### Audio-Technica AT-LP60-USB, AT-LP120-USB, AT-LP240-USB & AT-LP1240-USB Turntables



Software Guide

# **audio-technica**

#### Audio-Technica USB Turntables

#### Contents

A note about software	
System requirements	
Installing Audacity software for Mac OSX and above	
Setting up your Mac (OSX and above) to work with your USB Turntable	
Additional Mac audio settings	6
Installing Audacity software for PC	
Setting up your PC (with Windows XP) to work with your USB Turntable	
Setting up your PC (with Windows Vista or Windows 7) to work with	
your USB Turntable	11
Setting up your PC to work with Audacity	13
Recording albums with Audacity	15
To learn more about Audacity	15

#### A note about software

Your Audio-Technica AT-LP60-USB, AT-LP120-USB, AT-LP240-USB or AT-LP1240-USB turntable is supplied with Audacity recording software for your convenience. Please note that other third-party recording software packages are also compatible with this turntable.

**Audacity** is free software, distributed under the GNU General Public License (GPL). More information and open source code is on the included Audacity CD and on the Audacity web site: http://audacity.sourceforge.net

#### **System Requirements**

PC or Mac with an available USB port (USB1.1 or higher)

CD-R or CD-RW writer for burning CDs & installation

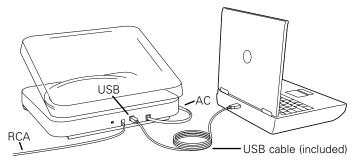
Audacity requires: Mac running OSX\* or; PC running Windows (XP or above\*)

**\*NOTE:** For use with Windows 7, Windows Vista and Mac OSX 10.6/10.7: If the Audacity recording software included with this turntable is version 1.2.6, please download Audacity recording software for these operating systems from http://audacity.sourceforge.net.

Mac is a trademark of Apple Inc., registered in the U.S. and other countries. Windows is a registered trademark of Microsoft Corporation in the U.S. and other countries.

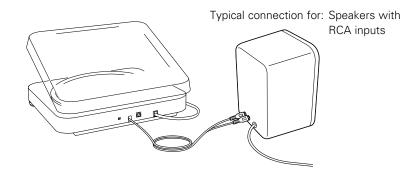
#### Installing Audacity software for MAC OSX and above

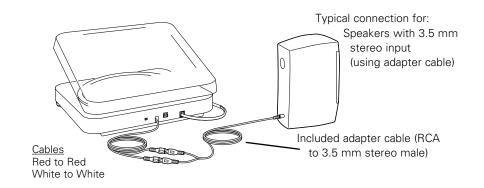
- **1.** Before installing software, assemble the turntable, following directions in the included Owners Manual.
- 2. Plug the AC cord on your turntable into an AC power outlet.
- 3. Next, use the included USB cable to connect the turntable to your Mac's USB port.



4. If you have external self-powered speakers, make certain they are plugged into your computer's audio input or into the line-out RCA plugs of the USB turntable, and that the Phono/Line switch on your turntable is switched to Line. (Audacity offers a software play-through feature that allows you to listen to the album through your computer while recording, even if you don't have external speakers.) If your computer has a headphone output, you can choose to monitor your recording with headphones.

**NOTE:** On the AT-LP240-USB and the AT-LP1240-USB, the RCA cables are not permanently attached to the turntable; they plug into the RCA jacks on the back of the turntable. See the AT-LP240-USB and AT-LP1240-USB owner's manuals for cable connection instructions.

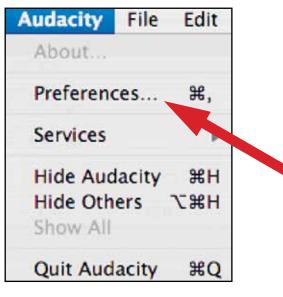




- 5. Turn your computer on.
- 6. Insert the included Audacity CD in your Mac's CD drive. Open the CD icon on your desktop. Drag the installation folder for Audacity to your applications folder. When the files have been copied, eject the CD.

### Setting up your MAC (OSX and above) to work with your USB Turntable

- 1. Open the Audacity program.
- 2. Select Preferences from the Audacity menu.



- 3. Select Audio I/O tab at the top left.
  - Under Playback, Device, select Built-in Audio.
  - Under Recording, Device, select USB Audio CODEC.
  - Under Recording, Channels, select 2 (Stereo).
  - Check the box marked **Software Playthrough**.

0.0			Audacity Pref	erences			
Audio I/O	Oustra	File Formats	Spectrograms	Directories	Interface	Keyboard	Mous
Playback							
Device:	Built-in Au	dio					
Recording							
Device:	USB Audio	CODEC					
Channels	2 (Stered	5)					
Software	Playthrough	(Play new track	k while recording while recording i (such as sample r	σ			
					-	Cancel ) (	OK

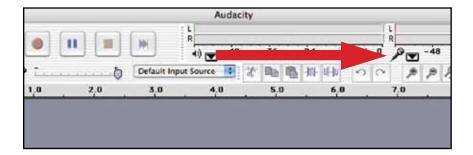
### Setting up your MAC (OSX and above) to work with your USB Turntable

#### 4. Next, select Quality tab at the top.

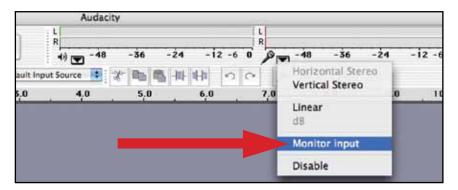
- Default Sample Rate: 44100 Hz.
- Default Sample Format: 16-bit.
- Real-time sample rate converter: Fast Sinc Interpolation.
- High-quality sample rate converter: High-quality Sinc Interpolation.
- Real-time dither: None.
- High-quality dither: Triangle.
- Select OK to save settings and exit Preferences menu.

0.0	_	Audacity Pref	erences			
Audio 1/O Quality	ats	Spectrograms	Directories	Interface	Keyboard	Mouse
Default Sample Rate: 44100	Hz	10				
Default Sample Format: 16-8	pit					
Real-time sample rate converte	Fast	Sinc Interpolat.				
High-quality sample rate conve	erter: 🗄	ligh-quality Sinc I				
Real-time dither: None						
High-quality dither: Triangle						
				G	ancel) (	ОК

- **5.** Next, from the main Audacity window, select the drop-down box (arrow pointing down) next to the microphone at the right side of your screen.
  - If you don't see the drop-down box or the microphone pictured below, return to Preferences Menu (see step 2, page 17). Select the Interface tab. Check Enable Meter Toolbar. This will allow you to see the microphone with the drop-down box on your main screen.



 Select Monitor Input from the drop-down menu. NOTE: You will need to select this setting every time you launch Audacity. The other settings selected above will be saved when you exit the program.



### Additional MAC audio settings

We have set the Audacity playback and record settings. Now it's time to set the separate Macintosh audio playback and record settings.

1. Go to Applications > Utilities > then select and open Audio MIDI Setup.

2. In the Audio Midi window under the tab Audio Devices, select the following:

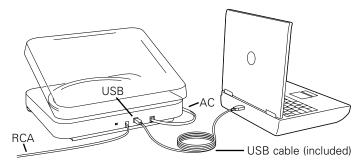
- Under System Settings, Default Input, select USB Audio CODEC.
- Under System Settings, Properties For, select USB Audio CODEC.
- Under Default output, select Built-in Audio, or Built-in Output.
- For System output, select Built-in Audio.

This will allow other programs (in addition to Audacity) to use your Mac's internal sound card for audio output.

Settings Input:	\$ U5	S8 Audi	9		Devices		IDI Devic	es					
	\$ US	SB Audi	o CO0	NEC.	-	0.20							
			_		•		fault Out tem Out		-		Audio Audio		
ies For:			o COI	DEC	•	-	Configur	re Spea	kers	í			- (
nput —	_					Au	dio Out	put -		<u></u>		_	
er Stream		-	- (\$			-	Master 5	tream			•	_	
et Defa	ult:				12		Source:	Def	ult.				\$
at: 4410	0.0 Hz	•	2ch-16	bit			Format:	4410	0.0 Hz	۲	2ch-1	6bit	
me Slider	1	Value	dB		Thru	Ch	Volume :	Slider		- 1	Value	dB	Mute
		<i>n/a</i>				M	0			-	n/a	n/a	0
						2	_			-			_
	rce: put	rce: Defau pput er Stream E: Default 44100,0 Hz	rce: Default put r Stream E: Default a: 44100.0 Hz	rce: Default put er Stream 2) - e: Default f: 44100.0 Hz 2ch-16 ne Slider Value d3 n/a n/a n/a n/a	rce: Default  put  rf Stream  rf Stream  rf 44100,0 Hz  Chaile  rf 44100,0 Hz  Chaile  rf 44  rf 4  rf	rce: Default	rce: Default	rce: Default © Configur put Audio Outg er Stream © Master 5 se: Default © Cch-16bit © Format: t: 44100.0 Hz © Zch-16bit © Format: ne Slider Value dB Mute Thru Ch Volume 1 n/a n/a 0	rce: Default Configure Spea put Audio Output - er Stream : E: Default	rce: Default  Configure Speakers  pput  ar Stream  c Default  c De	rce: Default Configure Speakers	rce: Default Configure Speakers  put  r Stream  r Default  r Stream  r Default  r Stream   Stream    Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream   Stream	rce: Default © Configure Speakers  pput  ar Stream  c Default  c D

### Installing Audacity software for PC

- **1.** Before installing software, assemble the turntable, following directions in the included Owners Manual.
- 2. Plug the AC cord on your turntable into an AC power outlet.
- 3. Next, use the included USB cable to connect the turntable to your PC's USB port.

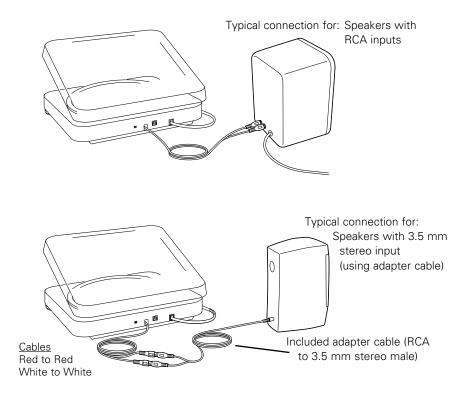


**NOTE:** If the signal drops out when using the USB output on a Windows-based desktop computer:

- Make certain you are utilizing a USB port on the CPU portion of your computer. Do not use the USB ports on a hub or monitor, as there is unregulated power to these ports which can cause loss of USB connection. Please check the Microsoft website for additional detail if needed.
- 2. Check to make certain the cable is secured in both the turntable and computer.
- **3.** On the AT-LP240-USB and the AT-LP1240-USB, make certain the Line/Phono switch is set to the "Line" position when using the USB output.

4. If you have external self-powered speakers, make certain they are plugged into your computer's audio input or into the line-out RCA plugs of the USB turntable, and that the Phono/Line switch on your turntable is switched to Line. (Audacity offers a software play-through feature that allows you to listen to the album through your computer while recording, even if you don't have external speakers.) If your computer has a headphone output, you can choose to monitor your recording with headphones.

**NOTE:** On the AT-LP240-USB and the AT-LP1240-USB, the RCA cables are not permanently attached to the turntable; they plug into the RCA jacks on the back of the turntable. See the AT-LP240-USB and AT-LP1240-USB owner's manuals for cable connection instructions.



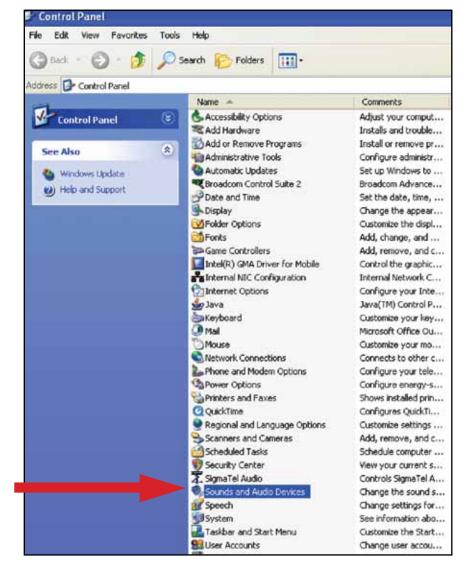
- 5. Turn your computer on.
- Insert the included Audacity CD. An Audacity window will appear. Click Audacity Setup icon to install. Follow the directions on the pop-up windows to install the software.
- 7. Re-start your computer.

#### Setting up your PC (with Windows XP) to work with your USB Turntable

- 1. Close programs operating on your computer.
- Start menu > Control Panel > Sounds and Audio Devices
   Begin at your Start menu. Select Control Panel.



Select (double-click) Sounds and Audio Devices.



#### **3.** The following screen will pop up:

Sounds a	nd Audio De	vices Prop	erties	?
Volume	Sounds	Audio	Voice	Hardware
Ø,	USB Audio Cl	DDEC		
Device v	olume			
0	Low	сэлл	1.11.1	High
	Mute			
	Place vol	ume icon in t	ne taskbar	
			Adv	vanced
Speaker	settings	_		
		settings below volume and o		
	Speal	ker Volume	Adv	vanced
		ОК	Cancel	Apply

#### 4. Select the Voice tab.

- In the Voice playback area of the window, select your computer's internal
- In the voice prayback area of the window, select your computer's internal sound card (*not* USB Audio CODEC; *not* Microsoft Sound Mapper).
   In the Voice recording area of the window, select USB Audio CODEC. Click Apply. NOTE: If the "USB Audio CODEC" option does not appear, check the USB cable to ensure it is properly connected to the USB port.

hese settings control to ume and advanced options for the velocities of the velociti	/olume	Sounds	Audio	Voice	Hardware
Default device:         SigmaT el Audio         Volume         Volume         Advanced         Voice recording         Default device:         USB Audio CODEC	hese se layback	ettings control or restanding de	white and adv evice you select	vanced option cted.	ns for the voi
Voice recording Default device: USB Audio CODEC	Voice p	layback			
Volume Advanced Voice recording Default device: USB Audio CODEC	0.	Default device	<b>5</b> .		
Voice recording Pefault device: USB Audio CODEC	9)	SigmaTel Au	dio		~
Default device: USB Audio CODEC			Volume	Ad	vanced
USB Audio CODEC	Voice r	ecording			
	P	Default device	ə:		
Volume Advanced	18	USB Audio C	ODEC		
			Volume	Ad	vanced
Test hardware.				Test	hardware

### Setting up your PC (with Windows XP) to work with your USB Turntable

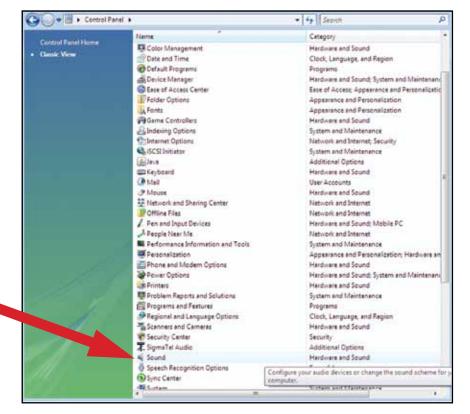
5. Next, select the Audio tab.

- In the **Sound playback** area of the window, select your computer's internal sound card.
- In the Sound recording area of the window, select USB Audio CODEC.
- Check the following box: Use only default devices.
- Click **Apply**; then click **OK**.

Volume Advanced MIDI music playback Default device:	olume	Sounds Audio Voice Hard	lware
<ul> <li>SigmaTel Audio</li> <li>Volume</li> <li>Advanced</li> <li>Sound recording</li> <li>Default device:</li> <li>USB Audio CODEC</li> <li>Volume</li> <li>Advanced</li> <li>WIDI music playback</li> <li>Default device:</li> <li>Microsoft GS Wavetable SW Synth</li> </ul>	Sound	alter	
Volume       Advanced         Sound recording       Default device:         USB Audio CODEC       Volume         Volume       Advanced         Volume       Advanced         Volume       Default device:         MIDI music playback       Default device:         Microsoft GS Wavetable SW Synth       Volume	<b>1</b> 0).	Default device:	
Sound recording Default device: USB Audio CODEC Volume MIDI music playback Default device: Microsoft GS Wavetable SW Synth	9	SigmaTel Audio	~
Default device: USB Audio CODEC Volume Advanced MIDI music playback Default device: Microsoft GS Wavetable SW Synth		Volume Advanced	
Default device: USB Audio CODEC Volume Advanced MIDI music playback Default device: Microsoft GS Wavetable SW Synth	Sound	ecording	
USB Audio CODEC Volume Advanced  MIDI music playback Default device: Microsoft GS Wavetable SW Synth			
MIDI music playback Default device: Microsoft GS Wavetable SW Synth	1		~
MIDI music playback Default device: Microsoft GS Wavetable SW Synth			
Microsoft GS Wavetable SW Synth		Volume Advanced	
Microsoft GS Wavetable SW Synth	MIDI m	usic playback	
		Default device:	
Volume About	allen)	Microsoft GS Wavetable SW Synth	~
Potente		Volume About	

**1.** Start menu > Control Panel > Sound. Begin at your Start menu. Select Control Panel (classic view).

#### 2. Select (double-click) Sound.



 Select the Recording tab. Make sure that the USB Audio CODEC is set as the default recording device. (You should see a green check mark beside USB Audio CODEC.)

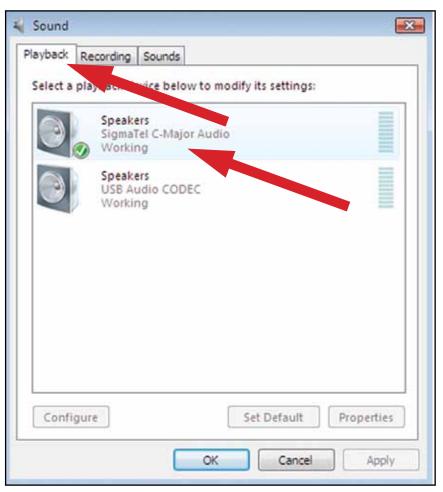
**NOTE:** If the "USB Audio CODEC" option does not appear, check the USB cable to ensure it is properly connected to the USB port.



### Setting up your PC (with Windows Vista or Windows 7) to work with your USB Turntable

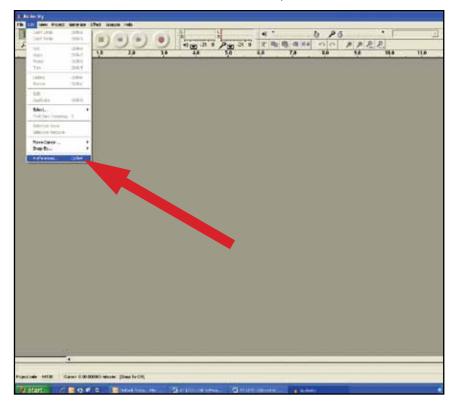
- 4. Select the **Playback** tab. Select your internal sound card speakers (these are usually the first listed).
- 5. Click Apply; then click OK.

6. Close your Control Panel.



### Setting up your PC to work with Audacity

- **1.** Launch the Audacity program from your Start menu.
- 2. Select Preference from the Edit tab in the Audacity Menu.



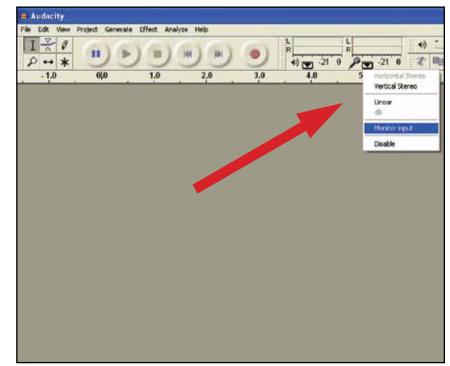
- 3. Select Audio I/O tab at the top left.
  - Under Playback, Device, select your internal sound card.
  - Under Recording, Device, select USB Audio CODEC.
  - Under Recording, Channels, select 2 (Stereo).
  - Check the box marked Software Playthrough.

dacity Pre	Tile Formats	Spectrograms	Directories   I	Interface   Keyb	oard   Mous	e
Playback Devicer	SignaTel Audio					•
- Recording -						
Device:	USB Audio CODEC	2				•
Channels:	2 (Stereo)					•
and the second second second	tracks while record Naythrough (Play ne		cording it)			
				Ca	incel	ОК

- 4. Next, select Quality tab at the top.
  - Default Sample Rate: 44100 Hz.
  - Default Sample Format: 16-bit.
  - Real-time sample rate converter: Fast Sinc Interpolation.
  - High-quality sample rate converter: High-quality Sinc Interpolation.
  - Real-time dither: None.
  - High-quality dither: Triangle.
  - Select **OK** to save settings and exit Preferences menu.

udio 1/0 Quality Fi	le Formats   Spectrograms   (	Directories Interface	Keyboard Mo	use
Delauit Struce Rate: Delau Sample Forma	44100 H 44100			
	converter: Fast Sinc Interpo te converter: High-quality Si ne 💌			
tish-quality dither.	friangle 💌			

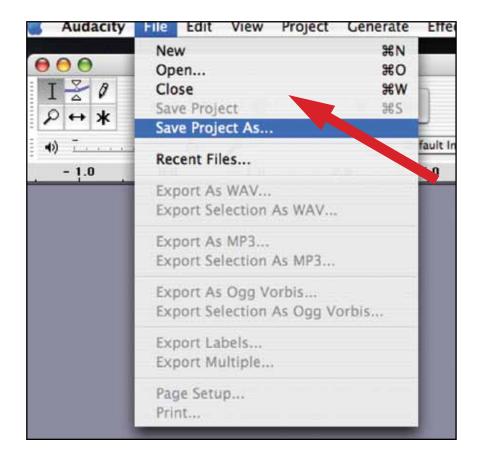
- **5.** Next, from the main Audacity window, select the drop-down box (arrow pointing down) next to the microphone near the middle of your screen.
  - If you don't see the drop-down box or the microphone pictured above, return to Preferences Menu (see step 2, page 21). Select the Interface tab. Check Enable Meter Toolbar. This will allow you to see the microphone with the drop-down box on your main screen.
  - Select **Monitor Input** from the drop-down menu. **NOTE**: You will need to select this setting every time you launch Audacity. The other settings selected above will be saved when you exit the program.



To get started with Audacity, follow the instructions below. For in-depth information on recording and saving projects, please visit the on-line Audacity manual at http://audacity.sourceforge.net/manual-1.2/index.html

1. Saving a project

- Audacity writes all the changed and recorded audio to a directory called **Projectname\_data**, which is located right where you saved the project file itself.
- Thus, select **Save project as** from your Audacity File tab and choose a location and filename for your project.
- Please note that when you startup Audacity fresh, only the "Save As..." menu option is available.

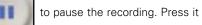


- 2. How to record
  - Set your USB turntable up to play the song or album you want to record.
  - Click on the red Record button



to begin recording.

- Lower tone arm on USB turntable onto album and track you want to record.
- Click on the blue Pause button again to continue.



• Click on the yellow Stop button.



That's it. You can now play around with your recording and explore the editing capabilities of Audacity. Remember that you can use the Undo function almost without limits while the project is open.

**NOTE:** CD's cannot be burned directly from the Audacity application. Other CD burning applications should be used.

## To learn more about Audacity

For in-depth information on recording and saving projects, please visit the on-line Audacity manual at http://audacity.sourceforge.net/manual-1.2/index.html

To reduce the environmental impact of a multi-language printed document, product information is available online at www.audio-technica.com in a selection of languages.

Afin de réduire l'impact sur l'environnement de l'impression de plusieurs, les informations concernant les produits sont disponibles sur le site www.audio-technica.com dans une large sélection de langue.

Para reducir el impacto al medioambiente, y reducir la producción de documentos en varios leguajes, información de nuestros productos están disponibles en nuestra página del Internet: www.audio-technica.com.

Para reduzir o impacto ecológico de um documento impresso de várias linguas, a Audio-Technica providência as informações dos seus produtos em diversas linguas na www.audio-technica.com.

Per evitare l'impatto ambientale che la stampa di questo documento determinerebbe, le informazioni sui prodotti sono disponibili online in diverse lingue sul sito www.audio-technica.com.

Der Umwelt zuliebe finden Sie die Produktinformationen in deutscher Sprache und weiteren Sprachen auf unserer Homepage: www.audio-technica.com.

Om de gevolgen van een gedrukte meertalige handleiding op het milieu te verkleinen, is productinformatie in verschillende talen "on-line" beschikbaar op: www.audio-technica.com.

本公司基於環保理由將減少多語言文件印刷,陸續產品訊息可在 www.audio-technica.com 的官方網頁 上選擇語言與瀏灠。

### 本公司基于环保理由将减少多语言文件印刷,陆续产品信息可在www.audio-technica.com的官方网页上选择语言与浏灠。

자원절약, 환경보호를 위해 국문 사용 설명서는 인쇄하지 않았습니다. 제품정보는 www.audio-technica.com 에서 원하는 언어 선택 후에 다운로드 받으실 수 있습니다.



#### Audio-Technica U.S., Inc. 1221 Commerce Drive, Stow, Ohio 44224 (330) 686-2600 audio-technica.com

©2011 Audio-Technica U.S., Inc.