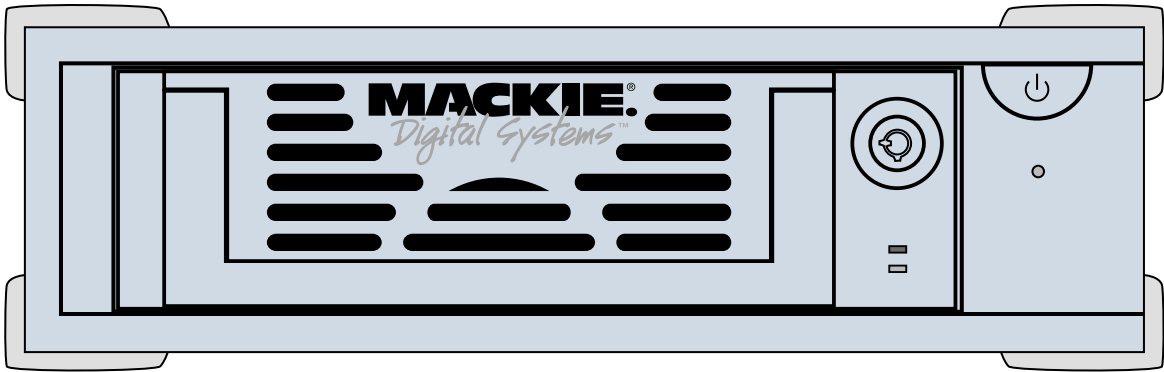


**HDR Pro™**  
**User's Guide**



**HDR24/96 Software Upgrade and FireWire® Drive Bay**

**MACKIE®**



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.

*Le symbole clair avec point de flèche l'intérieur d'un triangle équilatéral est utilisé pour avertir l'utilisateur de la présence d'un voltage dangereux non isolé d'ampleur suffisante pour constituer un risque d'électrocution.*



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

*Le point d'exclamation l'intérieur d'un triangle équilatéral est employé pour avertir les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.*

## Important Safety Instructions

1. Read instructions — Read, understand and follow all safety and operating instructions before using this Mackie product.
2. Retain Instructions — Keep these safety and operating instructions for future reference.
3. Heed Warnings — Follow all warnings on this Mackie product and in these operating instructions.
4. Water and Moisture — Do not use this Mackie product near water — for example, near a bathtub, kitchen sink, garden hose, incontinent poodle, sweaty drummer, etc. — or when condensation has formed on the unit.
5. Cleaning — Clean only with a dry cloth.
6. Heat and Ventilation — Locate this Mackie product away from heat sources such as radiators, campfires, compost pits, heliarc welders, magma flows, etc. Do not block the ventilation openings or install in spaces that prevent adequate air circulation to the unit.
7. Power Sources — Connect this Mackie product only to a power source of the type described in these operating instructions or as marked on the product.
8. Power Cord Protection — Route power supply cords so that they are not likely to be walked upon, tripped over, or abraded by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit the product.
9. Object and Liquid Entry — Do not drop objects or spill liquids into this Mackie product. Clean only with a damp cloth; do not clean with liquid or aerosol cleaners.
10. Attachments — Use this Mackie product with only the accessories specified in this manual.
11. Damage Requiring Service — This Mackie product should be serviced only by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen onto, or liquid has spilled into the unit; or
  - C. The unit has been exposed to rain or water; or

D. The unit does not appear to operate normally or exhibits a marked change in performance; or

E. The unit has been dropped, or its chassis damaged.

12. Servicing — Do not attempt to service this Mackie product. All servicing should be referred to the Mackie Service Department.
13. Lightning — Unplug the product during lightning storms or when unused for long periods of time. Note that this Mackie product is not completely disconnected from the AC mains service when the power switch is in the OFF position.
14. Grounding and Polarization — To prevent electric shock, do not use the polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure. Do not defeat the grounding by plugging into an ungrounded receptacle or ground lift adapter.

This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministères des communications du Canada.

### FCC Information

**NOTE:** This equipment has been tested and found to comply with the limits for Class B digital devices, 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 installation. 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.

**WARNING —** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

## Introduction

Thank you for choosing Mackie Designs for your hard disk recording solution. HDR Pro™ is a major step in our continued support of the HDR24/96 Hard Disk Recorder/Editor. HDR Pro is not a required upgrade, but adds a new dynamic to the already rich feature set of the HDR24/96.

HDR Pro includes the HDR Pro software for your HDR24/96, and the FireWire® drive bay.

HDR Pro software allows you to save your HDR Project file as a Mac-based Pro Tools® Session file (versions 3.x, 4.x, or 5.x), and allows Pro Tools Session files to be imported directly into an HDR Project. You can save the files directly to the internal drive for FTP transfer, or to a removable drive in the HDR's drive bay (Mackie Media M90). The removable drive can then be transferred to the HDR Pro FireWire drive bay, and accessed from the Macintosh desktop through the FireWire connection. Copy the newly created Pro Tools Session to your Pro Tools drive and you're ready to wield your Pro Tools magic on your HDR24/96 recorded digital audio tracks.

The first step in using HDR Pro is installing the software in the HDR24/96.

## Installing the Software

- 1) With the HDR24/96 powered off, insert installation Disk 1 into the HDR24/96 floppy drive, and power the HDR24/96 up.
- 2) The HDR24/96 will boot into the installer program automatically. Follow the prompts on the LCD screen.
- 3) Insert Disk 2 into the floppy drive when prompted, and select "Continue."
- 4) When the HDR24/96 has completed reading both installer disks, it will ask you if you want to install HDR Pro 1.4. Click "OK" to finish the installation, or "Cancel" to cancel without writing any files to disk.
- 5) When the installation is complete, remove Disk 2 from the floppy drive, turn the HDR24/96 off, and then turn it back on again to begin using the new software.

Please write your serial number here for future reference:

Purchased at:

Date Of Purchase:

## Licensing

It is necessary to authorize the software in order to use the "Import/Export Pro Tools" feature.

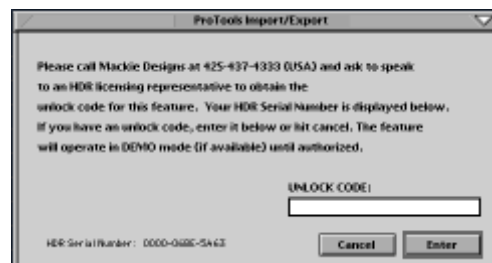
*To authorize the software:*

- Click the **Licensing** icon in the Setup window.



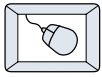
*Unlock procedure*

1. Locate the HDR's Electronic Serial Number (ESN). This is displayed at the bottom of the Licensing window. The 12 digit ESN is made from numbers 0-9 and letters A-F.
2. Locate the HDR software upgrade serial number, which is printed on the floppy disk label.
3. To obtain the unlock code, have the ESN and software upgrade serial number ready. Then you have two options:
  - Log on to the Mackie authorization web page at: <http://www.mackie.com/HDRauthorize>, or
  - Phone Mackie Tech Support at: 800-258-6883 (425-487-4333 outside the U.S.)
4. When you have obtained an unlock code, click **Authorize** in the Licensing window and enter your unlock code in the **UNLOCK CODE** box. Click **Enter**, *reboot the HDR*, and enjoy your newly expanded software.

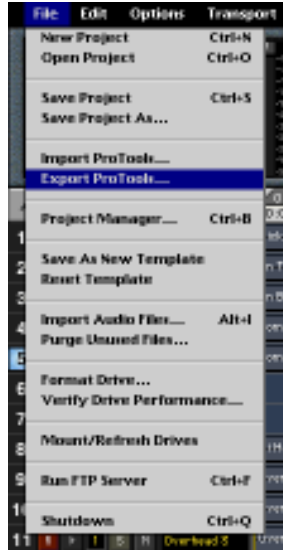


## Exporting HDR Projects in Pro Tools Session Format

To export an HDR Project as a Pro Tools Session from the GUI:



1. Select **Export ProTools...** from the File menu.



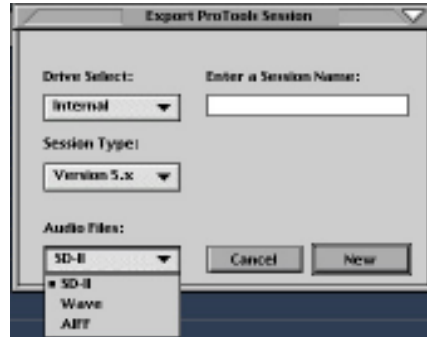
2. In the Export ProTools Session dialog box, you can enter a name for the Session. Click the box under **Drive Select** to choose which drive the Pro Tools Session files are to be exported to, internal or external.



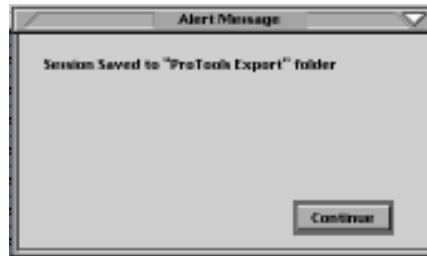
3. Click the box under **Session Type** to select the Pro Tools version you are using (3.x, 4.x, or 5.x).



4. Click the box under **Audio Files** to select the file format for the audio files. Pro Tools v3.x and 4.x use SD-II only, while Pro Tools v5.x can use SD-II, Wave, and AIFF files.



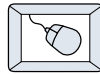
5. Click **New** to save the new Pro Tools Session. The more audio files there are in the Project, the longer it takes to export.
6. When the export process is complete, an alert message informs you that the Session files are saved to the "Pro Tools Export" folder.



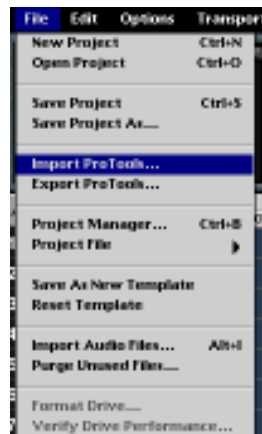
7. Click **Continue** to finish.

## Importing Pro Tools Session Files

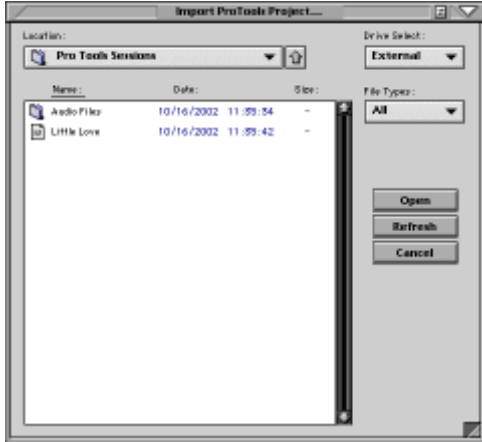
To import a Pro Tools Session from the GUI:



1. Select **Import ProTools...** from the File menu.



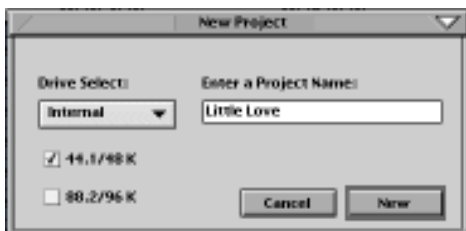
- In the Import ProTools Project dialog box, select the Pro Tools Session file you want to import as an HDR Project file. You can navigate to the drive and folder where the file is located in the Location and Drive Select boxes at the top of the window.



- Click **Open** to save the new Pro Tools Session. The Confirm Import dialog box opens.



- Click **OK** to save the Pro Tools Session as an HDR Project file, or click **Cancel** to exit.
- The New Project dialog box opens. Enter a name for the Project, select whether to save it on the external or internal drive, and select whether it should be 44.1/48 kHz or 88.2/96 kHz.

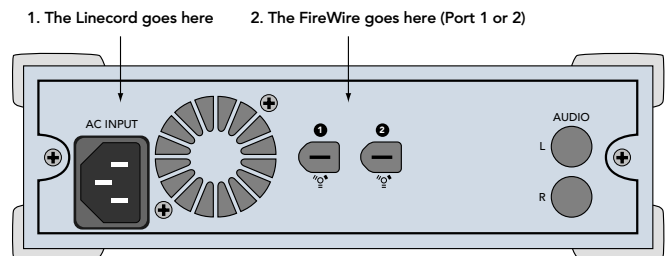


- Click **New** to finish.

## Connecting the HDR Pro FireWire Drive to a Macintosh

- Plug the linecord into the IEC socket on the back of the FireWire drive. Plug the other end into an AC socket properly configured for your particular model.
- Connect the supplied FireWire patch cable between one of the FireWire ports on the back of the FireWire drive and the FireWire port on the Macintosh. It doesn't matter which port you use.
- That's all there is to it!

**Note:** Macintosh computers require Mac OS 9.1 or higher. PC computers require Windows 2000 or Windows XP.



## Macintosh Setup

*On a Macintosh, you should do the following:*

- Go to the Apple drop down menu and select Control Panels – File Exchange.
- Select the PC Exchange tab and add the following entries:
 

Ext:	Application	File Type
pt3	Pro Tools x.x	PSes
pt4	Pro Tools x.x	PT4S
pt5	Pro Tools x.x	PT5S
sd2	Pro Tools x.x or QuickTime Player	SD2F

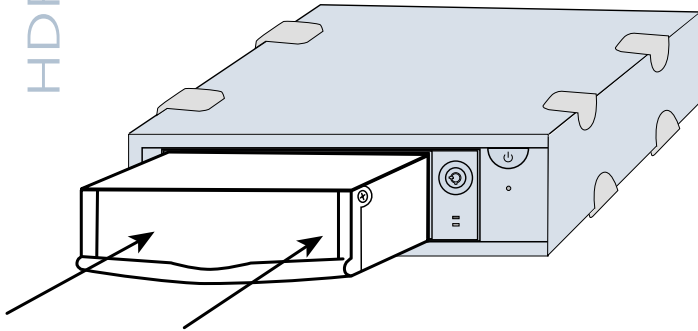
where x.x is the version of Pro Tools installed on your system (e.g., 5.1)

## Installing or Removing a Mackie Media Tray

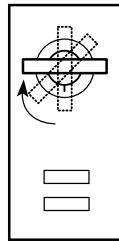
*To install or remove a Mackie Media tray:*

- Make sure the power is off on the FireWire Drive.
- To install a new M•90 drive, first remove the blank plate by inserting the key and turning it a quarter-turn counterclockwise. Pull out from the edge of the plate closest to the key to remove it. Slide the media tray

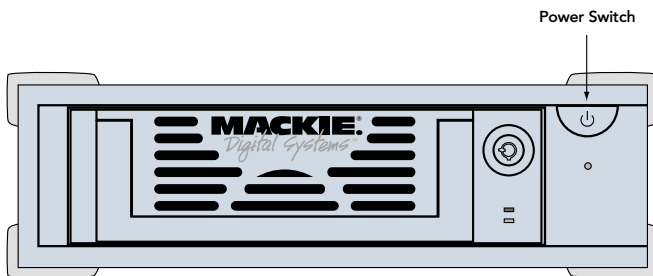
into the front panel drive bay. Press it firmly into place, and latch it by pressing the bail handle downward until it's fully seated.



3. Insert the key into the lock and turn it a quarter-turn clockwise. The key locks the drive into place and powers the tray.



4. Push in the Power switch on the FireWire drive to turn it on. The M90 drive will appear on the Macintosh desktop.



5. To remove a drive, first drag the M90 drive icon to the trash and turn the power off on the FireWire drive. Unlock the drive by inserting the key and turning it a quarter-turn counterclockwise. Two keys are packed with the FireWire drive, and one with each M•90 drive.
6. Lift the handle to release the drive, and pull it out of the drive bay.

**Note:** Mackie Media are hard drives, and as we all know, hard drives involve some pretty intricate technology. So don't shake the little darling, and if a tray has just come in from a freezing car or airplane cargo hold, do not install it until it has reached room temperature.

## Service

Service for the FireWire drive bay bought and residing in the United States is available only at Mackie Designs. HDR Pro owners outside the U.S. should consult their local Mackie dealer or distributor for service.

1. Please verify that the problem does indeed lie with the FireWire drive bay, and not the result of a connection or computer problem. Assuming you've done so...
2. Have your FireWire drive bay serial number ready — hopefully you copied it down in the front of this manual (page 3).
3. Call Mackie Tech Support at 800-258-6883 (8 AM to 5 PM, Pacific Time) to explain the problem. If it can't be solved over the phone, you will be issued an RA (Return Authorization) number. You must have an RA number before you can obtain service from the factory.
4. Pack the FireWire drive bay in the original box, with the original foam innards or other packing materials. You DID save that stuff, didn't you? If you didn't, you'll need to purchase a new box and packing materials from Mackie. Mackie is not responsible for any damage resulting from shipments of product in "non-original" packaging.
5. Include a legible note stating your name, return shipping address (no P.O. boxes of course), daytime phone number, the RA number, and a detailed description of the problem, including how we can duplicate it.
6. Write the RA number in **HUGE** letters on top of the box.
7. Ship the FireWire drive bay to Mackie. We recommend you get insurance on the package. Send it to this address:

Mackie Designs Inc.  
Service Department  
16140 Wood-Red Rd. NE, Ste. 5  
Woodinville, WA 98072

8. We'll try to fix the FireWire drive bay within five business days. Ask Tech Support for current turnaround times when you call for your RA number. We normally send everything back prepaid using three-day shipping. However, if you rush your FireWire drive bay to us via next-day air, we'll do the same for the return trip. This does not necessarily apply to non-warranty service.

## Specifications

### Power Requirements

Power Supply:	U.S. version: 120 Vac, 50-60 Hz International version: 240 Vac, 50-60 Hz
---------------	-----------------------------------------------------------------------------

### Physical

2 Firewire Ports:	IEEE1394
Height:	2.5 in (64 mm)
Width:	7.75 in (197 mm)
Depth:	9.75 in (248 mm)
Weight (no drive):	3.4 lbs (1.5 kg)

Please read the included warranty information, then complete and return the Warranty Registration card. You can also register online at [www.mackie.com](http://www.mackie.com).

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## HDR Pro Supported Features

Features	Pro Tools 3.x	Pro Tools 4.x	Pro Tools 5.x
<b>Audio File Types</b>	.SD2	.SD2	.SD2, .AIF, Broadcast.WAV
<b>Supported Bit Depth</b>	16 bit	16 bit	16 bit and 24 bit
<b>Region Definitions</b>	Yes	Yes	Yes
<b>Track Names</b>	PT tracks named "Audio Track 001—Audio Track 024"		
<b>Region Names</b>	Based on HDR Pro region names and edit order		
<b>Region List</b>	Yes	Yes	Yes
<b>Fade Ins</b>	No	No	No
<b>Fade Outs</b>	No	No	No
<b>Crossfades</b>	No, the first region is extended to cover the fade region		
<b>Looped Regions</b>	Yes, exported as separate regions		
<b>Locked Regions</b>	Yes	Yes	Yes
<b>Sample Rate</b>	Yes	Yes	Yes
<b>Bit Depth</b>	Yes, but bit depth for 3.x or 4.x PT sessions is limited to 16 bit only — HDR project should be set to 16 bit when recording	Yes	Yes, but since PT 5.x supports 16 bit and 24 bit sessions, the HDR audio files used in a Project and the global HDR Bit Depth setting must match when exporting
<b>Virtual Tracks</b>	Active track is exported — virtual tracks to the Pro Tools region bin		
<b>Original Time Stamp</b>	Yes	Yes	Yes

Features	Pro Tools 3.x	Pro Tools 4.x	Pro Tools 5.0	Pro Tools 5.1
<b>Audio File Types</b>	.SD2	.SD2	.SD2	.SD2, .AIF, Broadcast.WAV
<b>Supported Bit Depth</b>	16 bit	16 bit and 24 bit	16 bit and 24 bit	16 bit and 24 bit
<b>Region Definitions</b>	Yes	Yes	Yes	Yes
<b>Track Names</b>	Yes	Yes	Yes	No
<b>Region Names</b>	Yes	Yes	Yes	Yes
<b>Region List</b>	Yes	Yes	Yes	Yes
<b>Fade Ins</b>	Yes, as regions	Yes, as regions	Yes, as regions	Yes, as regions
<b>Fade Outs</b>	Yes, as regions	Yes, as regions	Yes, as regions	Yes, as regions
<b>Crossfades</b>	Yes, as regions	Yes, as regions	Yes, as regions	Yes, as regions
<b>Locked Regions</b>	Yes	Yes	Yes	Yes
<b>Sample Rate</b>	No, HDR does not change to sample rate and bit depth of PT session			
<b>Bit Depth</b>	No, HDR does not change to sample rate and bit depth of PT session			
<b>Playlists</b>	Active playlist is used — track name also reflects this other playlist audio are in region bin		First playlist is used on track containing multiple playlists	
<b>Track Numbers &gt; 24</b>	Tracks discarded but audio is imported into region list			
<b>Muted Regions</b>	Yes, as normal (unmuted) regions			
<b>Inactive Track</b>	No	No	No	Yes, as normal tracks and regions
<b>Hidden Tracks</b>	Yes, as normal tracks and regions			

#### THE FOLLOWING FEATURES ARE NOT INCLUDED IN THE IMPORT/EXPORT FUNCTION OF HDR PRO v1.4:

- Volume Envelopes
- Cue Points and Names
- Record Enabled Tracks
- Tempo and MIDI Maps
- I/O Settings
- Muted/Soloed Tracks
- History List
- Templates

#### THE FOLLOWING PRO TOOLS FEATURES ARE NOT APPLICABLE FOR THE HDR:

- MIDI Tracks
- Stereo or Multi-channel (Surround) Tracks
- Master/Group Tracks
- Send/Plug-ins/Inserts
- All Pro Tools Mixer Settings

**MACKIE®**

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E-mail: [sales@mackie.com](mailto:sales@mackie.com)