

**SONY®**

HD DIGITAL TRIAX CCU ADAPTOR

# **HDFX200**

*Digital* **HDVS**

OPERATION MANUAL English

**1st Edition**



4466870010

## **WARNING**

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

**THIS APPARATUS MUST BE EARTHED.**

## **AVERTISSEMENT**

Afin de réduire les risques d'incendie ou d'électrocution, ne pas exposer cet appareil à la pluie ou à l'humidité.

Afin d'écartier tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

**CET APPAREIL DOIT ÊTRE RELIÉ À LA TERRE.**

## **WARNUNG**

Um die Gefahr von Bränden oder elektrischen Schlägen zu verringern, darf dieses Gerät nicht Regen oder Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden.

**Überlassen Sie  
Wartungsarbeiten stets nur  
qualifiziertem Fachpersonal.**

**DIESES GERÄT MUSS GEERDET  
WERDEN.**



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: THIS WARNING IS APPLICABLE FOR USA ONLY.**

If used in USA, use the UL LISTED power cord specified below. DO NOT USE ANY OTHER POWER CORD.

Plug Cap	Parallel blade with ground pin (NEMA 5-15P Configuration)
Cord	Type SJT, three 16 or 18 AWG wires
Length	Minimum 1.5 m (4 ft. 11 in.), Less than 2.5 m (8 ft. 3 in.)
Rating	Minimum 10A, 125V

Using this unit at a voltage other than 120V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

**WARNING: THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.**

1. Use the approved Power Cord (3-core mains lead)/Appliance Connector/Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
2. Use the Power Cord (3-core mains lead)/Appliance Connector/Plug conforming to the proper ratings (Voltage, Ampere).

If you have questions on the use of the above Power Cord/Appliance Connector/Plug, please consult a qualified service personnel.

## AVERTISSEMENT

1. Utilisez un cordon d'alimentation (câble secteur à 3 fils)/fiche femelle/ fiche mâle avec des contacts de mise à la terre conformes à la réglementation de sécurité locale applicable.
2. Utilisez un cordon d'alimentation (câble secteur à 3 fils)/fiche femelle/ fiche mâle avec des caractéristiques nominales (tension, ampérage) appropriées.

Pour toute question sur l'utilisation du cordon d'alimentation/fiche femelle/ fiche mâle ci-dessus, consultez un technicien du service après-vente qualifié.

## WARNUNG

1. Verwenden Sie ein geprüftes Netzkabel (3-adriges Stromkabel)/ einen geprüften Geräteanschluss/ einen geprüften Stecker mit Schutzkontakten entsprechend den Sicherheitsvorschriften, die im betreffenden Land gelten.

2. Verwenden Sie ein Netzkabel (3-adriges Stromkabel)/einen Geräteanschluss/einen Stecker mit den geeigneten Anschlusswerten (Volt, Ampere).

Wenn Sie Fragen zur Verwendung von Netzkabel/Geräteanschluss/Stecker haben, wenden Sie sich bitte an qualifiziertes Kundendienstpersonal.

## For kundene i Norge

Dette utstyret kan kobles til et IT-strømfordelingssystem.



标识含义：加贴该标识的设备仅按海拔2000m进行安全设计与评估，因此，仅适用于在海拔2000m以下安全使用，在海拔2000m以上使用时，可能有安全隐患。



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This HD Digital Triax CCU Adaptor is classified as a CLASS 1 LASER PRODUCT.

Dieser digitale HD-Triax-CCU-Adapter ist als LASERPRODUKT DER KLASSE 1 eingestuft.

Tämä HD Digital Triax CCU -adapteri on luokiteltu 1. LUOKAN LASERTUOTTEEKSI.

Den här digitala HD-Triax-CCU-adaptter klassificeras som en LASERPRODUKT AV KLASS 1.

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### **CAUTION**

The use of optical instruments with this product will increase eye hazard.

### **For the customers in the U.S.A.**

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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

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.

### **For the customers in Canada**

CAN ICES-3 (A)/NMB-3(A)

### **Pour les clients au Canada**

CAN ICES-3 (A)/NMB-3(A)

### **For the customers in Europe**

This product with the CE marking complies with the EMC Directive issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European standards:

- EN55103-1: Electromagnetic Interference(Emission)
- EN55103-2: Electromagnetic Susceptibility(Immunity)

This product is intended for use in the following Electromagnetic Environment: E4 (controlled EMC environment, ex. TV studio).

### **Pour les clients en Europe**

Ce produit portant la marque CE est conforme à la Directive sur la compatibilité électromagnétique (EMC) émise par la Commission de la Communauté européenne.

La conformité à cette directive implique la conformité aux normes européennes suivantes:

- EN55103-1: Interférences électromagnétiques (émission)
- EN55103-2: Sensibilité électromagnétique (immunité)

Ce produit est prévu pour être utilisé dans l'environnement électromagnétique suivant: E4 (environnement EMC contrôlé, ex. studio de télévision).

### **Für Kunden in Europa**

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt die EMV-Richtlinie der EG-Kommission.

Angewandte Normen:

- EN55103-1: Elektromagnetische Verträglichkeit (Störaussendung)
- EN55103-2: Elektromagnetische Verträglichkeit (Störfestigkeit)

Für die folgende elektromagnetische Umgebung: E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio).

### **For the customers in Europe, Australia and New Zealand**

#### **WARNING**

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

### **Pour les clients en Europe, Australie et Nouvelle-Zélande**

#### **AVERTISSEMENT**

Il s'agit d'un produit de Classe A. Dans un environnement domestique, cet appareil peut provoquer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre des mesures appropriées.

### **Für Kunden in Europa, Australien und Neuseeland**

#### **WARNUNG**

Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

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This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative, Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.

For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

### **Pour les clients en Europe**

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### **Für Kunden in Europa**

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This apparatus shall not be used in the residential area.

Ne pas utiliser cet appareil dans une zone résidentielle.

Dieser Apparat darf nicht im Wohnbereich verwendet werden.

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# Overview

The HD Digital Triax CCU Adaptor HDFX200 is 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.

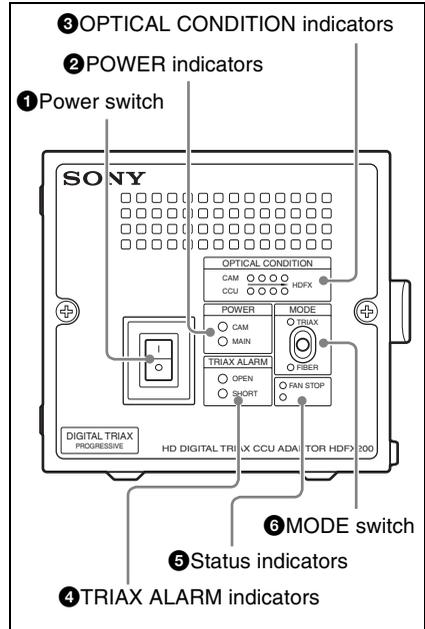
## Rack mount capable

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

## Front panel



### 1 Power switch

This switch controls power to the entire system including the HDFX200, camera, etc. In the “I” position, power is on. In the “O” position, power is off.

### 2 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.

### ③ 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 a camera is not 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

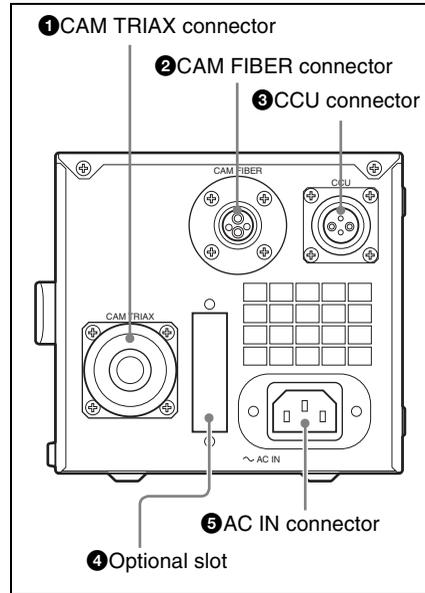
#### TRIAX:

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.

## Rear panel



### ① CAM TRIAX connector (Triax connector)

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

### 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.

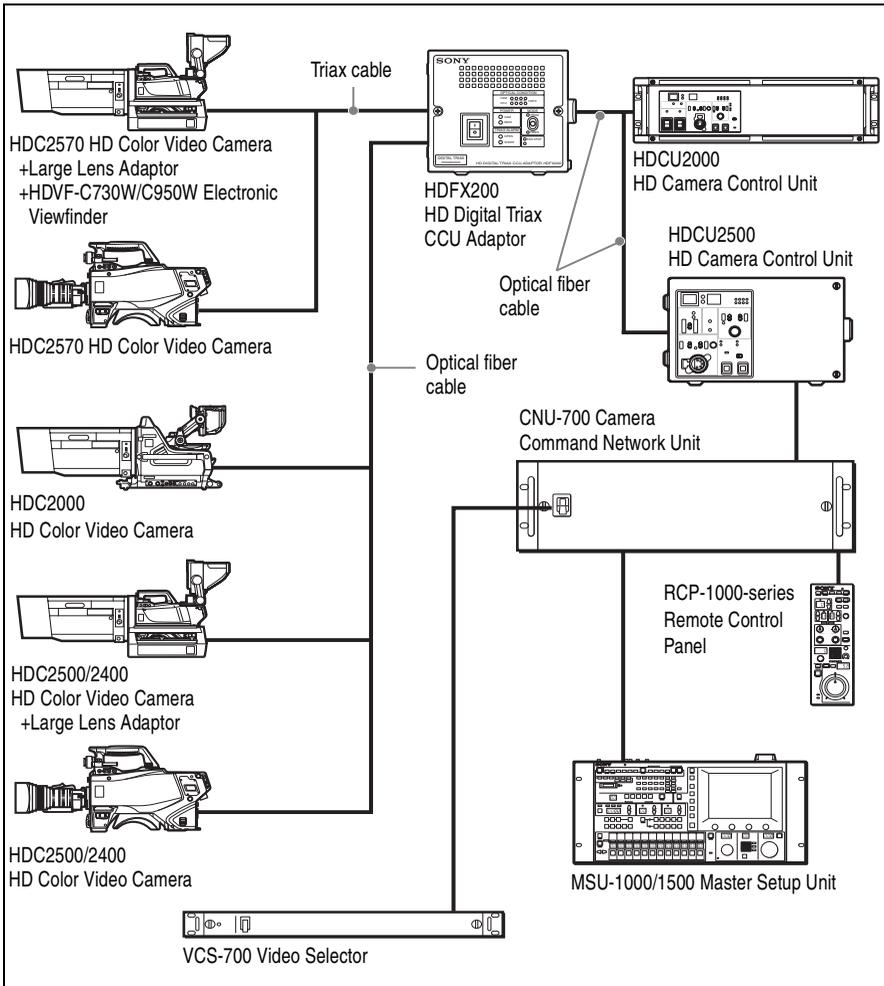
# System Configuration Example

## Note

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



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# Usage Precautions

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## 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

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## 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.

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## 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)

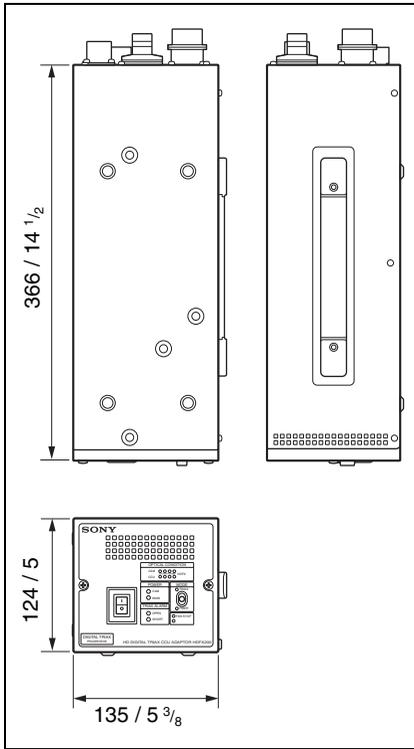
<b>Cable (for example)</b>	<b>Max. distance</b>	<b>Min. distance</b>
Fujikura 8.5-mm dia.	700 m (2297 ft)	50 m (164 ft)
Fujikura 14.5-mm dia.	1400 m (4593 ft)	100 m (328 ft)
Belden 9232 13.2-mm dia.	1000 m (3281 ft)	75 m (246 ft)

# Specifications

## General

Power supply	100 to 240 V AC, 50/60 Hz
Current consumption	4.5 A max.
Inrush current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): 63 A peak, 17 A r.m.s. (240V AC) (2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): 25 A peak, 8 A r.m.s. (240V AC)
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 | <ul style="list-style-type: none"> <li>For customers in the USA and Canada King Triax connector (1)</li> <li>For customers in the European countries Fischer Triax connector (1)</li> </ul> |
| 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
- RET VIDEO
- Prompter Video
- Audio (INCOM, PGM)

## Supplied accessories

B4 × 8 screw (4)  
Operation manual (1)

Connectors for optical/electric composite cables:

- LEMO® PUW.3K.93C.TLCC96 (to the “CAMERA” connector on CCU)
- LEMO® FUW.3K.93C.TLMC96 (to the “CCU” connector on HDFX)
- LEMO® PUW.3K.93C.TLCC96 (to the “CAM FIBER” connector on HDFX)
- LEMO® FUW.3K.93C.TLMC96 (to the “CCU” connector on CAMERA)

## Caution on the optical/electric composite cable:

For connection between the triax CCU adaptor and camera, or between the triax CCU adaptor and camera control unit, be sure to use an optical/electric signal composite cable with the connectors specified in this manual in order to comply with the limit for EMC regulations.

Connecteurs pour les câbles optiques/  
électriques composites :

- LEMO® PUW.3K.93C.TLCC96  
(au connecteur « CAMERA » de l'unité  
de commande de caméra)
- LEMO® FUW.3K.93C.TLMC96  
(au connecteur « CCU » du HDFX)
- LEMO® PUW.3K.93C.TLCC96  
(au connecteur « CAM FIBER » du  
HDFX)
- LEMO® FUW.3K.93C.TLMC96  
(au connecteur « CCU » de la caméra)

**Attention concernant le câble optique/  
électrique composite :**

Pour la connexion entre l'adaptateur de  
l'unité de commande de caméra triaxial et  
la caméra, ou entre l'adaptateur de l'unité  
de commande de caméra triaxial et l'unité  
de commande de caméra, utilisez un câble  
optique/électrique composite avec  
connecteurs spécifiés dans ce manuel pour  
assurer la conformité avec la  
réglementation EMC.

Anschlüsse für optische/elektrische FBAS-  
Kabel:

- LEMO® PUW.3K.93C.TLCC96  
(an „CAMERA“-Anschluss an der  
Kamerasteuereinheit)
- LEMO® FUW.3K.93C.TLMC96  
(an „CCU“-Anschluss am HDFX)
- LEMO® PUW.3K.93C.TLCC96  
(an „CAM FIBER“-Anschluss am  
HDFX)
- LEMO® FUW.3K.93C.TLMC96  
(an „CCU“-Anschluss an der KAMERA)

**Vorsichtsmaßnahmen für optische/  
elektrische FBAS-Kabel:**

Für Verbindung zwischen Triax-CCU-  
Adapter und Kamera bzw. zwischen Triax-  
CCU-Adapter und Kamerasteuereinheit  
verwenden Sie immer ein optisches/  
elektrisches FBAS-Kabel mit Steckern, wie  
in dieser Anleitung beschrieben, um die

Grenzwerte der geltenden EMV-  
Vorschriften zu erfüllen.

Design and specifications are subject to  
change without notice.

**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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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 AC adapter and 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.

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## Package list

acl	glibe-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	toftodos
e2fsprogs	lzo	u-boot
ethtool	makedevs	usbutils
findutils	memstat	util-linux-ng
fuse	minicom	vim
gawk	mkcramfs	vsftpd
gdisk	module-init-tools	which
glib	mtt-utils	wireless-tools
glibc	netbase	xz

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