



Owner's Manual

DVD-RAM drive unit with built-in HDD

Model **EX12**



Introduction

Thank you very much for purchasing the Fostex Model EX12. The EX12 is a DVD-RAM drive unit dedicated to the PD-6. It incorporates a 12-cm DVD-RAM drive with a 2.5-inch HDD. By connecting the EX12 to your PD-6, you can use two more drives dedicated to the PD-6, in addition to the PD-6 internal DVD-RAM drive.



Before using the EX12, read this manual carefully. We would be very happy if the unit is helpful to you.

<Note>

To use the EX12, the PD-6 software version must be V2.00 or higher. If the software version of your PD-6 is lower than V2.00, ask your local Fostex dealer or sale office for upgrade.

The built-in HDD is formatted in the "Normal" mode when shipped. This means, the HDD is divided into eight partitions, each of which reserves approximately 4.7 GB capacity.

For details about how to use the EX12 with the PD-6, see "V2.0 supplement" supplied with the PD-6.

	CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN		
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER - SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

"WARNING"

"TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation.
For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

<p>CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.</p> <p>ATTENTION: POUR ÉVITER LES CHÔCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.</p>



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
14. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
18. The appliance should be situated away from drops of water or spray of water.
19. Objects containing liquid such as vase must not be put on the appliance.
20. The appliance is not completely isolated from the power supply even if the power switch is at off position.

Precautions

- Make sure that the voltage of your AC power outlet matches the voltage requirements printed on the unit.
- When disconnecting the AC cable, make sure that the unit [POWER] switch is set to "OFF".
Disconnecting the AC cable while the power is "ON" may damage data because the unit always transfers data between the current card and memory.
- While the unit is accessing the DVD-RAM disk or internal HDD (for example, during recording), never turn off the power. Make sure that the unit completely stops accessing the disk before you turn off the power. Otherwise, recorded data may be lost, as well as the DVD-RAM disk and internal HDD may be damaged.

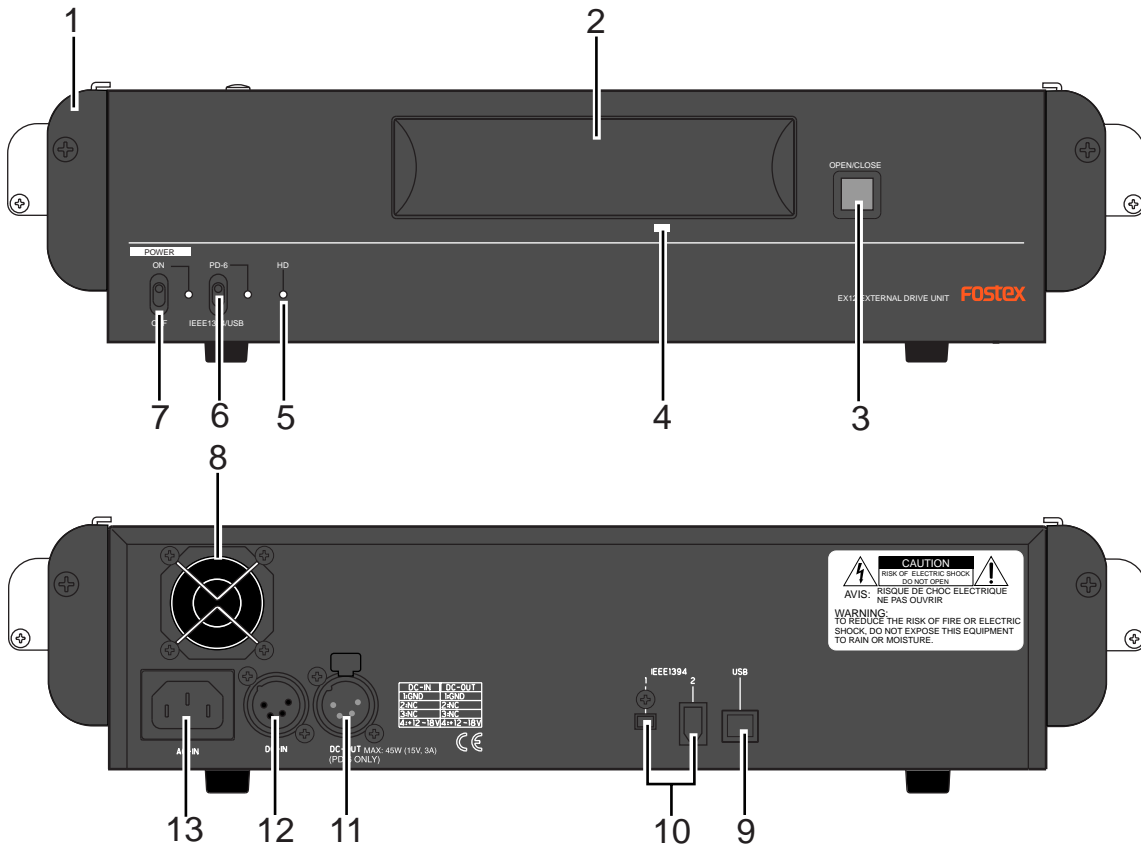
Note that Fostex assumes no responsibility on data loss or whatsoever due to use of the unit.

- Fostex is not responsible for any "**direct damage**" or "**indirect damage**" caused by using the unit.
- Do not let water or other liquid, or metal objects such as pins, accidentally enter the inside of the unit (especially inside of the card slots) because this may lead to electric shock or damage. Should water enter the inside of the unit, turn off the power, unplug the AC cable, and consult your dealer or the nearest FOSTEX service station.
- Do not drop the unit or give it a strong shock. The internal circuits may be damaged. Although the unit is designed to operate outside, handle the unit with great care because it is a precision machine.
- To prevent possible electric shock and damage to the unit, do not remove the cover or reach the inside of the unit.
- When using the supplied carrying belt, to prevent the unit from dropping accidentally, make sure that it is attached to the unit correctly.

Precautions on installation

- **Do not install the unit in the following conditions.**
 - in a extremely hot or cold place
 - in a moist place
 - in a shaky or unstable place
 - in a dusty place
 - in a strong magnetic field or near a device which generates a magnetic field
 - in the direct sunshine
 - in the direct rain or water
- **Notes on moisture condensation**
When you bring the unit from a cold place to a warm place, moisture may condense on the drive, display, panels, etc. In such a case, leave the unit for a while until it warms up and evaporates any moisture.

Names and functions



1) Fastenings

The left and right fastenings are used to fasten the EX12 and PD-6 when stacking them up. (See the next page for details.)

2) Disk tray

You can set a DVD-RAM disk on the tray.

3) [OPEN/CLOSE] key

Pressing this key opens or closes the disk tray. Do not press this key while the disc is being accessed, which may destroy the disc contents.

4) Access indicator

Flashes while the DVD-RAM disk is being accessed.

5) [HD] indicator

Flashes while the built-in HDD is being accessed.

6) PD-6/IEEE1394 USB select switch

Selects "PD-6" or "IEEE1394 USB" according to the situation.

PD-6	Set the selector to this position when you use the EX12 as a recording/playback drive for the PD-6.
IEEE1394 USB	Set the selector to this position when exporting a file recorded on a DVD-RAM disk set on the EX12 to your PC.

<Notes> While the EX12 is in operation (i.e. during recording or playback using the EX12 HDD or DVD-RAM drive, or while exporting or importing data), do not switch the selector position, which may cause malfunction.

7) Power switch

Turns on or off the power of the unit.

8) Cooling fan

9) [USB] port

Used to connect to a PC via USB.

10) [IEEE1394] ports

Two IEEE1394 connectors of different types are provided. You can use either of the connectors according to your PC.

<Notes> Never use the IEEE1394 and USB ports simultaneously. Also note that you cannot use the [USB] and [IEEE1394] ports while the selector is set to "PD-6".

11) [DC OUT (PD-6 ONLY)] connector

Used to connect to the [DC IN] connector of the PD-6 using the DC cord supplied with the EX12.

12) [DC IN] connector

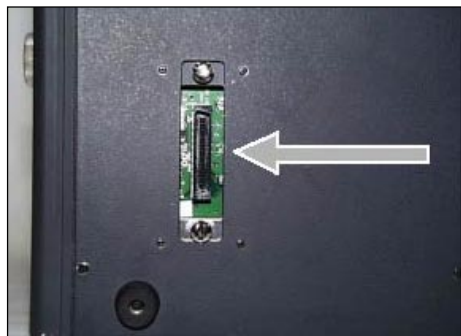
Used to connect to the external DC power supply.

13) [AC IN] connector

Used to connect to the supplied AC cord.

How to stack the PD-6 and EX12 together

- 1) Remove the blank panel at the bottom of the PD-6.

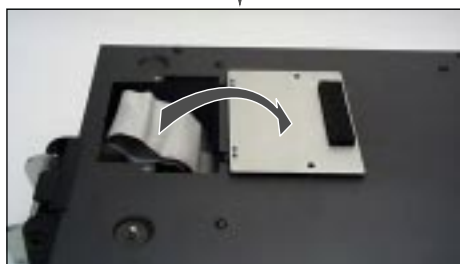
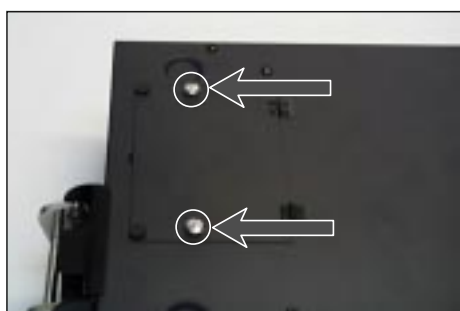


- 2) Replace the two screws for fixing the rubber feet at the bottom of the PD-6 with the screws supplied with the EX12.



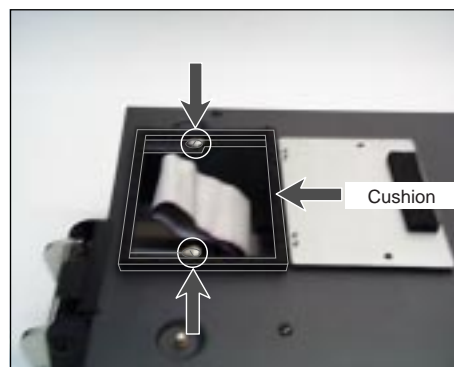
<Note>: Never forget to replace the screws for fixing the rubber feet. Otherwise, the PD-6 may malfunction or generate a noise because of imperfect grounding.

- 3) Remove the two screws for fixing the cover at the top of the PD-6, and open the cover.

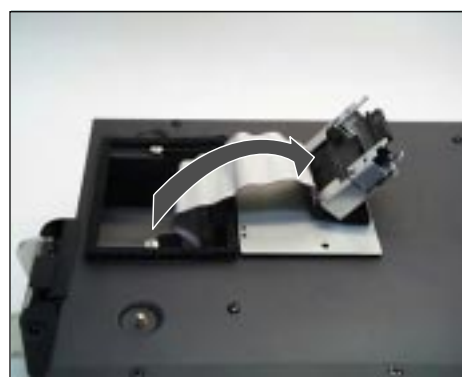


<Note>: The removed screws are used later for fixing the cushion. Be sure not to lose them.

- 4) Fix the supplied cushion using the fixing screws which are removed in the previous step.



- 5) Pull out the connection cable from inside the EX12.



- 6) Put the PD-6 on the EX12 and plug the connector of the cable to the PD-6, as shown below. Make sure to plug the connector in the correct direction.



7) After connecting the cable, stack the PD-6 on the EX12.



<Note>: When stacking the PD-6 on the EX12, make sure to perfectly fit the dent of PD-6 rubber feet to the metallic projections of each EX12. Otherwise, the PD-6 may malfunction or generate a noise because of imperfect grounding.



8) Use the fastenings on both the left and right sides of the EX12 to fastening the PD-6. Pull up the metallic projection of each fastening and hang it on the PD-6. (The following pictures show the example of the left side.)



After hanging the projection on the PD-6, lift up the fixing angle until it is locked.



9) Fasten the fixing screw of each fastening.

Fasten the fixing screw of each fastening so that the fastening may not be off. Be careful not to apply excessive force.



Confirm both the left and right fastenings are fixed tightly.



Now you complete stacking the EX12 and PD-6 together. The next step is to connect the power cords. See the next page.

Connecting the power cords

To supply power to the PD-6 and EX12, connect the AC and DC cords supplied with the EX12, as shown below.



<Notes>

- When the EX12 is connected to the PD-6, turn on the EX12 first, followed by the PD-6.
- When the EX12 is connected to the PD-6, make sure that both the PD-6 and EX12 are turned off before you switch the selector (for selecting [PD-6 IEEE1394] or [USB]) on the EX12 front panel.

PC connection

By connecting the EX12 to your PC regardless of whether the EX12 is connected to the PD-6 or not, you can export the EX12 audio file data to your PC. Read the following notes carefully before making connection. See also the next page for the connection examples.

<Notes for using the EX12 with your PC>

To use the EX12 with your PC, install the dedicated driver (on the supplied CD-ROM) or commercially available DVD-RAM writing software to your PC. Also note that even if the dedicated driver (or commercially available DVD-RAM writing software) is correctly installed, the Read/Write functions are limited depending on OS, as below.

When using the [USB] port:

Windows XP, 2000 --> Both "Read" and "Write" are possible.
 Macintosh OSX, OS9.2.1, OS9.2.2 --> Only "Read" is possible

When using the [IEEE1394] port:

Windows XP, 2000, ME, 98SE --> Both "Read" and "Write" are possible.
 Macintosh OSX, OS9.2.1, OS9.2.2 --> Only "Read" is possible.

Connecting the EX12 alone to your PC

By connecting the EX12 to your PC, you can export an audio file on a DVD-RAM disk set to the EX12. **Note that you cannot export an audio file on the EX12 internal HDD.**



<Notes for using>

- Set the selector on the EX12 front panel to "IEEE1394/USB".
- Connect the EX12 to your PC via the IEEE1394 or USB port. Never use both ports together.

Daisy-chaining the PD-6, EX12 and PC

By making "daisy chain" of the PD-6, EX12 and PC as shown below, you can export an audio file on a DVD-RAM disk set to the PD-6 or EX12.

If your PC has more than one IEEE1394 port, you also can connect the PD-6 and EX12 individually to the IEEE1394 ports on the PC.



<Notes for using>

- When the EX12 is connected to the PD-6, make sure that both the PD-6 and EX12 are turned off before you switch the selector (for selecting [PD-6 IEEE1394] or [USB]) on the EX12 front panel.
- Set the "IEEE1394" menu item in the Utility mode of the PD-6 to "CONNECT".

Main specifications

Internal drives:

12-cm DVD-RAM drive and 2.5-inch HDD (40 GB)

Inputs/Outputs:

DC12V IN

Connector: XLR-4-32 type (male)

Pin assignment:

1: GND, 2: NC, 3: NC, 4: +12~18 V

DC12V OUT (PD-6 ONLY)

Connector: XLR-4-31 type (female)

Pin assignment:

1: GND, 2: NC, 3: NC, 4: +12~18 V

IEEE1394 port (for PC connection)

Connector: 1: FireWire 400 (4-pin)

2: FireWire 400 (6-pin)

Pin assignment (FireWire 400, 4-pin):

1: TPB-, 2: TPB+, 3: TPA-, 4: TPA+

Pin assignment (FireWire 400, 6-pin):

1: VP, 2: VG, 3: TPB-,
4: TPB+, 5: TPA-, 6: TPA+

USB port (for PC connection)

Connector: USB Series "B" receptacle

Pin assignment:

1: VBUS, 2: D- (DATA), 3: D+ (DATA),
4: GND

External dimensions:

386 (W) x 94 (H) x 231 (D) mm

Power requirement/power consumption:

100~240 VAC, 38W

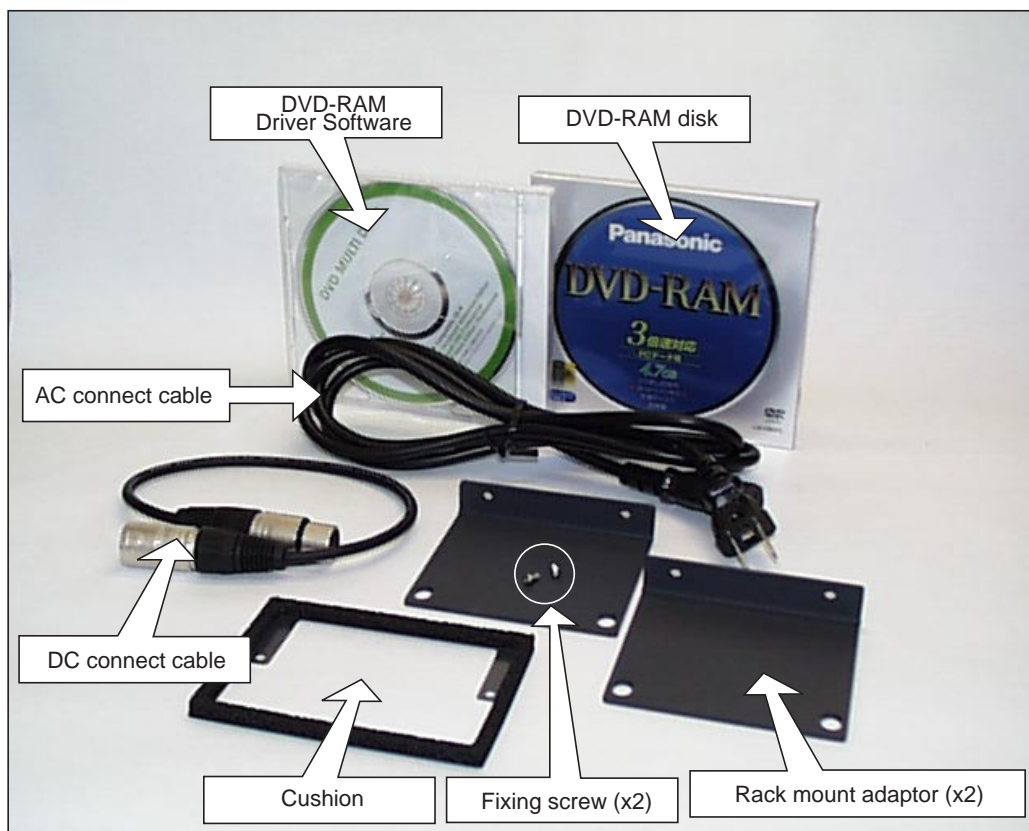
12VDC 3A

Weight

Approx. 4.3 kg

Supplied accessories

- * A pair of rack mount adaptors x2
- * AC cord x1
- * DC cord (for connection to the PD-6) x1
- * Cushion x 1
- * Fixing screws x2
- * DVD-RAM disk x1
- * DVD-RAM Driver Software (for windows) x1



Declaration of EC Directive

This equipment is compatible with the EMC Directive (89/336/EEC) - Directive on approximation of member nation's ordinance concerning the electromagnetic compatibility and with the Low Voltage Directive (73/23/EEC) - Directive on approximation of member nation's ordinance concerning electric equipment designed to be used within the specified voltage range.

The Affect of Immunity on This Equipment

The affect of the European Specification EN61000-6-1 (coexistence of electromagnetic waves - common immunity specification) on this equipment are as shown below.

In the electrical fast transient/burst requirements, surge, conducted disturbances by radio-frequency fields, power frequency magnetic field, radiate electromagnetic field requirements and static electricity discharging environment, this could be affected by generation of noise in some cases.

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* Including non-EU countries (as of October, 2003)

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