

APA32

Audio Processing Accelerator

U s e r ' s M a n u a l



Read First!



Warning – Safety First!

Please read and follow the instructions of the Registration Form entitling you to technical support and service-under-warranty.

Important safety considerations

1. Read all operating instructions.
2. In case of damage to the APA32 due to spilled liquids or physical damage from knocks or dropping, repairs should be performed by qualified service personnel only.
3. Securely mount the APA32 unit in a 19" studio rack away from rain, moisture, liquids, heat sources or fire using the supplied four mounting bolts, or alternatively, attach the supplied rubber feet for desktop use.
4. The APA32 has ventilation fans on its side panels. Please be sure not to block them and to allow at least 2cm of space for airflow.
5. Avoid placing the APA32 where there may be radio or TV interference.
6. Do not allow children to use the APA32 without adult supervision.

A note to all users:

Please provide an earthing (grounding) connection before the APA32 mains power cable is connected to the mains.

Package Content

Your new APA32 package contains:

1. APA32 Unit
2. 2 Power cables (1 US, 1 Eur)
3. 1 Crossed Ethernet cable (10m)
4. Rack-mount ears & bolts
5. 4 rubber feet
6. CD wallet
7. Registration card
8. This user guide

Mounting the APA32 unit

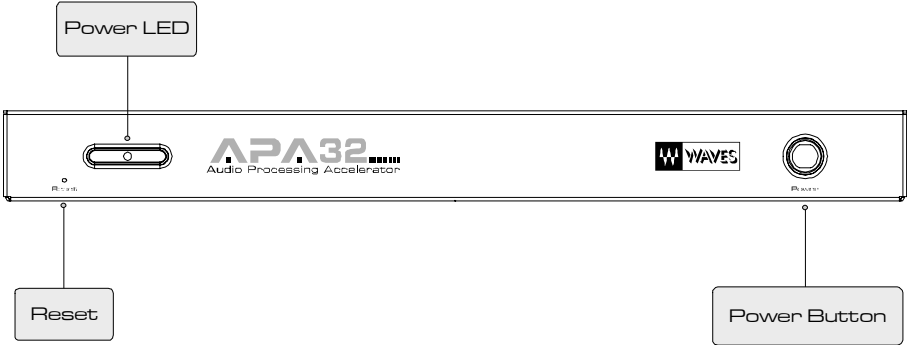
Before connecting the APA32, be sure to securely mount it in a standard 19" studio rack-mount away from heat and moisture. Alternatively, for desktop use, attach the four rubber feet to the bottom of the APA32.

1. Introduction

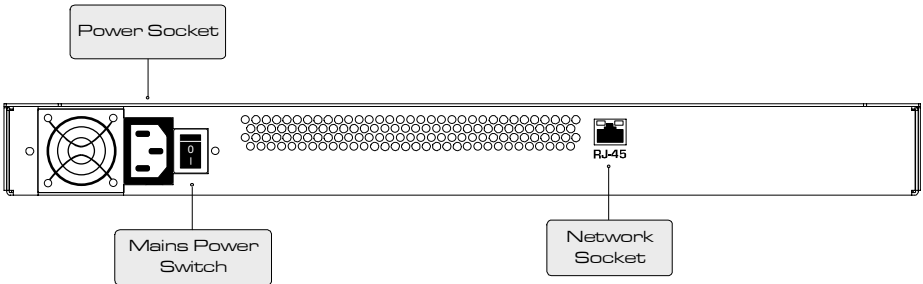
Welcome to the APA32 manual. Be sure to read the safety considerations on page 1 of this manual before you plug-in and switch on the APA32's power.

The Waves **A**udio **P**rocessing **A**ccelerator is a hardware platform designed to provide independent processing resources for Waves plug-ins running on a host computer. This manual focuses on the APA32 hardware connection and operation aspects. All software aspects are covered in the software manuals supplied via the Waves software installers or through download from the Waves website.

Front Panel View



Rear Panel View



2. Connecting The APA32 unit

2.1. Mains Power Supply

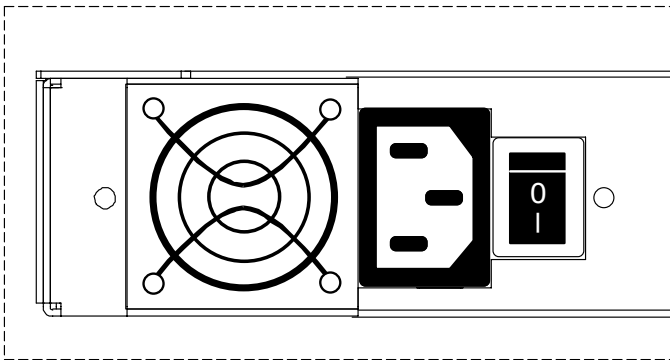
The power cable socket and mains power On/Off switch are located on the rear panel of the APA32 unit.

The power supply is auto-switching and supports 100-240V, 50-60Hz.

Make sure the mains power switch is set to Off (O) before connecting the APA32 to the mains.

Then plug the supplied power cable into the APA32 power socket and to your electricity connection. Switch the mains power switch on (I).

If you need to disconnect the power cable, please be sure to switch the mains power switch off first.



2.2. Network Connection

The network cable connection is located at the back of the APA32 unit.

There are two possible ways to connect the APA32 unit to your host computer:

1. Direct connection to the host computer's Ethernet socket using the supplied crossed Ethernet cable.
2. If you intend to connect more than one APA32 unit to your host computer, you will need to connect the APA32 units to an Ethernet switch* (**not** a hub) and connect the switch to your host computer using standard (non-crossed) Ethernet cables.

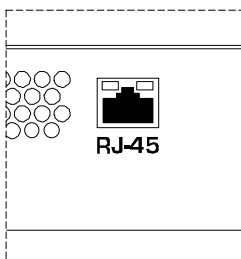
If you connect more than one APA32 unit to your host computer, the Ethernet card in your host computer needs to be **1Gbit** bandwidth based in order to support the required network communication bandwidth.

Important Note:

It is possible to connect the APA32 unit(s) to an existing Ethernet switch used to connect your host computer to other network applications.

However, due to bandwidth and other network considerations it is **highly recommended** to separate networks and to connect your APA32 unit(s) to a dedicated Ethernet card.

Following this recommendation will ensure fulfilling the maximum power and potential of your APA32 unit(s).



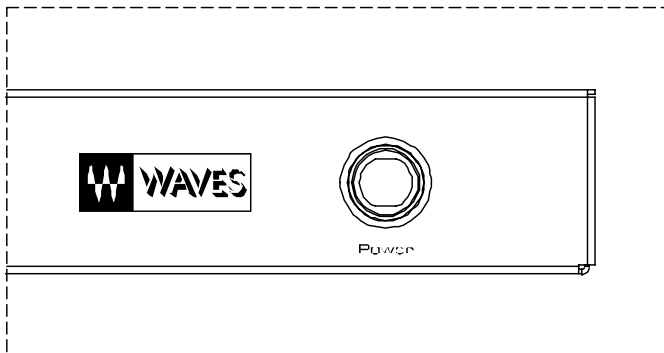
*For switch requirements and specifications please check the Waves website.

3. Operation

Once the APA32 unit is connected to power and to the network, simply press the power button on the front panel to switch the unit on. The power LED will illuminate to indicate that the unit is operating. The APA32 is now ready to communicate with your host computer.

To switch the APA32 unit off, press and hold the power button on the front panel for approximately 4 seconds. The power LED should switch off to indicate that the unit is off.

Before switching the APA32 off, make sure that the Waves software is not running on it (as explained in the software manual).



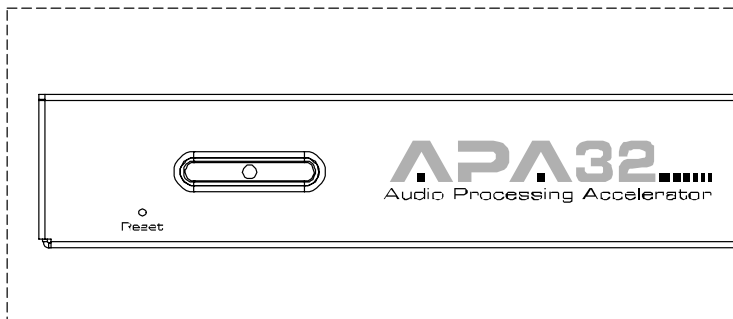
4. Troubleshooting

Please verify the following points before trying to use the Waves software on the APA32 unit:

1. The power cable is properly connected.
2. The mains power switch (at the back) is switched on.
3. Network connections:
 - a. A **crossed** network cable is connected between the APA32 and the host computer – in the case of connecting a single APA32 directly to the host computer.
 - b. A **standard** network cable is connected between the APA32 and an Ethernet switch. The switch is connected with a **standard** network cable to the host computer – in the case of connecting several APA32 units to the host computer.
4. The APA32 is switched on (by pressing the power button at the front) and the power LED is illuminating.

In case it is necessary to restart the APA32 unit, this can be done in two ways:

1. Press and hold the power button for a few seconds to switch the unit off, and then press it again to switch the unit on.
2. Insert a small pin into the Reset socket on the unit's front panel and press the reset button to restart the unit.



Contact Waves Sales and technical support

Before calling Waves for technical support, please first check the Waves website (<http://www.waves.com>) for technical support issues and the latest information.

Contacting the tech-support or the sales department via our website is preferred, and is more efficient in terms of being able to provide you with complete documentation and solutions.

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<http://www.waves.com>

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5. Technical Specifications

Dimensions:

Width: 444mm / 17.5 inch

Height: 44.5mm / 1.75 inch

Depth: 300mm / 11.8 inch

1U 19" Standard Rack-mount

Weight: 5kg / 11 pounds

Power:

Input Voltage: 100~127 VAC, 200~240 VAC, Auto Sensing

Frequency: 50~60 Hz

Input Current: 5.0 Arms @ 115 VAC, 2.5 Arms @ 230 VAC

Environmental:

Operating Temperature: 10~40°C

6. Warranty

One Year limited Warranty on APA32 Hardware (“Product”):

Waves Audio Ltd. ("Waves") warrants that the Product conforms substantially to the specifications contained in the Product documentation for a period of one (1) year from the date of original purchase from Waves or its authorized resellers. In the case of a valid warranty claim, your sole and exclusive remedy and Waves's entire liability under any theory of liability will be, at its option, to repair or replace the Product without charge or, if this is not possible, to refund the purchase price to you. For warranty service, please call one of Waves offices listed above, to obtain a Return Authorization (RA) number. After you obtain the RA number, ship the defective Product, transportation and insurance charges prepaid, to the Waves location listed above. Write the RA number in large letters on the outside of the shipping box. Enclose your name, address, telephone number, copy of original sales invoice and a detailed description of the problem. Waves will not accept responsibility for loss or damage in transit.

The Warranty is void if the Product serial numbers have been removed from the Product or if the Product has been damaged by misuse, modification or unauthorized repair, as determined at Waves' discretion.

The Product is designed and manufactured for use in professional and studio audio systems and is not intended for other usage.

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