



# Introduction

RM-3 is a rack mount powered monitor that monitors digital and analog audio signals.

## ■ WARNINGS and PRECAUTIONS

- **CAUTION:** The symbol ⚡ To prevent electric shock hazard, do not connect to mains power supply while grille is removed.
- **WARNING:** An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
- **CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- **CAUTION:** Use of any controls or adjustments or performance of procedures other than those herein specified may result in hazardous radiation exposure.
- **WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- **WARNING:** Do not place the unit on top of any soft, porous, or sensitive surfaces to avoid damaging the surface. Use a protective barrier between the unit and surface to protect the surface.
- **WARNING:** Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.
- **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

- **WARNING:** Do not install this equipment in a confined space such as a book case or similar unit.
- **WARNING:** Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- Do not mix old and new batteries. Do not mix alkaline, standard (carbonzinc), or rechargeable (ni-cad, ni-mh, etc) batteries.



**WARNING:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

## ■ 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. The 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 obstruct 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.
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 the appliance is not compromised.
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 spraying water.
19. Objects containing liquid such as vases must not be put on the appliance.
20. The appliance is not completely isolated from the power supply even if the power switch is in the off position.
21. Appliance shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the appliance.
22. Only use attachments/accessories specified by the manufacturer.
23. Appliances with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
24. The appliance should be placed in a position where an AC plug / inlet can be easily pulled out by hand.
25. The main plug is used as the disconnection device. It shall remain readily operable and should not be obstructed during intended use. To completely disconnect the appliance from supply mains, the mains plug of the appliance shall be disconnected from the mains socket outlet completely.

## ■ Features of the RM-3

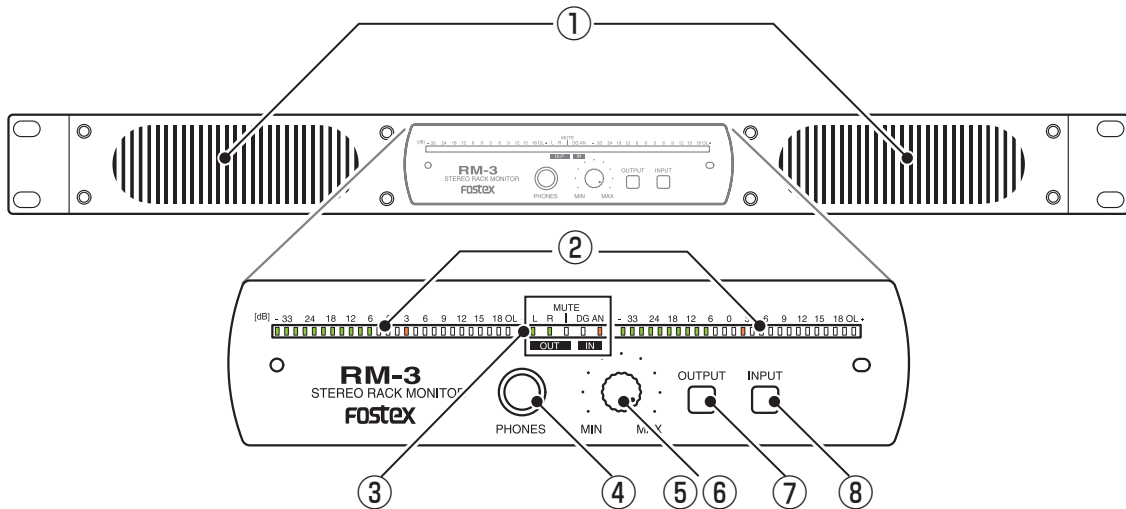
- The unit supports balanced/unbalanced analog input and AES/EBU digital input.
- It has a power saving design with a digital amplifier and switched-mode power supply.
- The 26 dot LED meter supports 4 different display modes: VU, VU+PEAK, VU+PEAK HOLD, PEAK+PEAK HOLD.
- The display has 4 brightness settings.

## ■ Accessories

- Power cable × 1
- Rubber feet × 4
- Safety information sheet × 1
- Owner's manual (this manual) × 1

# Part names and functions

## ■ Front



### ① Speakers

The speakers do not emit any sound while headphones are connected to the [PHONES] jack.

### ② Level meter

### ③ Status display

### ④ [PHONES] jack

### ⑤ Volume knob

### ⑥ Mute button

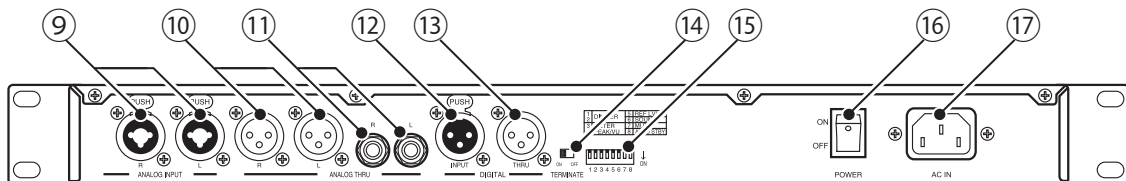
Press the button for approximately one second to mute (⇒ page 6). Cancel mute by briefly pressing the button again.

### ⑦ [OUTPUT] switch

Select an output channel from stereo, L, R, and L+R.

### ⑧ [INPUT] switch

## ■ Back



### ⑨ [ANALOG INPUT] terminals (for both XLR/TS phone)

### ⑩ [ANALOG THRU] terminals (XLR)

Outputs the signal being input through the [ANALOG INPUT] (XLR) terminal.

### ⑪ [ANALOG THRU] terminals (TS phone)

Outputs the signal being input through the [ANALOG INPUT] (TS phone) terminal.

### ⑫ [DIGITAL INPUT] terminal

### ⑬ [DIGITAL THRU] terminal

Outputs the signal being input through the [DIGITAL INPUT] terminal.

### ⑭ [TERMINATE] switch

Turn off if you wish to connect the [DIGITAL THRU] terminal to a digital input terminal on another device.

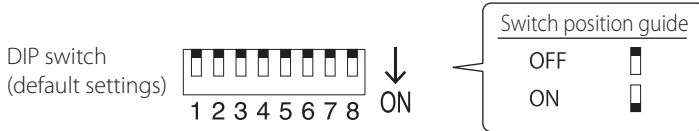
### ⑮ DIP switches

Used to configure various settings (⇒ page 4).

### ⑯ [POWER] switch

### ⑰ [AC IN] terminal

# DIP switch settings



## Display brightness (DIMMER)

1	2	Setting
OFF	OFF	Bright
ON	OFF	
OFF	ON	Dark
ON	ON	



## Level meter type (METER PEAK/ VU)

3	4	Setting
OFF	OFF	VU+PEAK
ON	OFF	VU+PEAK HOLD
OFF	ON	PEAK+PEAK HOLD
ON	ON	VU



## Reference level (REF LVL)

Choose an analog reference level indicated by 0 dB on the level meter.

5	Setting
OFF	+4 dBu (balanced)/-10 dBV (unbalanced)
ON	0 dBu (balanced)/-14 dBV (unbalanced)

The digital reference level is fixed at -20 dBFS.



## Source sound type (SOUND)

There are two sound types. Choose the appropriate sound type.

6	Setting
OFF	MUSIC
ON	VOICE

MUSIC: Ideal for sound sources that have a wide frequency range, such as music.

VOICE: Ideal for sound sources that have a narrow frequency range, such as speech.



## Volume when muted (⇒ page 6) (MUTE)

7	Setting
OFF	Volume: $-\infty$
ON	Volume: -20dB



## Turn the auto standby function on/off (AUTO STBY)

8	Setting
OFF	Auto standby function: Off
ON	Auto standby function: On

### The auto standby function

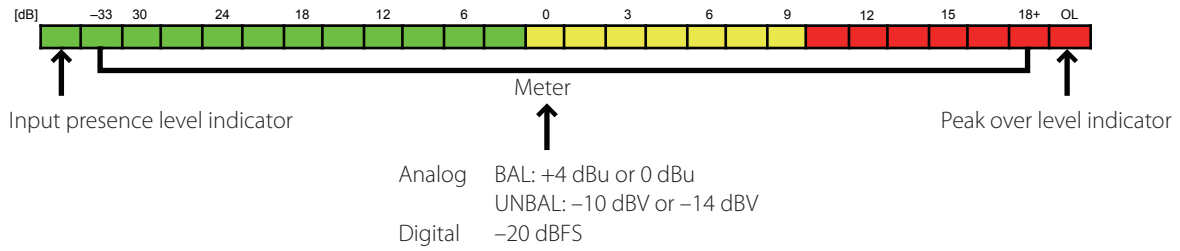
When the "AUTO STBY" DIP switch on the back is set to "on", if input to the unit stays below a certain level for approximately 4 hours, the unit automatically goes into standby.

When in standby, power consumption is reduced to 0.5 W or below. The unit will revert to its normal state when the mute button is pressed.

The auto standby function does not work when the DIP switch is set to "off".

# Meter

## Meter scale



The meter scale has 26 dot LED consisting of a 24 dot level meter, an input presence level indicator and a peak over level indicator. You can choose from four combinations of PEAK and VU to be displayed on the meter ("DIP switch settings" (⇒ page 4)).

### 24 dot LED (VU meter, PEAK meter)

Scale	Alignment Level	Permitted Level
-33 to +18	@0 dB = standard	@+9 dB

- Reference level
- Reference level display position: 0 dB  
You can choose the reference level from +4 dBu/-10 dBV or 0 dBu/-14 dBV using the DIP switches.

### Peak meter specifications

Attack Time	Fall Time	Peak hold time
0.1 msec	1.7 sec/20 dB	2.0 sec

### VU meter specifications

Attack/Fall Time
300 msec/@0 dB

### Input presence level indicator

Presence level	Presence hold time
@-46 dB	1.0 sec

### Peak over level indicator

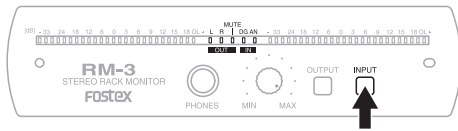
Peak over level
Reference level +20 dB

# Switches and buttons on the front of the unit

## 1 [INPUT] switch

Select the input (analog or digital) to monitor.

The unit will automatically store the switch status within approximately three seconds.

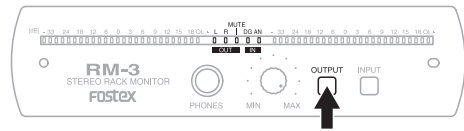


Indicator	Status
DG AN [IN] (Analog indicator lit)	Analog input
DG AN [IN] (Digital indicator lit)	Digital input
DG AN [IN] (Digital indicator lit with unlocked symbol)	Digital input (unlocked)

## 2 [OUTPUT] switch

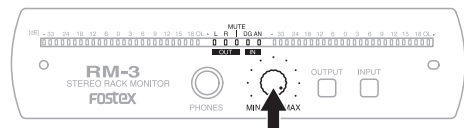
Select the output channel.

The unit will automatically store the switch status within approximately three seconds.



Indicator	Status
L R [OUT] (Stereo indicator lit)	Stereo 
L R [OUT] (L channel indicator lit)	L 
L R [OUT] (R channel indicator lit)	R 
L R [OUT] (Monaural indicator lit)	Monaural (L+R) 

## 3 Mute button

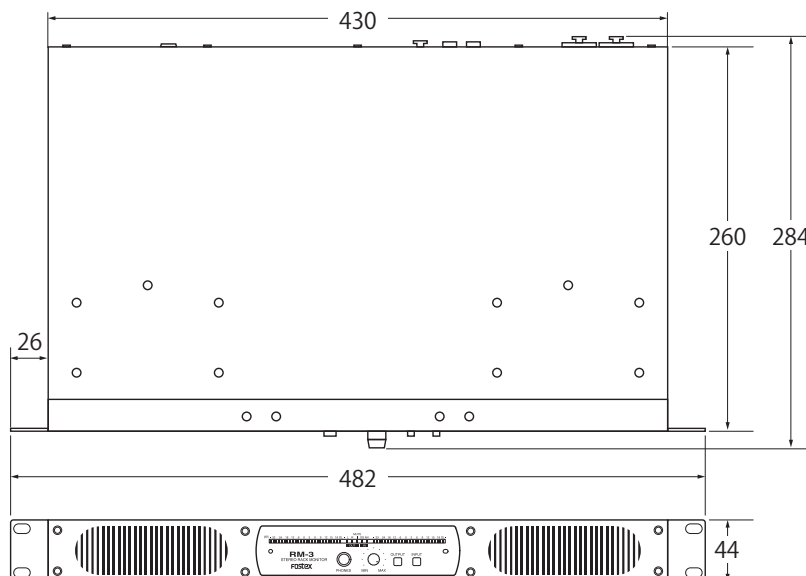


Press the mute button for approximately one second to mute the unit. You can set the unit to standby by pressing the mute button for more than 5 seconds.

When in mute or standby, briefly press the mute button again to return to the normal state.

The unit is never muted (sound can be heard) when it is turned on.

# Dimensions



(Unit: mm)

# Specifications

## Speakers

<b>Built-in unit</b>	110 × 40 mm antimagnetic cone speakers
<b>Impedance</b>	8 Ω
<b>Output sound pressure level</b>	84 dB/W (1 m)
<b>Frequency characteristic</b>	200 Hz to 20 kHz

## Power amplifier

<b>Maximum output</b>	10 W × 2		
<b>Residual noise</b>	-50 dB or less (DIN AUDIO)		
<b>Distortion rate</b>	0.1% or less		
<b>Digital input</b>	Connector	XLR-3-31 type	
	Format	IEC 60958 (AES/EBU)	
	Sampling frequency	44.1 kHz to 96 kHz	
<b>Analog input</b>	Connector	for both XLR/Φ6.3 mm (1/4") TS phone	
	Rated input level	XLR (balanced) +4/0 dBV TS phone (unbalanced): -10/-14 dBV	
	Input impedance	10 kΩ or more	
<b>Digital THRU</b>	Connector	XLR-3-31 type	
<b>Analog THRU</b>	Connector	XLR-3-31 type Φ6.3 mm (1/4") TS phone	
<b>Phones</b>	Connector	Φ6.3 mm stereo phones	
	Adapted load impedance	16 Ω or more	
	Maximum output	20 mW+20 mW (32 Ω, 1 kHz)	
<b>Level meter</b>	Display	26 dot LED × 2	
	Reference level	Digital	-20 dBFS
		Analog	XLR: +4/0 dBu TS phone: -10/-14 dBV

## General

<b>External dimensions (mm)</b>	482 (W) × 44 (H) × 284 (D) (includes protruding parts)
<b>Unit weight</b>	approx. 3.5 kg
<b>Power</b>	AC 100 V to 240 V 50/60 Hz
<b>Power consumption</b>	10 W

## Declaration of EC Directive

This equipment is compatible with the EMC Directive (2004/108/EC) - 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.

### FOSTEX DISTRIBUTORS LIST IN EUROPE

\* Including non-EU countries (as of Jan. 2014)

#### Austria

NAME: Mega Audio GmbH  
ADD: Stromberger Str. 32, 55411 Bingen, Germany  
TEL: (+49) 6721-94330, FAX: (+49) 6721-32046  
Email: info@megaaudio.de  
Web Site: <http://www.megaaudio.de>

#### Belgium

NAME: XLR sprl/bvba  
ADD: Pierre Strauwenstraat 24, 1020 Brussels, Belgium  
TEL: (+32) 2 520 0827, FAX: (+32) 2 521 1977  
Email: info@xlrpro.be  
Web Site: <http://www.xlrpro.be>

#### Czecho

NAME: Praha Music Center spol s.r.o.  
ADD: Ocelarska 937/39, Praha 9, 190 00, Czecho  
TEL: (+420) 226-011-111, FAX: (+420) 226-011-112  
Email: info@pmc.cz  
Web Site: <http://www.pmc.cz>

#### Denmark

NAME: SC Sound A/S  
ADD: Dalgas Alle 15, DK-6600 Vejlen, Denmark  
TEL: (+45) 4399 8877, FAX: (+45) 4399 8077  
Email: mail@sc-sound.dk  
Web Site: <http://www.sc-sound.dk>

#### Finland

NAME: Noretron Oy Audio  
ADD: Mankkaantie 32, FIN-02180 ESPOO, Finland  
TEL: (+358) 10-525-8000, FAX: (+358) 10-525-8010  
Web Site: <http://www.noretron.fi>

#### France

NAME: Sennheiser France  
ADD: 128 bis, avenue Jean-Jaures, 94851 Ivry-sur-Seine Cedex, France  
TEL: (+33) 1 4987 0300, FAX: (+33) 1 4987 0324  
Web Site: <http://www.sennheiser.fr>

#### France

NAME: Selectronic (Speaker Components Only)  
ADD: Zac de L'Oree du Golf, 16 rue Jules Verne, 59790 Ronchin, France  
TEL: (+33) 328 550 328, FAX: (+33) 328 550 329  
Email: contact@selectronic.fr

#### France

NAME: Hamy Sound (Headphones and USB DAC Only)  
ADD: 28 Rue Edith Cavell, 92400 Courvevoie, France  
TEL: (+33) 1 4788 4702, FAX: (+33) 1 4789 4872  
Email: sav@hamysound.com  
Web Site: <http://www.hamysound.com>

#### Germany

NAME: Mega Audio GmbH  
ADD: Stromberger Str. 32, 55411 Bingen, Germany  
TEL: (+49) 6721-94330, FAX: (+49) 6721-32046  
Email: info@megaaudio.de  
Web Site: <http://www.megaaudio.de>

#### Greece

NAME: Bon Studio S.A  
ADD: 6 Zaimi Street, Exarchia, 106.83 Athens, Greece  
TEL: (+30) 210-3809-605, 606, 607, 608  
FAX: (+30) 210-3845-755, 210-3827-868  
Email: bon@bonstudio.gr  
Web Site: <http://www.bonstudio.gr>

#### Hungary

NAME: Mega Audio GmbH  
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Email: info@megaaudio.de  
Web Site: <http://www.megaaudio.de>

#### Italy

NAME: Backline S.u.r.l.  
ADD: Via dell'Aprica, 16 - 20158 Milano, Italy  
TEL: (+39) 02 6901 5709, FAX: (+39) 02 6901 5645  
Email: info@backline.it  
Web Site: <http://www.backline.it>

#### Italy

NAME: Art of Music sas (Hi-Fi system & Speaker Components)  
ADD: Via Dal Lino 23/2, 40134 Bologna, Italy  
TEL: (+39) 347 2532215  
Email: artofmusic@libero.it  
Web Site: <http://www.balloacoustics.it>

#### The Netherlands

NAME: Iemke Roos Audio B.V.  
ADD: Kuiperbergweg 20, 1101 AG Amsterdam, The Netherlands  
TEL: (+31) 20-697-2121, FAX: (+31) 20-697-4201  
Email: sales@iemkeroos.nl  
Web Site: <http://www.iemkeroos.nl>

#### Norway

NAME: Siv. Ing. Benum AS  
ADD: P. O. Box 145, Vinderen, 0319 Oslo, Norway  
TEL: (+47) 2213 9900, FAX: (+47) 2214 8259  
Email: post@benum.no  
Web Site: <http://www.benum.no>

#### Poland

NAME: Mega Music Spolka z o.o  
ADD: Ul. Lesna 15, 81-876 Sopot, Poland  
TEL: (+48) 58-551-18-82, FAX: (+48) 58-551-18-72  
Email: pro@megamusic.pl  
Web Site: <http://pro.megamusic.pl>

#### Portugal

NAME: Letusa (Pro Audio Products Only)  
ADD: C/Laguna No.10, Poligono Industrial Urtinsa, 28923 Alcorcon, Madrid, Spain  
TEL: (+34) 91-4862800, FAX: (+34) 91-6414597  
Email: info@letusa.es  
Web Site: <http://www.letusa.es>

#### Russia

NAME: MS-MAX  
ADD: Entrance 12B, Kutuzovsky prospekt, 30/32, 121165, Moscow, Russia  
TEL: (+7) 495-234-0006, FAX: (+7) 495-249-8034  
Email: office@ms-max.ru  
Web Site: <http://www.ms-max.ru>

#### Spain & Portugal

NAME: ATCONSUMER (Consumer, Hi-Fi system & Speaker Components)  
ADD: PO BOX 15, 08340 Vilassar de Mar, Barcelona, Spain  
TEL: (+34) 609 288310  
Email: info@atconsumer.es  
Web Site: <http://www.atconsumer.es>

#### Spain

NAME: Letusa (Pro Audio Products Only)  
ADD: C/Laguna No.10, Poligono Industrial Urtinsa, 28923 Alcorcon, Madrid, Spain  
TEL: (+34) 91-4862800, FAX: (+34) 91-6414597  
Email: info@letusa.es  
Web Site: <http://www.letusa.es>

#### Sweden

NAME: Benum Nordic AS  
ADD: Aldermansvagen 17, 171 48 Solna, Sweden  
TEL: (+46) 8 207710  
Email: sweden@benum.com  
Web Site: <http://www.benum.se>

#### Sweden, Norway, Finland & Denmark

NAME: Supersonic Svenska AB (Speaker Components Only)  
ADD: PO BOX 42043, 126 12 Stockholm, Sweden  
TEL: (+46) 8 744 4700  
Email: johan@supersonic.se

#### Switzerland

NAME: Audio Bauer Pro AG  
ADD: Bernerstrasse-Nord 182, CH-8064 Zurich, Switzerland  
TEL: (+41) 44 432 3230, FAX: (+41) 44 432 6558  
Email: info@audio-bauerpro.ch  
Web Site: <http://www.audio-bauerpro.ch>

#### Turkey

NAME: Radikal Elektronik Ltd. Sti.  
ADD: Ihlamur-Yildiz Cad, Kessaf Sok. 4/12 Besiktas, Istanbul 34353, Turkey  
TEL: (+90) (212) 259 7971, FAX: (+90) (212) 259 7993  
Email: radikal@radikaltr.com  
Web Site: <http://www.radikaltr.com>

#### UK

NAME: SCV London  
ADD: Unit C1 Belcon Industrial Estate, Geddings Road, Hodesdon, Hertfordshire, EN11 0NT, UK  
TEL: (+44) 03 301 222500, FAX: (+44) 20-8418-0624  
Email: fostex@scvlondon.co.uk  
Web Site: <http://www.scvlondon.co.uk>

#### Ukraine

NAME: A & T Trade Petrosnop  
ADD: 29, Obolonskaya Str., Kiev, Ukraine 04071  
TEL: (+380) 44-462-5358, FAX: (+380) 44-462-5092  
Email: attrade@attrade.kiev.ua  
Web Site: <http://kiev.attrade.ru>