

# StudioPro 3

Professional Desktop Audio Monitors

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## User's Guide

**M-AUDIO**



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.



AFIN D'EVITER UN CHOC ELECTRIQUE ET LES CONSEQUENCES GRAVES QUI POURRAIENT EN RESULTER, TENEZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE.



PARA REDUCIR EL RIESGO DE SACUDIDAS ELECTRICAS, NO DEBERA QUITARSE LA TAPA (NI PARTE POSTERIOR). CONSULTESE AL PERSONAL CAPACITADO PARA LAS REPARACIONES INTERNAS.

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**ADVERTENCIA:** PARA EVITAR EL RIESGO DE INCENDIO O SACUDIDA ELECTRICA, NO DEBERA EXPONERSE ESTE APARATO A LA LLUVIA O HUMEDAD.

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARISED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

**PRECAUCION:** PARA EVITAR SACUDIDAS ELECTRICAS, NO DEBERA UTILIZARSE ESTA CLAVIJA POLARIZADA CON UN CORDON DE PROLONGACION, RECEPTACULO U OTRO TIPO DE SALIDA A MENOS QUE SE HAYAN INSERTADO COMPLETAMENTE LAS LENGÜETAS PARA EVITAR SU EXPOSICION.

**NOTE:** Some products are equipped with dual or multi-voltage transformers (which is indicated on the back panel). If you wish to change the voltage, please bring your unit to an authorised service technician for internal conversion.

**ATTENTION:** Quelques pièces sont munies de transformateurs à double ou à multi-voltage (indiqué au panneau arrière). Si vous voulez changer le voltage, veuillez apporter votre appareil au fournisseur de pour le transformer.

**ZUR BEACHTUNG:** Einige Geräte sind mit Umschaltern für unterschiedliche Netzspannungen ausgerüstet (Ein Vermerk auf der Rückseite weist darauf hin).

Die Anpassung, wenn notwendig, muß von einem qualifizierten Techniker in einer Servicestation vorgenommen werden.

**NOTA:** Ciertos componentes de están dotados de transformadores de doble tensión o de varias tensiones (lo que se indica en el panel posterior). Si se desea cambiar la tensión, sírvanse llevar el aparato a un técnico autorizado por para su conversión interna.

**NOTE TO CATV systems installer:** This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**NOTA PARA EL INSTALADOR DE ANTENAS DE TELEVISION COLECTIVAS:** La presente advertencia se provee para llamar la atención del instalador al Artículo 820-22 de NEC (Código Eléctrico Nacional) donde se facilitan las directrices para la pertinente puesta a tierra y que especifica en particular que el conductor a tierra del cable debe conectarse al sistema de conexión a tierra del edificio, lo más proximo posible al punto de entrada del cable.



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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 of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**Warning:** This speaker shall not be placed in the close area during the operation so that the mains switch can be easily accessed by the user.

# IMPORTANT SAFETY INSTRUCTION

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## 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, etc.

## 6. CARTS AND STANDS

The appliance should be used only with a cart or stand that is recommended by the manufacturer.

- 6A. 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

This equipment is not designed for use mounted on a wall or a ceiling.

## 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 bookcase or cabinet that may impede the flow of air through the ventilation openings.

At least 30cm free space around the unit for normal ventilation is required.

## 9. HEAT

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

## 10. CLEANING

The appliance should be cleaned only with dry cloth.

## 11. 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.

## 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. POLARIZED PLUG

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

## 14. UNPLUG POWER CORD

Unplug this apparatus during lightning storms or when unused for long periods of time.

## 15. OBJECT AND LIQUID ENTRY

No object filled with liquids, such as vases, etc. shall be placed on the apparatus.

## 16. ACCESSORIES

Only use attachments/accessories specified by the manufacturer.

## 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. 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 is damaged.

## Introduction

Thank you for choosing the StudioPro 3 professional desktop multimedia audio monitors. Top recording engineers and producers in studios around the world use M-Audio monitors. Now, with the StudioPro 3 monitors, you can enjoy the same professional standard of audio quality right on your desktop.

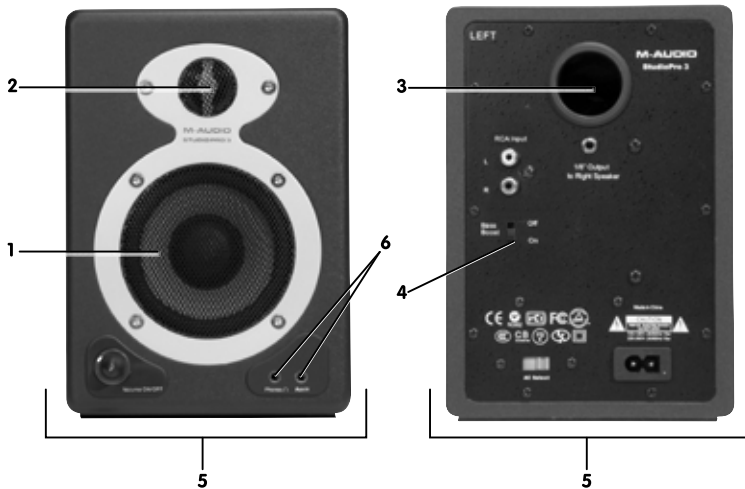
The StudioPro 3 has been designed and tested by veteran audio engineers to meet your needs in a desktop audio monitoring environment. Custom-tuned cabinets, optimized speaker design, and advanced crossover technology deliver the best sound you can get in monitors this size. Complete with magnetic shielding for desktop use, StudioPro 3 delivers great audio experiences from your music and multimedia applications. The StudioPro 3 monitor is self-powered, directly accepting a line-level signal from a variety of sources.

## What's in the Box?

Your StudioPro 3 box contains:

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- Two StudioPro 3 speakers (Left and Right)
  - Left:** built-in amp and power supply; volume control, headphone jack, and auxiliary stereo input on front face; main RCA stereo input and right channel signal output on the back
  - Right:** audio connection from left speaker on back
- One 1/8" stereo mini jack-to-RCA audio cable for use with the main inputs
- Two speaker stands, designed to optimize the "sweet spot" for typical listening positions
- 2-conductor standard (keyed) power cable
- 1/8" stereo to 1/8" stereo audio cable (black color) for use with the "Aux" input
- 1/8" to 1/8" audio cable to send right channel audio to the right speaker (transparent color)
- Acoustic/traction pads for speakers and stands
- Owner's manual

## StudioPro 3 Features



### 1. Woofer

The woofer unit is 3.25" in diameter with a magnetically shielded curved cone to protect your computer video monitor from interference. It includes a high-temperature voice coil and is enclosed with acoustic foam damping. The woofer delivers balanced mid- and low-frequency response.

### 2. Tweeter

By employing a specially developed 1" dome with protective magnetic shielding, the tweeter can deliver an extremely natural response. It minimizes resonance by adapting a unique internal damping technology.

### 3. Bass Reflex Port

The hole in the rear panel is a bass reflex port. It is designed to discharge very low frequency signals and enhance the overall bass response.

### 4. Bass-Boost Control

The back panel Bass-Boost control on the StudioPro 3 gives you additional low-frequency gain and makes the monitors versatile for different spaces and listening preferences.

### 5. Enclosure

Along with the other components, the StudioPro 3's enclosure plays an important role. In order to provide more stable performance, we used a special medium-density fiberboard (MDF) and unique interior reinforcement designed to absorb vibration and impact generated under extreme conditions. Additionally, our innovative speaker monitor cabinet includes carefully placed acoustic material that makes the StudioPro 3 sound much bigger than it is—resulting in a smooth, natural bass response.

### 6. Stereo Auxiliary Input and Headphone Output

For maximum flexibility, we have included a stereo "Aux" input which allows you to plug in a secondary audio source (such as your portable music player) in addition to the main RCA inputs in the back. The volume control works on both inputs simultaneously. Additionally, there is a stereo headphone output next to the "Aux" jack that mutes the sound coming out of the speakers and redirects it to your headphones.

## 7. Network & Power Amplifiers

The active equalization, crossover networks, and power amplifiers for the StudioPro 3 are specially designed for this woofer and tweeter. The network distributes low-, mid-, and high-frequency audio signals to the proper components in order to minimize distortion and to achieve a balanced sound.

## 8. (Optional) Speaker Stands

We have included a pair of desktop/bookshelf speaker monitor stands with your StudioPro 3 system. They help point the StudioPro 3 monitors directly at the listener, optimizing the “sweet spot” for listening. High-frequency audio signals radiating from the tweeters tend to be fairly directional, so by using the stands you can help focus those signals for exceptional audio imaging.



## Installation

For optimal performance of the StudioPro 3, please read the following directions carefully before installation.

### Precautions

**Connections:** Connect the RCA outputs of your StudioPro 3 to the corresponding computer sound card, portable music player, or other audio device. We recommend that you use the supplied cables (or cables of equal or higher quality) for all connections. Be sure that the StudioPro 3 monitors are powered off before making any connections.

If you need to connect the StudioPro 3 speakers to a device with 1/4" outputs, like the M-Audio MobilePre USB, you can purchase an adapter cable that will have the 1/4" connection on one end and the RCA connection on the other end.

**Correct Power Operation:** Since the StudioPro 3 contains amplifiers, it must be connected to a power outlet using the detachable AC cable that is provided. Before connecting power, please make sure that the On/Off/Volume switch of the StudioPro 3 is rotated all the way counterclockwise to the off position.

**WARNING!** - *Use of improper Voltage may result in hazardous conditions and/or damage to speaker components not covered by speaker warranty.*

### Acoustic/Traction Pads

In order to minimize vibrations and maximize physical stability, we recommend you use the provided acoustic/traction pads on the bottoms of the StudioPro 3 monitors and on the bottoms of the speaker stands (if you choose to use the stands).

## Speaker Wire Connections

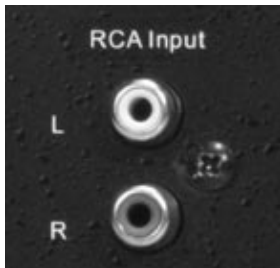
Use the transparent 1/8" mini cable included in the StudioPro 3 package to connect the Left and Right speakers via the 1/8" mini jacks on the back of each speaker.



## Connecting to a Computer Sound Card or Other Audio Output Device

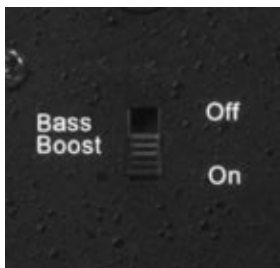
Before connecting the StudioPro 3 monitors, make sure the power from the computer or other output device has been turned off and the StudioPro 3 system is also turned off.

Plug the RCA cable to the corresponding output connectors of a computer sound card, portable music player, etc. You can also use the black 1/8" stereo mini cable to connect a secondary audio device to the "Aux" input on the front of the StudioPro 3.



## Setting the "Bass Boost" EQ Switch

This 2-position switch provides a subtle increase in bass response. The On mode increases the low-frequency gain slightly via the woofer and bass-reflex port. The Off mode produces a natural, even response for most listening conditions.

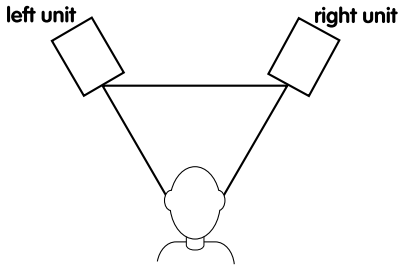


*Please see Appendix C for the "Bass Boost" frequency response curve.*

## Placing the StudioPro 3

The way you position your speaker monitors can greatly affect the way they sound. Please refer to the following description for correct StudioPro 3 placement.

1. The two speaker monitors and the listener should align to form an equilateral triangle.



2. Ideally, the tops of the woofers should be level with the listener's ears. Given the compact size of the StudioPro 3 monitors and typical desk heights, achieving this alignment may be difficult. Fortunately, we have provided speaker stands that can help point the StudioPro 3's directly at the listener.

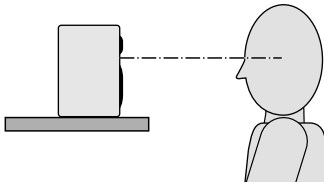


Figure 1: StudioPro 3 monitor **at** ear-level (no stand).

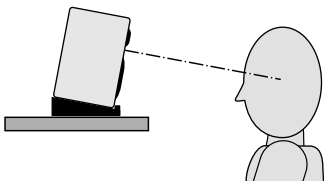


Figure 2: StudioPro 3 monitor **above** ear-level (with stand directing sound).

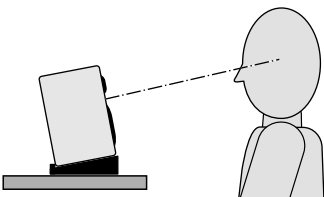


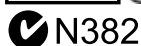
Figure 3: StudioPro 3 monitor **below** ear-level (with stand directing sound).



## Technical Support & Contact Information

For additional help, contact M-Audio Technical Support by telephone, fax or e-mail. If you have any questions, comments or suggestions about this or any other M-Audio products, we invite you to contact us at:

<b>M-AUDIO U.S. -</b> 5795 Martin Road, Irwindale, CA 91706-6211, U.S.A.  Sales Information: ..... 626-633-9050 Sales (fax): ..... 626-633-9070 Sales Information (email): ..... info@m-audio.com Tech Support (email): ..... techsupt@m-audio.com Tech Support (fax): ..... 626-633-9060 Internet Home Page: ..... http://www.m-audio.com	<b>M-AUDIO Deutschland (Germany) -</b> Kuhallmand 34, D-74613 Ohringen, Germany  Sales Information: ..... +49 (0)7941 987000 Sales Information (email): ..... info@m-audio.de Technical Support: ..... +49 (0)7941 9870030 Technical Support (email): ..... support@m-audio.de Technical Support (fax): ..... +49 (0)7941 98 70070 Internet Home Page: ..... http://www.m-audio.de
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<b>M-AUDIO France -</b> Floor 6, Gresham House, 53 Clarendon Road, Watford, WD17 1LA, United Kingdom  <b>Assistance Technique (aucune questions reliées aux ventes)</b> courriel (assistance PC): ..... support@m-audio-france.com courriel (assistance Mac): ..... mac@m-audio-france.com téléphone (assistance PC): ..... 0820 000 731 (0,12 Euros par minute) téléphone (assistance Mac): ..... 0820 391 191 (0,12 Euros par minute) télécopieur/fax: ..... 01 72 72 90 52  <b>Ventes (aucun appels d'assistance technique)</b> téléphone: ..... 0810 001 105 (Numero Azur) courriel: ..... info@m-audio-france.com télécopieur/fax: ..... 01 72 72 90 52	<b>M-AUDIO Japan -</b> (株式会社エムオーディオジャパン) 460-0002 愛知県名古屋市中区丸の内 2-18-10  テクニカルサポート: ..... 052-218-0859 テクニカルサポート (Macintosh): ..... mac-support@m-audio.co.jp テクニカルサポート (Windows): ..... win-support@m-audio.co.jp Fax: ..... 052-218-0875 ホームページ: ..... http://www.m-audio.co.jp



## Your StudioPro 3 Warranty

### Warranty Terms

M-Audio warrants products to be free from defects in materials and workmanship, under normal use and provided that the product is owned by the original, registered user. Visit [www.m-audio.com/warranty](http://www.m-audio.com/warranty) for terms and limitations applying to your specific product.

### Warranty Registration

Thank you for registering your new M-Audio product. Doing so immediately both entitles you to full warranty coverage and helps M-Audio develop and manufacture the finest quality products available. Register online at [www.m-audio.com/register](http://www.m-audio.com/register) to receive FREE product updates and for the chance to win FREE M-Audio gear.

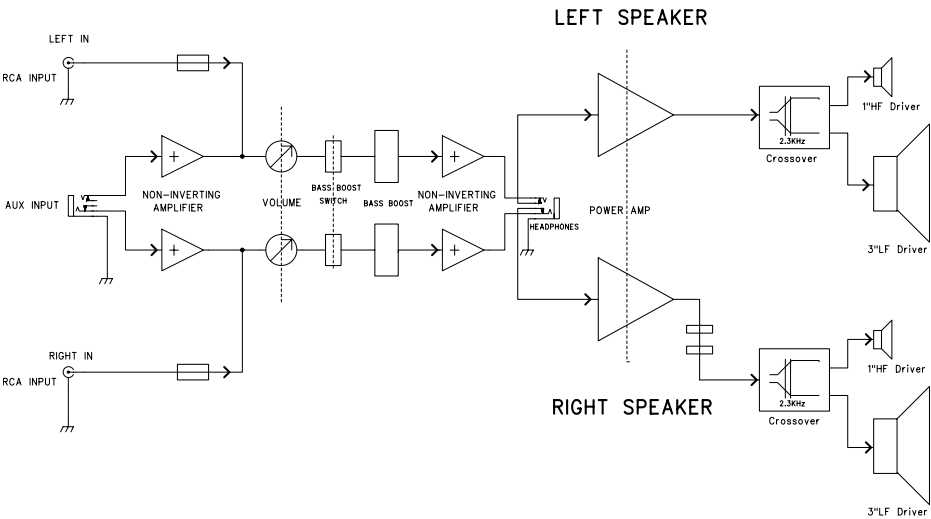
## Appendices

### Appendix A - Technical Specifications

<b>Type:</b>	Two-way desktop reference monitor
<b>LF Driver:</b>	3" diameter, magnetically shielded with curved cone with high-temperature voice coil
<b>HF Driver:</b>	1" diameter, magnetically shielded silk dome
<b>Frequency Response:</b>	100 Hz - 20 kHz $\pm$ 3 dB
<b>Crossover Frequency:</b>	2.3 kHz
<b>RMS SPL:</b>	101.5dB @ 1 meter
<b>Dynamic Range:</b> (Maximum Signal-to-Noise Ratio):	> 80 dB (typical A-weighted)
<b>S/N Ratio:</b>	>90dB (typical, A-weighted)
<b>Input Connectors:</b>	left and right RCA Line input connectors
<b>Polarity:</b>	positive signal at "+" input produces outward low-frequency cone displacement
<b>Dynamic Power:</b>	10 watts RMS into 4 $\Omega$ per channel @ 0.5% THD
<b>Input Impedance:</b>	10 k $\Omega$ unbalanced
<b>Input Sensitivity:</b>	100 mV pink noise input produces 90 dBA output SPL at 1 meter with volume control at maximum
<b>Protection:</b>	RF interference, output current limiting, over temperature, turn on/off transient, subsonic filter
<b>Indicator:</b>	Blue power LED ring around "on/off/volume" knob on front panel
<b>Power Requirements:</b>	100-120V/~60Hz, 220~240V/~50Hz; powered via detachable 2-conductor line cord
<b>Cabinet:</b>	vinyl-laminated MDF
<b>Dimensions:</b>	7.9" (H) x 5.5" (W) x 5.9" (D)
<b>Weight:</b>	8.8 lbs./pair (approx., without packing)

*Specifications subject to change without notice*

Appendix B - Block Diagram



Appendix C - “Bass Boost” Frequency Response Curve

