


# Fostex®

Owner's Manual

# AR-4i

## Audio interface



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

## “WARNING”

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

## SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) 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. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.

- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Excessive sound pressure from earphones and headphones can cause hearing loss.

## FCC (U.S.A.) & ICES-003 (Canada) INFORMATION

### 1. IMPORTANT NOTICE

This product, when installed as indicated in the instructions contained in this manual, meets FCC and ICES-003 requirements. Changes or modifications not expressly approved by Fostex Company for compliance could void the user's authority to operate the equipment. **DO NOT MODIFY THIS PRODUCT.**

### 2. IMPORTANT

In order to comply with FCC and ICES-003 requirements, use high quality shielded cables for connection to accessories and / or another products. If any cables are supplied with this product, they **MUST** be used. Follow all installation instructions. Failure to do so could void your FCC / ICES-003 authorization to use this product in the USA / Canada.

### 3. NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 4. Compliance with Part 15 of FCC Rules and Canadian ICES-003.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Introduction

Thank you very much for purchasing the Fostex AR-4i audio interface unit for iPhone 4.

The AR-4i is the best solution to improve audio quality of iPhone video recording and streaming. For details about iOS applications for the AR-4i, see the Fostex website (<http://www.fostex.com>).

<Note>: Be careful not to drop down the unit or the iPhone 4.

Fostex is not responsible for any damages of the unit or the iPhone 4 caused by dropping down.

## Main features

- You can make high quality audio recordings in stereo by using the high-performance supplied microphones or external microphones.
- \* Note that depending on the iOS application for the AR-4i, recording may be made in mono.
- You can control the audio input level.
- You can monitor the audio recording condition via LED metering as well as headphones.
- Tripod or mono pod ready vertically or horizontally for stable recording.

## Supplied accessories

The following are supplied with the AR-4i.

- Microphones x 2
- AAA batteries x 2
- Mono pod x 1
- Pouch x 1
- Owner's manual (this manual) x 1

After purchasing the AR-4i, check that all accessories are included in the package.

## Specifications

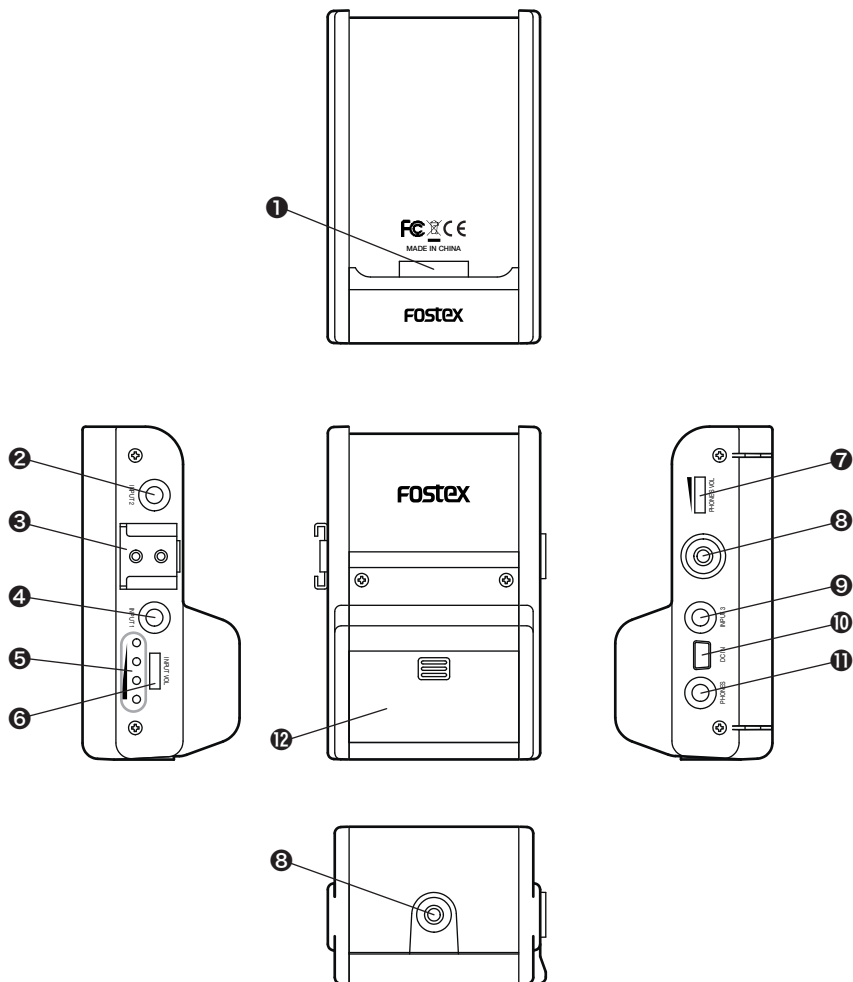
- Supplied power voltage for a plug in microphone: 2.5 V
- USB power voltage: 5 V
- External dimensions: 70 (W) x 106 (H) x 50 (D) mm
- Weight: 200 g

\* Specifications and appearance are subject to change without notice for product improvement.

\* "Made for iPhone," means that an electronic accessory has been designed to connect specifically to iPhone, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

\* iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

## Features and controls



### 1 Dock connector

Used for setting the iPhone 4.

### 2 [INPUT 2] jack (mini jack)

Connects the supplied microphone, a general plug-in powered microphone, or a line level source to this jack.

Using an iOS application, you can select stereo or mono recording. By default, this jack is for the left channel source of stereo recording.

### 3 Camera accessory shoe

Used for mounting a microphone for a camera.

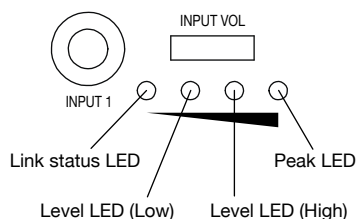
### 4 [INPUT 1] jack (mini jack)

Connects the supplied microphone, a general plug-in powered microphone, or a line level source to this jack.

Using an iOS application, you can select stereo or mono recording. By default, this jack is for the right channel source of stereo recording.

### 5 LED indicators

Four LED indicators show the audio signal level as well as the unit's system status.



#### In the normal condition

According to the audio input level currently being received from the [INPUT 1] through [INPUT 3] jacks, the appropriate LEDs are lit.

- When the receiving signal is relatively low: The Level LED (low) is lit.
- When the receiving signal is relatively high: The Level LED (high) is lit.
- When the receiving signal is too high: The Peak LED is lit.

#### When the battery voltage is too low

The Peak LED flashes.

If a proper power supply is connected to the [DC-IN] jack, the LEDs return to show the input audio condition as above.

#### When an error occurs

The Peak LED quickly flashes.

#### When the unit is recognized by the iPhone 4

The Link status LED is lit.

#### When the iPhone 4 audio is preferentially being output from the [PHONES] jack.

The Link status LED quickly flashes.

### 6 [INPUT VOL] control

Adjusts the audio input levels of the [INPUT 1] through [INPUT 3] jacks.

### 7 [PHONES VOL] control

Controls the monitor level of headphones connected to the [PHONES] jack.

### 8 Mounting holes for mono pod/tripod

Used for mounting the supplied mono pod or a tripod for a compact camera.

Two mounting holes are available on the bottom and the side panel. Use either hole according to whether the unit is used vertically or horizontally.

### 9 [INPUT 3] jack (mini jack)

Connects the supplied microphone, a general plug-in powered microphone, or a line level source to this jack.

Using an iOS application, you can select stereo or mono recording. By default, this jack is for the left channel source of stereo recording.

Note that when both the [INPUT 2] and [INPUT 3] jacks are connected to audio sources, the [INPUT 2] jack takes priority over the [INPUT 3] jack and the audio connected to the [INPUT 3] jack is disabled.

### 10 [DC IN] jack (mini USB port)

By connecting an external USB battery or personal computer using a USB cable, the unit receives external power.

The power received by the [DC IN] jack is used for the unit operation as well as iPhone 4 battery charge. (Note that the unit is not charged.)

### 11 [PHONES] jack

By connecting a stereo headphones, you can monitor the input signal, as well as playback audio of the iPhone 4.

### 12 Battery compartment

Press down and slide the cover off, and insert two AAA batteries in the correct direction.

This compartment also acts as a grip that serves for stable holding.

## 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 July 2011)

### <AUSTRIA>

NAME: Mega Audio GmbH  
ADD: Stromberger Str. 32, D-55411 Bingen, Germany  
TEL: (+49) 6721-94330, FAX: (+49) 6721-32046

### <BELGIUM>

NAME: General Audio  
ADD: Raymond Pelgrimslaan 101, B-1702 Groot-Bijgaarden, Belgium  
TEL: (+32) 2-4630650, FAX: (+32) 2-4661500

### <BULGARIA>

NAME: Shark Art  
ADD: 15 Hristo Popovich Str., Varna 9000, Bulgaria  
TEL: (+359) 52-600172, FAX: (+359) 52-250578

### <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

### <DENMARK>

NAME: Benum Nordic A/S  
ADD: Meterbuen 18, Skovlunde, 2740 Denmark  
TEL: (+45) 4451-8900, FAX: (+45) 4451-8911

### <FINLAND>

NAME: Noretron Oy Audio  
ADD: P. O. Box 22, FIN-02631 Espoo, Finland  
TEL: (+358) 9-5259330, FAX: (+358) 9-52593352

### <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

### <GERMANY>

NAME: Mega Audio GmbH  
ADD: Stromberger Str. 32, D-55411 Bingen, Germany  
TEL: (+49) 6721-94330, FAX: (+49) 6721-32046

### <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

### <HUNGARY>

NAME: ATEC Hungary Kft  
ADD: H-110/ Budapest, Fogado u. 3, Hungary  
TEL: (+36) 1-4319005, FAX: (+36) 1-4319006

### <ICELAND>

NAME: I. D. elrf. electronic Ltd.  
ADD: ARMULA 38 108 REYKJAVIK, ICELAND  
TEL: (+354) 588 5010, FAX: (+354) 588 5011

### <ITALY>

NAME: Proel S. p. A.  
ADD: Zona Via Alla Ruenia, 37/43 64027 - Sant'Omero (Teramo), Italy  
TEL: (+39) 0861-81241, FAX: (+39) 0861-887862

### <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

### <NORWAY>

NAME: Siv. Ing. Benum AS  
ADD: P. O. Box 145, Vinderen, 0319 Oslo, Norway  
TEL: (+47) 2213 9900, FAX: (+47) 2214 8259

### <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

### <SPAIN>

NAME: Letusa S. A.  
ADD: C/Laguna 10, 28923 Alcorcon, Madrid, Spain  
TEL: (+34) 91-4862800, 91-4470898, FAX: (+34) 91-6414597

### <SWEDEN>

NAME: Benum Nordic A/S  
ADD: Aldermansvagen 17, 171 48 Solna, Sweden  
TEL: (+46) 8 207710

### <SWITZERLAND>

NAME: Audio Bauer Pro AG  
ADD: Bernerstrasse-Nord 182, CH-8064 Zurich, Switzerland  
TEL: (+41) 1-4323230, FAX: (+41) 1-4326558

### <UK>

NAME: SCV London  
ADD: 40 Chigwell Lane, Oakwood Hill Industrial Estate, Loughton, Essex IG10 3NY U. K.  
TEL: (+44) 20-8418-0778, FAX: (+44) 20-8418-0624

**Fostex** FOSTEX CO.

3-2-35, Musashino, Akishima-shi, Tokyo Japan, 196-0021

© PRINTED IN JAPAN July 2011 8588117000 540283