Instruction Manual

ATR2100-USB
Cardioid Dynamic USB/XLR Microphone

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Compliance with FCC rules (USA only)
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.

FCC WARNING
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Canada only
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.

Thank you for buying the Audio-Technica ATR2100-USB cardioid dynamic USB/XLR microphone. Equipped with both USB and an XLR outputs, this digital/analog mic is designed both for live performance and digitally capturing music or any acoustic audio source using your favorite recording software.

The ATR2100-USB offers high-quality articulation and intelligibility perfect for home studio recording, field recording, podcasting, voiceover, and on-stage use. Its cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source.

The microphone also features a built-in headphone jack with volume control that allows you to directly monitor your microphone’s output during recording. The microphone’s focused pickup pattern delivers excellent off-axis rejection, while its A/D converter with a 16-bit, 44.1/48 kHz sampling rate ensures clear, articulate sound reproduction.

Audio-Technica’s state-of-the-art design and manufacturing techniques ensure that the microphone complies with the company’s renowned consistency and reliability standards.

Features
• Handheld dynamic microphone with USB digital output and XLR analog output
• USB output connects to your computer for digital recording, while the XLR output connects with your sound system’s conventional microphone input for use in live performance
• Smooth, extended frequency response ideally suited for podcasting, home studio recording, field recording, voiceover, and on-stage use
• Built-in headphone jack allows you to directly monitor your microphone’s output without audible delay
• Adjust headphone volume with easy-to-use controls on the bottom of the microphone
• High-quality A/D converter with 16-bit, 44.1/48 kHz sampling rate
• Compatible with Windows and Mac
• Low-mass diaphragm provides excellent frequency response
• Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
• Tripod desk stand with folding legs for secure and easily portable tabletop use
• Pivoting, threaded stand mount attaches securely to the supplied tripod or to a conventional microphone stand
• USB and XLR cables included
• Durable metal construction for long-lasting performance
• On/off switch functions for both USB and analog operation
1. **Windscreen**—Multi-stage grille design offers excellent protection against plosives and sibilance without compromising high-frequency clarity

2. **Capsule**—Dynamic microphone element with cardioid polar pattern

3. **Blue LED**—Blue light shows mic is receiving USB power (**Note:** The blue LED is not affected by the on/off switch position)

4. **ON/OFF switch**—Functions for both USB and analog operation

5. **Metal construction**—Tough, durable, resilient design

6. **Headphone level control**—Up/Down dial controls headphone volume

7. **XLR connector**—XLR connector with analog output for connection to PA system’s conventional microphone input

8. **USB**—USB connector for connection to your Mac or PC

9. **Headphone Jack**—1/8-inch (3.5mm) stereo jack for connecting your headphones

10. **USB cable**

11. **XLRM to XLRF cable**

**Setting up your microphone with included pivot mount and tripod desk stand**

A. Screw the pivot mount microphone mount onto the threaded portion of the desk stand.

B. Extend the tripod legs to provide a wide, secure base, and place the tripod desk stand on a flat surface.

B. Install the ATR2100-USB microphone into the microphone mount, with ON/OFF switch up

C. The top of the microphone should be facing the sound source.

D. Use a screwdriver or coin to loosen and tighten the pivot screw for angle adjustment.

E. Plug the provided USB cable into the USB output at the base of the microphone, or plug the provided XLR cable into the microphone input of your sound system.

**Note:** Many recording software programs are available online. Audacity is widely used free software for recording and editing sounds. It is available online at [http://audacity.sourceforge.net/](http://audacity.sourceforge.net/)
1. Plug the free end of the provided USB cable into the USB port on your computer. The microphone’s blue LED will illuminate, indicating the microphone is receiving power. Your computer will automatically recognize the USB device and install a driver.

2. To select the ATR2100-USB as your audio input, first, open your System Preferences.
3. Next, click Sound to display the **Sound** preference pane.

![Sound preference pane](image1.png)

4. Click the **Input** tab and select the **ATR2100-USB** as the device for sound input.

![Input tab](image2.png)

Your preferences are now set to use the ATR2100-USB on your Mac with GarageBand or another recording program of your choice.
Preliminary setup with Windows XP

(Service Pack 2; other operating systems may vary slightly)

1. Plug the free end of the USB cable into the USB port on your computer. The microphone’s blue LED will illuminate, indicating the mic is receiving power. Your computer will automatically recognize the USB device and install a driver.

2. In the lower right portion of your screen you may see a message that new hardware was found; or you may see a driver software installation notice.

3. To select the ATR2100-USB as your default recording device, begin at your Start menu. Select Control Panel.
4. Select Sounds and Audio Devices.
Preliminary setup with Windows XP (continued)

5. Select the **Audio** tab, and choose **ATR2100-USB** as the default device.

6. Adjust computer volume by clicking on the **Volume** button beneath Sound recording Default device.

7. Through the **Wave In** window, you can set the computer volume or mute the microphone.

Your preferences are now set to use the ATR2100-USB with Windows XP with the recording program of your choice.
1. Plug the free end of the USB cable into the USB port on your computer. The microphone’s blue LED will illuminate, indicating the mic is receiving power. Your computer will automatically recognize the USB device and install a driver.

2. In the lower right portion of your screen you may see a message that new hardware was found; or you may see a driver software installation notice.

3. To select the ATR2100-USB as your default recording device, begin at your Start menu. Select Control Panel.

4. Select (double-click) Sound.

5. Select the Recording tab. Make sure that the AT2100-USB microphone is set as the default recording device. (You should see a green check mark beside the USB microphone icon.)

Your preferences are now set to use the ATR2100-USB with Windows Vista with the recording program of your choice.
Preliminary setup with Windows 7

1. Plug the free end of the USB cable into the USB port on your computer. The microphone’s blue LED light will illuminate, indicating the mic is receiving power. Your computer will automatically recognize the USB device and install a driver.

2. In the lower right portion of your screen you may get a message that new hardware was found; or you may see a driver software installation notice.

3. Start menu > Control Panel > Sound
   To select the ATR2100-USB as your default recording device, begin at your Start menu. Select Control Panel.
4. Select Sound.

5. The following screen will pop up:
6. Select the **Recording** tab, and choose **ATR-USB Mic** as the default device.

7. Double click on the ATR-USB-Mic icon to open the **Microphone Properties** window. Select the levels tab to adjust microphone level (loudness). You may need to come back to this window to readjust the level after you begin recording.

Your preferences are now set to use the ATR2100-USB with Windows 7 with the recording program of your choice.
Additional Information

Using headphones
The 1/8" (3.5 mm) headphone jack on the bottom of the microphone allows you to directly monitor your recording with a pair of headphones. When your preliminary setup is completed, and your USB microphone is connected to your computer’s USB port (the microphone’s blue LED is illuminated), plug your headphones into the headphone jack on the bottom of the microphone. While talking into the microphone, you should hear yourself in the headphones. Adjust the volume up or down by rotating the the Up/ Down dial on the bottom of the microphone. **Note:** The Up/ Down dial only adjusts the volume of the mic’s headphone output; it does not adjust the microphone level.

Selecting software
You have many choices in recording software. Audacity, available for free online at http://audacity.sourceforge.net/, is a widely used software program that provides basic recording software.

Setting your software levels
Correct adjustment of microphone level is important for optimum performance. Ideally, the microphone level should be as high as possible without overloading the input of your computer. If you hear distortion, or if your recording program shows levels that are consistently overloaded (at peak levels), turn the microphone volume (or level) down, either through your control panel (or system preferences) settings, or through your recording software. If your recording program shows insufficient level, you can increase the microphone gain either from the control panel (or system preferences) settings or through your recording program.

No further microphone level adjustments should be needed, as long as the acoustic input does not change significantly.

Positioning your microphone
It is important to position the microphone directly in line (on axis) with the person speaking/singing or instrument (or other sound source) to achieve the best frequency response of the microphone.

For use in speaking/singing applications, the ideal placement for the microphone is directly in front of the person speaking/singing. The same placement is optimal when miking an instrument such as an acoustic guitar, drums or piano. Experiment with different mic placements to find the best sound for your particular setup.

XLR operation
For live-sound applications, connect the XLRF connector of the included XLR cable to the XLRM output on the bottom of the microphone; connect the cable’s XLRM connector to a standard XLRF microphone input on your mixer. Turn the microphone’s ON/OFF switch to the “ON” position. Set the microphone’s level by following the instructions included with your mixer. **Note:** The ON/OFF switch does not affect the LED.

Protecting your microphone
Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen’s mesh surface, can degrade performance.
ATR2100-USB Specifications†

Element: Dynamic
Polar Pattern: Cardioid
Frequency Response: 50 – 15,000 Hz
Power Requirements: USB Power (5V DC)
Bit Depth: 16 bit
Sample Rate: 44.1 kHz/48 kHz
Controls: On/off switch; headphone volume control
Weight: 268 g (9.5 oz)
Dimensions: 183.0 mm (7.20”) long, 51.0 mm (2.01”) maximum body diameter
Output Connector: USB-type/XLR-type
Headphone Output Power: 10 mW @ 16 ohms
Headphone Jack: 3.5 mm TRS (stereo)
Accessories Included: Stand clamp for 5/8”-27 threaded stands, tripod desk stand, 2 m (6.6’) mini USB cable, 3 m (9.8’) XLRF-type to XLRM-type cable
System Requirements: Macintosh: MAC OS X; USB 1.0 or 2.0; 64 MB RAM (minimum)
Windows: XP/Vista/Windows 7; USB 1.0 or 2.0; 64 MB RAM (minimum)
†In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request. Specifications are subject to change without notice.

Frequency Response

Polar Pattern
This product is warranted in the U.S.A. by Audio-Technica U.S., Inc. (A.T.U.S.) for the lifetime of the original purchaser. During the warranty period, A.T.U.S. will repair or replace these products, provided they are sent prepaid to the address below, with proof of original purchase and $15.00 for handling and return to a U.S. address. Check or money order required; no cash or stamps. A.T.U.S. reserves the right to replace any product with one of equal value.

Except to the extent precluded by applicable state law, A.T.U.S. will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Outside the U.S.A., please contact your local dealer for warranty details.

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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.