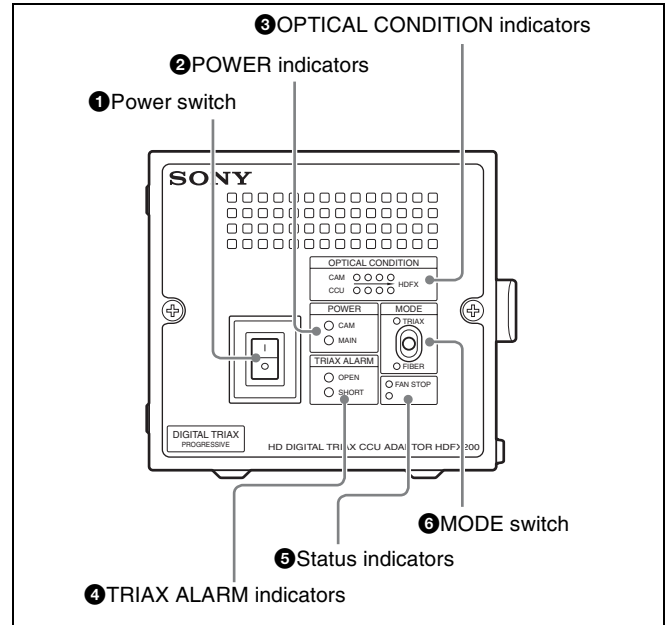
The HDFX200 can be installed in a standard EIA 19-inch rack (up to three units in 3U space).

For details on rack mounting, contact a Sony Service representative or Sales representative.

Locations and Functions of Parts

HDFX200

Front panel



❶ Power switch

This switch controls power to the entire system including the HDFX200, video camera, HD Digital Triax Camera Adaptor HDTX200, etc. In the “I” position, power is on. In the “O” position, power is off.

❷ POWER indicators

When power is on, the MAIN indicator and CAM indicator light up. When the CAM POWER switch on the Master Setup Unit or the Remote Control Panel is pressed, only the camera power is turned off and the CAM indicator goes out.

❸ OPTICAL CONDITION indicators

Displays the optical signal receiving condition of the HDFX200 from a camera or Camera Control Unit.

- Two green indicators light up (3rd and 4th indicators): Reception is very good.
- One green indicator lights up (3rd indicator): Reception is good.
- The yellow indicator lights up (2nd indicator): Reception is poor.
- The red indicator lights up (1st indicator): Reception is very poor.

④ TRIAX ALARM indicators

OPEN (red):

Lights up when neither a camera nor the HDTX200 is connected via the Triax cable.

SHORT (red):

Lights up when one of the power supply lines of the Triax cable is shorted to the outer shield, or when there is a short between the power supply lines. While the indicator is lit, the camera is not powered.

⑤ Status indicators

FAN STOP (red):

Lights up when the ventilator fan has stopped.

⑥ MODE switch

TRIAX:

The TRIAX indicator lights up in green. The HDFX200 powers a camera that is connected to the CAM TRIAX connector, and transmits/receives signals between the HDFX200 and the camera with the TRIAX cable.

FIBER:

The FIBER indicator lights up in green. The camera control unit powers a camera that is connected to the CAM FIBER connector of the HDFX200, and transmits/receives signals between the HDFX200 and the camera with the optical fiber cable.

② CAM FIBER connector (Optical fiber connector)

This is an optical fiber connector for the link to the HD Color Camera.

③ CCU (Camera Control Unit) connector (Optical fiber connector)

This is an optical fiber connector for the link to the Camera Control Unit. Power, control signals, video signals, audio signals etc., can be carried over a single link.

Note

If there is dust or other contamination on the connection face for the optical fiber cable, transmission errors will occur. Be sure to protect the connector with the supplied cover when not in use.

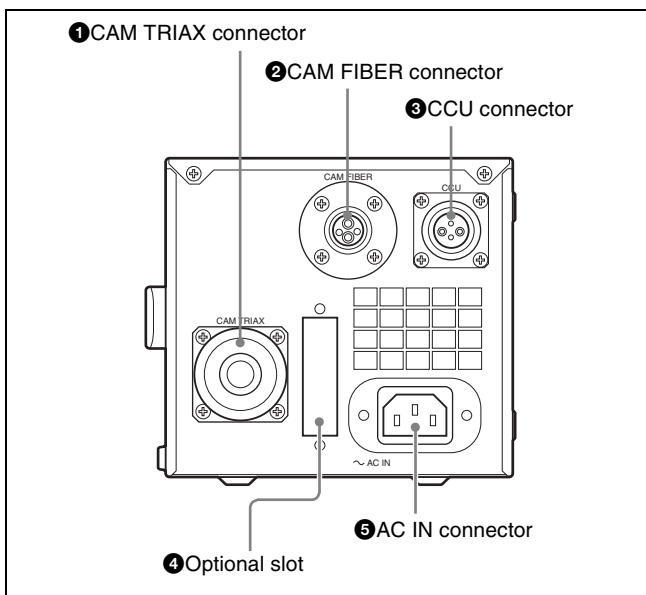
④ Optional slot

For the future expansion.

⑤ AC IN connector

Use the supplied power cord to connect this to an AC outlet. The supplied plug holder can be used to fasten the power cord to the unit.

Rear panel

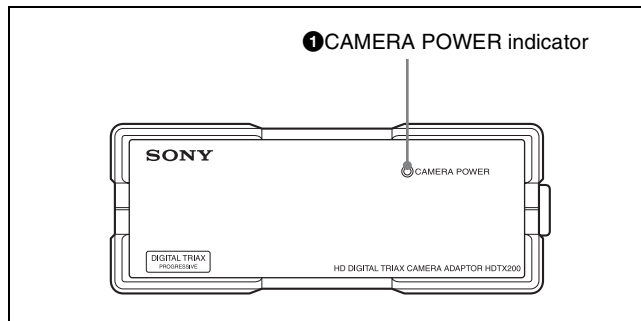


① CAM TRIAX connector (Triax connector)

This is a Triax cable connector for the link to the HD Digital Triax Camera or HD Digital Triax Camera Adaptor HDTX200.

HDTX200

Front panel



1 CAMERA POWER (camera power) indicator

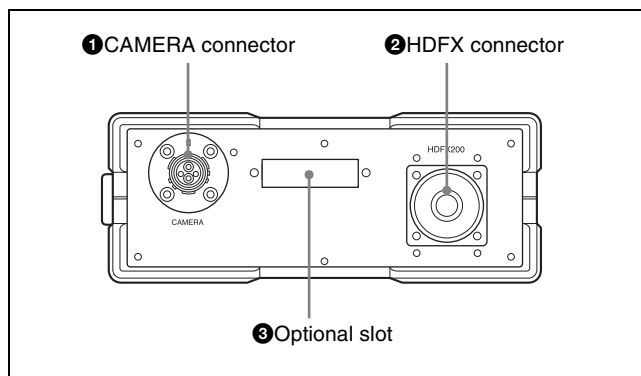
Indicates the power supply status of the video camera.

Green: The indicator is lit in green when power is being supplied to the video camera.

Flashing red: Shows the condition of optical signal reception at the rear-panel CAMERA connector for the video camera. When there is a problem, the indicator flashes. Fast flashing indicates a hazard-level problem, and slow flashing indicates an alert-level problem.

Red: The indicator is lit in red when the ventilator fan has stopped.

Rear panel



1 CAMERA connector (optical fiber connector)

This is an optical fiber connector for the link to the video camera. Power, control signals, video signals, audio signals etc. can be carried over a single link.

Note

When there is dust or other contamination on the connection face for the optical fiber cable, transmission errors will occur. Be sure to protect the connector with the supplied cover when not in use.

2 HDFX (HD Triax CCU Adaptor) connector (Triax connector)

This is a Triax cable connector for the link to the HD Digital Triax CCU Adaptor HDFX200.

3 Optional slot

For the future expansion.

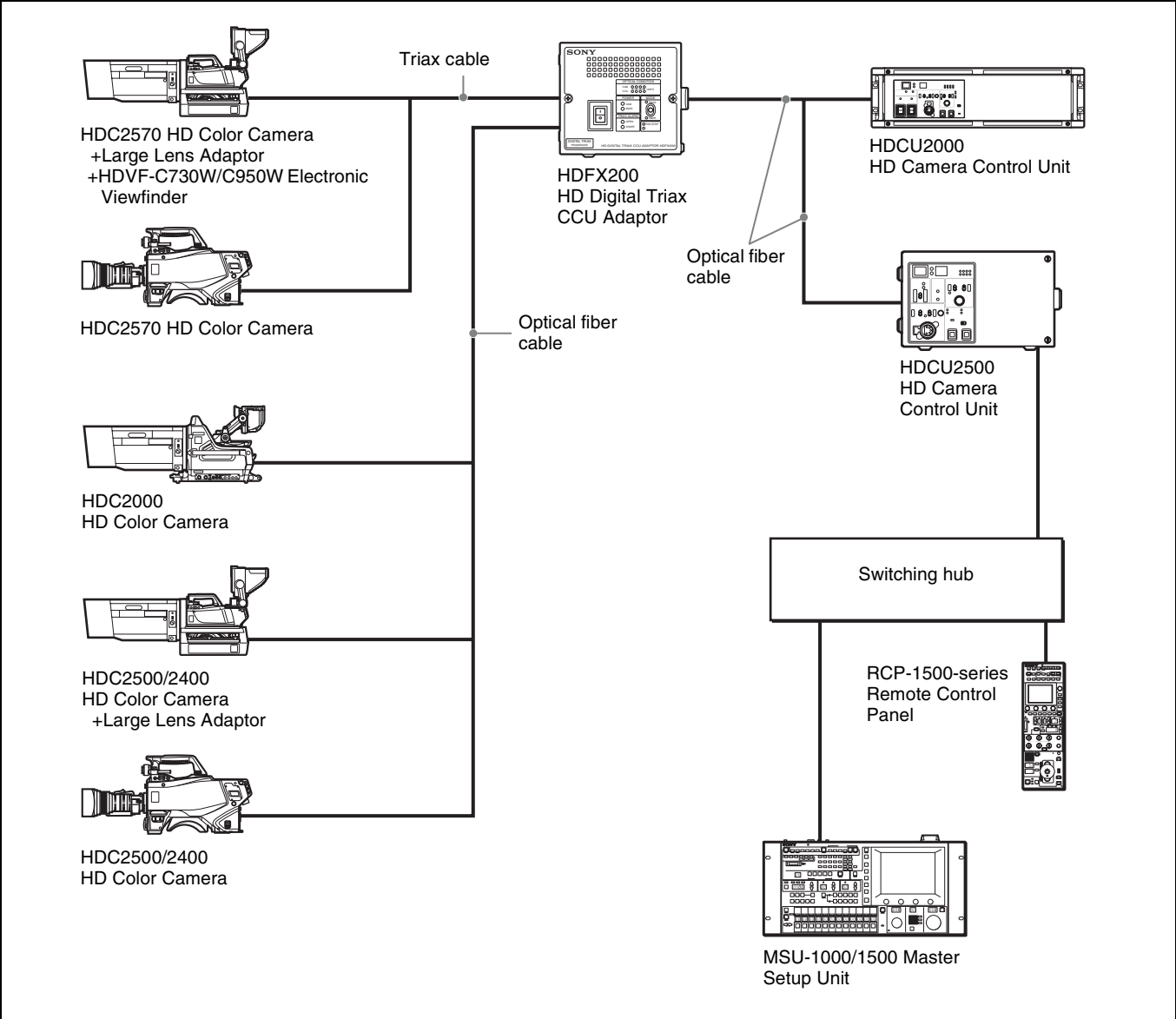
System Configuration Example

Notes

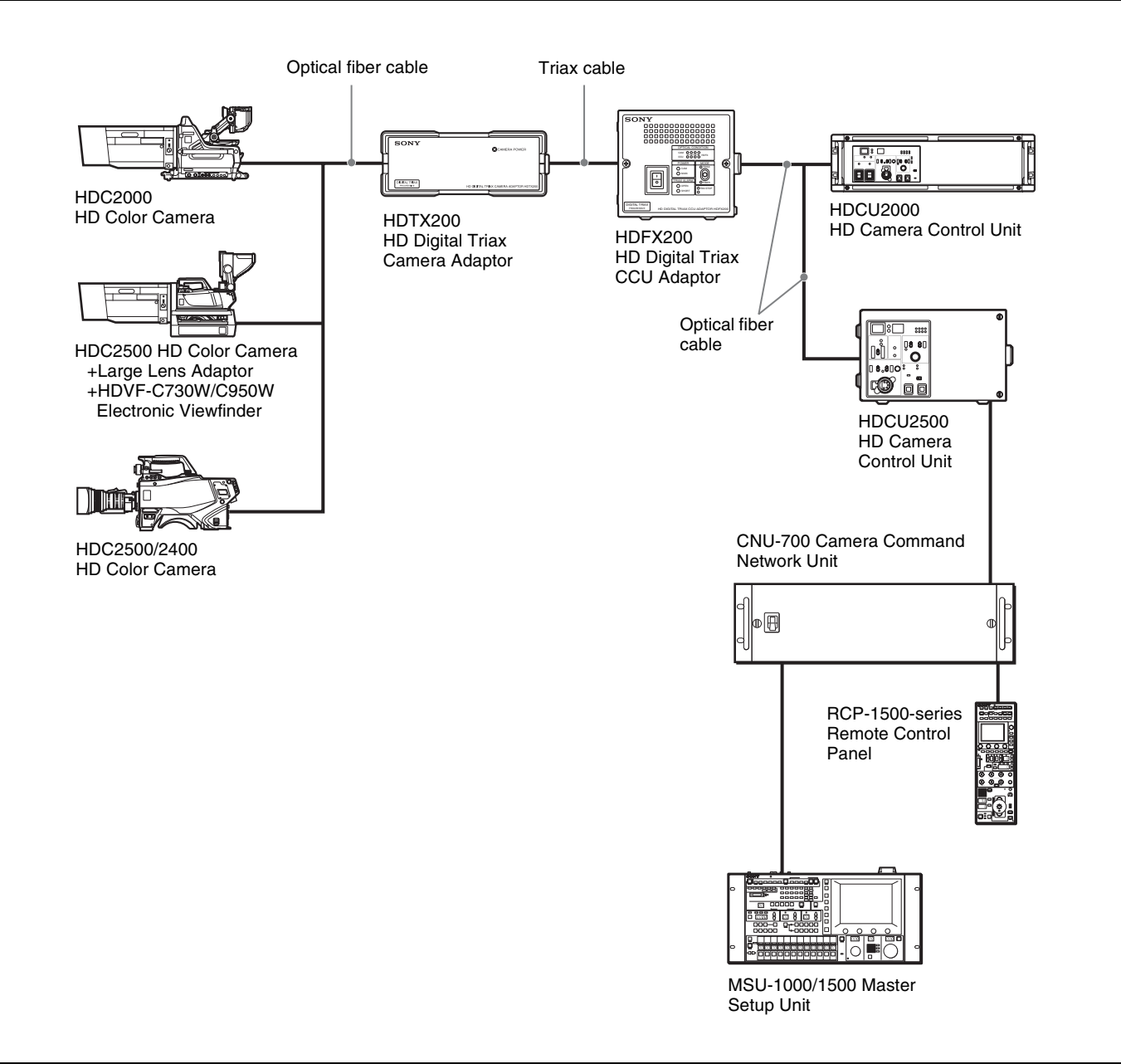
Production of some of the peripherals and related devices described below has been discontinued. For advice about choosing devices, please contact your Sony dealer or a Sony sales representative.

Extension system using optical fiber cable and Triax cable

Example 1



Example 2



Usage Precautions

If the unit is suddenly taken from a cold to a warm location, or if ambient temperature suddenly rises, moisture may form on the outer surface of the unit and/or inside of the unit. This is known as condensation. If condensation occurs, turn off the unit and wait until the condensation clears before operating the unit. Operating the unit while condensation is present may damage the unit.

The life expectancy of the electrolytic capacitor is about 5 years under normal operating temperatures and normal usage (8 hours per day; 25 days per month). If usage exceeds the above normal usage frequency, the life expectancy may be reduced correspondingly.

Installation environment

Make sure that the installation environment fulfills the following requirements:

- Dry and well ventilated
- Not subject to high temperatures or close to heat sources
- Not subject to strong electric or magnetic fields
- Not exposed to direct sunlight, strong lamps or similar

To prevent electromagnetic interference from portable communications devices

The use of cellular phones and other communications devices near this camera can result in malfunctions and interference with audio and video signals. It is recommended that the portable communications devices near this camera be powered off.

Digital Triax Transmission

A powerful error-correction function is incorporated for the transmission between the camera and CCU. However, if an error occurs on long-distance transmission because of external noise or for some other reason, the compensation by interpolation that partially uses the previous picture may operate.

In digital triax transmission, the following video delay in transmission may occur:

- The video delay in transmission between the camera and the CCU is approx. 9 msec to 12 msec.
- A delay of about 1 frame occurs on the viewfinder display if a camera image is sent back from the CCU to the camera as a return signal.
- The prompter video will delay approx. 3 frames. There will be some changes in picture quality and active area, and dropped frames may occur depending on the type of prompter video.
- An appropriate delay is applied to the MIC 1 and 2 audio signals from the CCU according to the video delay.
- It takes a certain time until the video signal transmitted between the camera and the CCU becomes stable after power is applied. This is not a malfunction.

Triax transmission distances

The maximum and minimum transmission distances allowed for triax cable connection are shown in the table below. The distances may vary according to the conditions, such as the total power requirements (including the power supply to the camera from the HDFX200) and cable degradation.

Allowable transmission range when using triax cables with the following characteristics:

Attenuation: 3.8 dB to 53.2 dB at 100 MHz (including the loss at connectors)

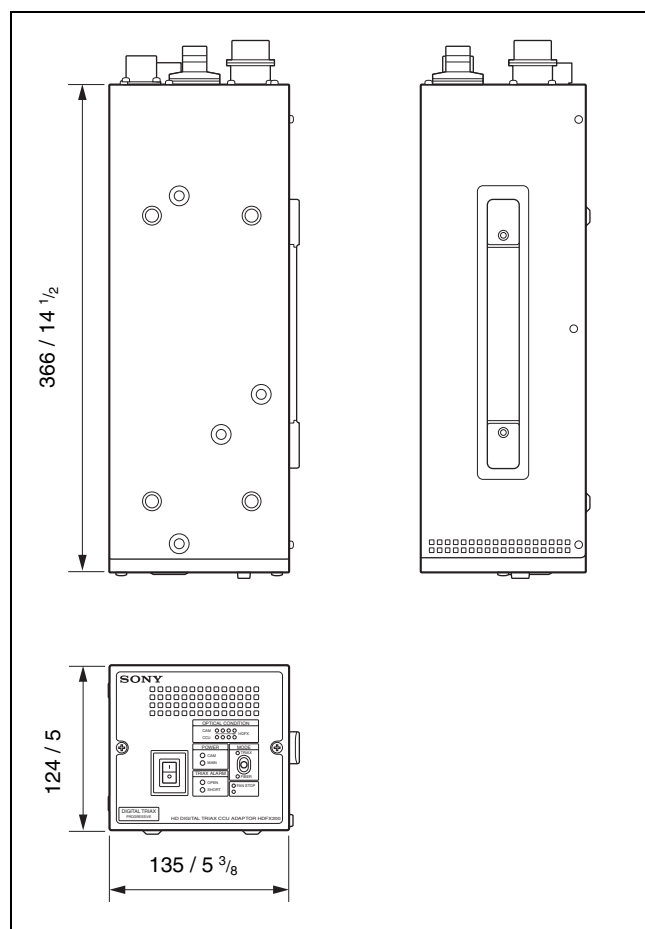
Cable (for example)		Max. distance	Min. distance
Fujikura	8.5-mm dia.	700 m (2297 ft)	50 m (164 ft)
Fujikura	14.5-mm dia.	1400 m (4593 ft)	100 m (328 ft)
Belden 9232	13.2-mm dia.	1000 m (3281 ft)	75 m (246 ft)

Specifications

HDFX200

General

Power supply 100 to 240 V AC, 50/60 Hz
 Current consumption 4.5 A max.
 Operating temperature 5 °C to 40 °C (41 °F to 104 °F)
 Storage temperature -20 °C to +60 °C (-4 °F to +140 °F)
 Mass approx. 5.7 kg (12 lb. 9 oz.)
 Dimensional drawing (unit: mm/inches)



Input/output connectors

CAM TRIAX • For customers in the USA and Canada
 King Triax connector (1)
 • For customers in the European countries
 Fischer Triax connector (1)
 CAM FIBER Lemo optical/electrical multi-connector (1)
 CCU Lemo optical/electrical multi-connector (1)

Input connector

AC IN 100 - 240 V AC connector (1)

Signals carried

CAMERA → CCU
 • Camera Video
 • Audio (INCOM, MIC)
 CCU → CAMERA
 • Power
 • Return Video
 • Prompter Video
 • Audio (INCOM, PGM)

Supplied accessories

B4 × 8 screw (4)
 Operation guide (1)
 Operation manual (CD-ROM) (1)

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HDTX200

General

Power supply 180 V DC (supplied from HDFX200)

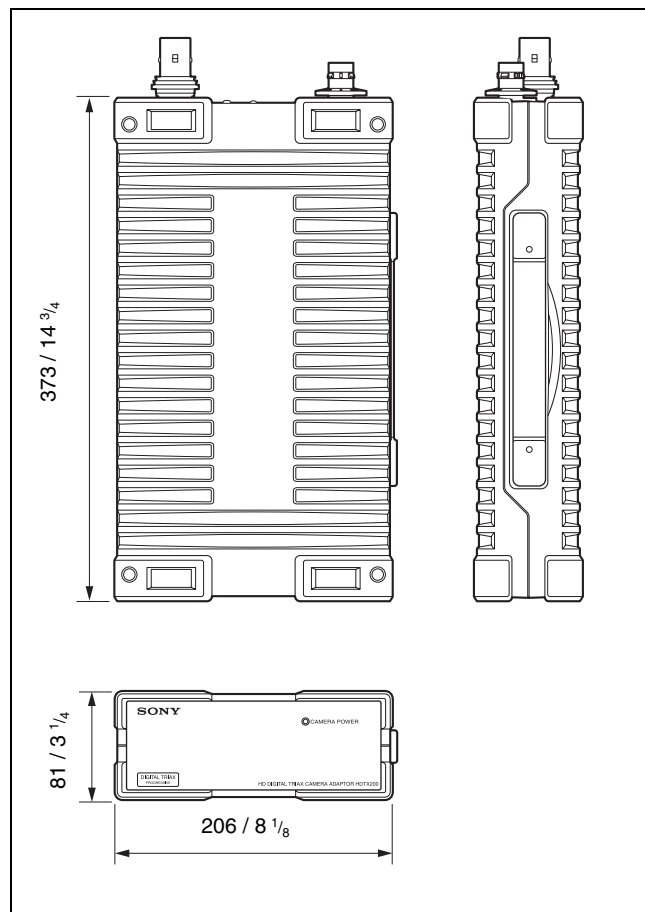
Current consumption
0.2 A max.

Operating temperature
-20 °C to +45 °C (-4 °F to +113 °F)

Storage temperature
-20 °C to +60 °C (-4 °F to +140 °F)

Mass approx. 4.1 kg (9 lb. 0.6 oz.)

Dimensional drawing (unit: mm/inches)



Input/output connectors

- CAMERA Lemo optical/electrical multi-connector (1)
- HDFX
- For customers in the USA and Canada King Triax connector (1)
 - For customers in the European countries Fischer Triax connector (1)

Signals carried

CAMERA → CCU

- Audio (INCOM, MIC)
- Camera Video

CCU → CAMERA

- Power
- Audio (INCOM, PGM)
- Return Video
- Prompter Video

Supplied accessories

- Operation guide (1)
- Operation manual (CD-ROM) (1)

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Notes

- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
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acl	glibc-libpthread_ptt	net-tools
attr	gpm	nfs-utils
base-files	grep	opkg
base-passwd	initscripts	oprofile
bash	iptables	procinfo
blktrace	iputils	procps
busybox	ksymoops	pump
compcache	less	setserial
coreutils	libcap	sysvinit
diffutils	libtool	tar
directfb	libusb	time
dosfstools	linux-kernel	tofstools
e2fsprogs	lzo	u-boot
ethtool	makedevs	usbutils
findutils	memstat	util-linux-ng
fuse	minicom	vim
gawk	mkcramfs	vsftpd
gdisk	module-init-tools	which
glib	mtd-utils	wireless-tools
glibc	netbase	xz

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[Tatu continues]

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- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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