

AKAI

Operator's manual

PROFESSIONAL USB TURNTABLE

ATT10U



Ⓞ These Operating Instructions accompany this product. They contain important information on setting up and using the device. You should refer to these instructions, even if you are buying this product for someone else.

Please retain these Operating Instructions for future use! A list of the contents can be found in the Table of contents, with the corresponding page number, on page 49.

Dear customer,

Thank you for purchasing this product.

We kindly request the user to follow the operating instructions to preserve this condition and to ensure safe operation!

Please read the operating instructions completely and observe the safety and operating instructions before using the product.

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1. Intended Use

The turntable is intended to play gramophone records at 33 1/3, 45 or 78 rpm. It should be connected to a sound amplifier or a mixing desk with appropriate phono inputs or to computer with USB connection. After installing the included software, you can record or edit audio signals from the turntable to your personal computer.

It utilises belt drive system, which improves motor and platter isolation and reduces low-frequency rumble compared to direct drive system. The turntable includes a S-shaped tone arm reinforced with anti skating mechanism.

It must be powered by 230V, 50Hz or 115V, 60Hz and is only authorised to be used in dry indoor environments.

Any usage other than described above is not permitted and can damage the product and lead to associated risks such as short-circuit, fire, electric shock, etc. No part of the product may be modified or rebuilt.

Please read the operating instructions thoroughly and keep them for further reference.

2. Delivery contents

- Turntable
- Turntable platter
- Slip mat
- 45-rpm adapter
- Counterweight
- Headshell
- Cartridge
- LED needle light
- USB cable
- Phono cable
- Mains cable
- Software CD
- Operating instructions

3. Explanation of symbols

The following symbols must be observed:



The lightning symbol with arrowhead within an equilateral triangle is intended to alert the user to the presence of uninsulated voltage within the device's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



An exclamation mark within an equilateral triangle indicates important information in the operating instructions. Carefully read the whole operating instructions before operating the device, otherwise there is risk of danger.



The "hand" symbol indicates special information and advice on operation of the device.



The turntable is constructed in compliance with protection class 2 (double or extra insulation).

4. Safety instructions



We do not assume liability for resulting damages to property or personal injury if the product has been abused in any way or damaged by improper use or failure to observe these operating instructions. The warranty will then expire!

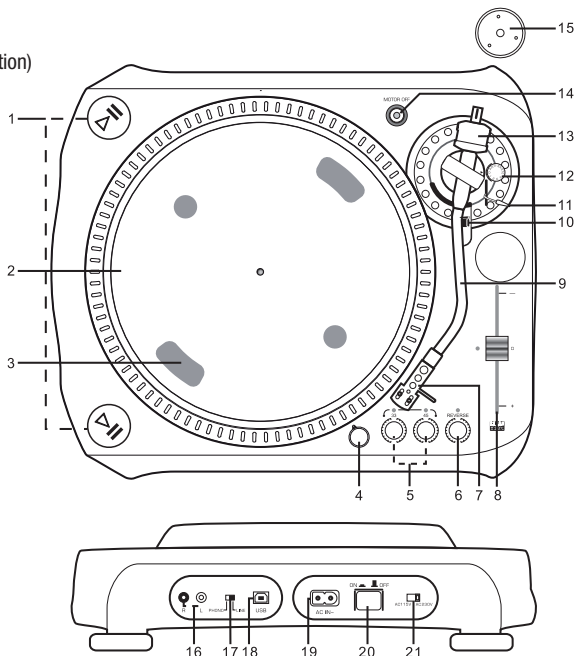
- Unauthorised conversion and/or modification of the device are inadmissible because of safety and approval reasons (CE).
- The operating instructions of connecting devices, such as power amplifier or mixing deck, must likewise be observed before installation and operation of the product.
- The turntable must not be subjected to heavy mechanical stress.
- The turntable must not be exposed to extreme temperatures, direct sunlight, intense vibration or dampness.
- No object should block the ventilation holes of the turntable. Sufficient air flow must be provided since the power adapter is predominantly cooled by convection ventilation.
- The housing of the turntable must not be opened. Capacitors in the device may still be charged even if the device has been disconnected from voltage source. There is risk of mortal electric shock when touching electric components inside.
- Before cleaning or connecting the turntable to other devices, the turntable must be disconnected from all electricity sources.
- The turntable is capable of producing loud music, after a longer period of time, sufficient to cause permanent hearing damage. Make sure to set the volume of the amplifier to a comfortable level.
- If there is reason to believe that safe operation is no longer possible, put the device out of operation and secure it against unintended operation. Safe operation is no longer possible if:
 - the device shows visible damages,
 - the device no longer works,
 - the mains cable or connecting cables become wore out or otherwise damaged,
 - the device was stored under unfavourable conditions for a long period of time and
 - the device was subject to considerable transport stress.
- In commercial institutions, the accident prevention regulations of the Employer's Liability Insurance Association for Electrical Systems and Operating Materials are to be observed.
- Electric devices are not toys and have no place in the hands of children and pets.
- Servicing, adjustment or repair works must only be carried out by a specialist/ specialist workshop.
- If any questions arise that are not answered in this operating instruction, please contact our Technical Advisory Service or other experts.

5. Operating elements

(see fold-out, page 3)

A) Top side

1. “▶▶” buttons (both buttons have the same function)
2. Platter
3. Drive hub
4. LED needle light
5. Speed selection buttons (“33” and “45”)
6. “REVERSE” button
7. Headshell
8. Pitch control slider
9. Tone arm
10. Tone arm rest and clamp
11. Tone arm lift lever
12. Anti-skate knob
13. Counterweight
14. “MOTOR OFF” button
15. 45 rpm adapter



B) Rear panel

16. Phono output
17. “PHONO/ LINE” selection switch
18. USB port (USB cable limit within 3M)
19. Power receptacle
20. Power button (☰ = on; ☷ = off)
21. Input voltage selector

6. Setup and connection



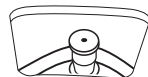
Before making connection, switch off the turntable and the connecting devices and then disconnect them from mains sockets.

Take out the turntable and its accessories from the packaging. The accessories can be found in the protective polystyrene parts of the packaging.

Position the turntable on a horizontal and stable surface and at a sufficient distance from the loudspeakers. When experiencing feedback, direct the radiation field of your loudspeakers away from the turntable.

A) Setup

1. Place the platter (2) on the centre spindle. Make sure that the platter (2) can rotate uniformly and does not wobble excessively.
2. Rotate the platter (2) until the drive hub (3) is visible through either one of the rectangular openings on the platter.
3. Reach into the hole and pull the rubber drive belt over the drive hub (3). Be careful not to twist the rubber drive belt.
4. Place the slip mat on top of the platter (2).
5. Attach the tone arm counterweight (13) to the rear end of the tone arm (9). The scale of the counterweight (13) should be facing toward the headshell (7).
6. Secure the tone arm (9) to the tone arm rest with the clamp (10) before installing the headshell (7).
7. Insert the headshell (7) to the tone arm (9) and then turn the fastening collar anticlockwise. Do not over-tighten the fastening collar.
8. Install the LED needle light (4) to the phono socket on the top of the turn table.



B) Connection

Connecting to other audio devices

Connect the phono outputs (16) of the turntable to the phono inputs of an amplifier or a mixing desk through the provided phono cable (red = right channel; white = left channel).

Depending on the type of phono inputs of the connecting device, the “PHONO/ LINE” selection switch (17).

- Set the switch to “PHONO” for plugging into magnetic-phono inputs of the connecting device.
- Set the switch to “LINE” for plugging into CD/ AUX/ TAPE (line level) inputs of the connecting device



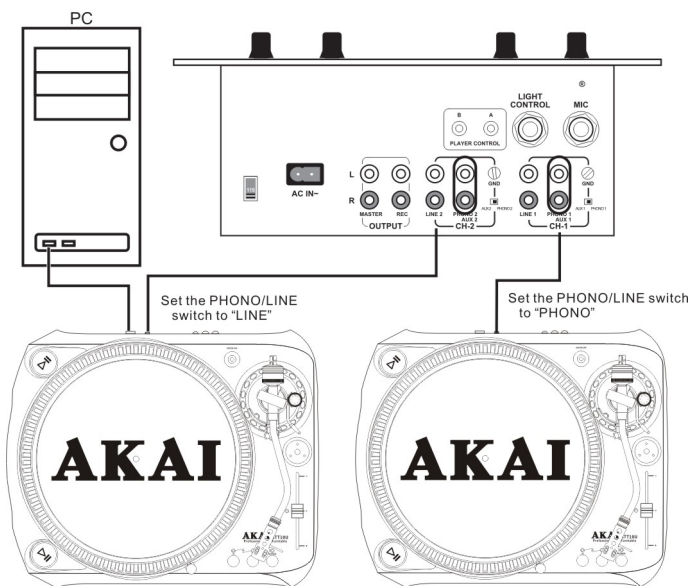
The connecting device may be damaged, if the turntable was to be connected to a magnetic-phono input while the switch is set to “LINE”.

Connecting to computer

Connect the USB port (18) of the turntable to a vacant USB port of a computer via USB cable.

A software CD is included with an open source software, Audacity, Licensed under the GNU General Public License (GPL) which can record and edit audio signal from USB signal to computer.

For installation and operation instructions and details please visit <http://audacity.sourceforge.net/>.



C) Connecting to mains



Before connecting the turntable to the mains socket, make sure that the power button (20) is in \blacksquare (OFF) position.

Ensure that the voltage selector (21) is set to the correct national voltage level (230V or 115V).

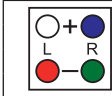
The manufacturer is not liable for damage resulting from an incorrect setting of the voltage selector.

1. Connect the mains cable to the power receptacle (19) of the turntable.
2. Make sure the input voltage selector (21) is set to “230V”.
3. Plug the mains cable to a mains socket.

D) Replacing the cartridge

Replace the cartridge after roughly 400 hours of use. The cartridge included in the product is Audio-Technica® AT3600L.

1. Switch off the turntable.
2. Secure the tone arm (9) to the tone arm rest with the clamp (10).
3. Turn the fastening collar clockwise and then detach the headshell (7).
4. Unscrew the two screws on headshell (7) and then separate the cartridge from the headshell (7).
5. Connect a new cartridge to the headshell (7) while observing the pin assignment, which is shown as below.

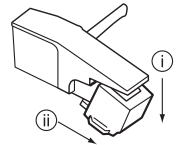
	Wire Colour	Channel and polarity
	White (L+)	Left, plus terminal
	Blue (L-)	Left, negative terminal
	Red (R+)	Right, plus terminal
	Green (R-)	Right, negative terminal

6. Affix the new cartridge to with the screws and nuts. The screws should be aligned perpendicular to the headshell (7).
7. Set the distance between the stylus and the centre spindle. The distance should be set to 16mm for optimal playback.
8. Tighten the screws and nuts.

Replacing the stylus

Instead of replacing the whole cartridge, you can replace the stylus only.

1. Switch off the turntable.
2. Secure the tone arm (9) to the tone arm rest with the clamp (10).
3. Turn the fastening collar clockwise and then detach the headshell (7).
4. Put the stylus guard on the cartridge.
5. Press down and remove the stylus.
6. Insert a new stylus that is compatible with the cartridge.
7. Attach the cartridge to the tone arm (9).



AUDACITY SOFTWARE OVERVIEW

Audacity is free software, licensed under the GNU General Public License(GPL).

More information as well as open source code can be found on the web at

<http://audacity.sourceforge.net/>

*** Please ensure you have installed the software before starting.**

SET UP PROCEDURE

1. Connect an input source to the unit.
2. Connect the USB lead to your computer.
3. Install the Audacity recording software.
4. Open the Audacity program.
5. Go to EDIT then PREFERENCES.
6. Click AUDIO I/O tab.
7. Choose recording device USB AUDIO CODEC from the drop down menu.
8. Choose CHANNELS (2 STEREO)
9. Tick SOFTWARE PLAY THROUTH BOX
10. Click OK.

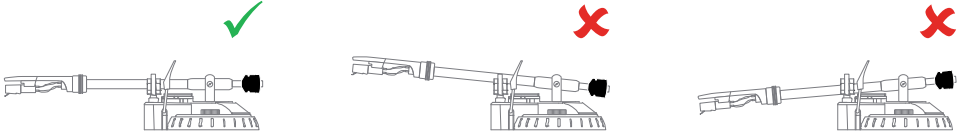
RECORDING & SAVING TRACKS

1. Play the track to be recorded.
2. Click the RED record button on the computer.
3. When you have finished the recording, click the YELLOW stop button.
4. You can now click FILE and choose to save your recording.
5. Click the GREEN play button to playback your finished recording.

7. Operation

A) Blancing the counterweight

1. Make sure the turntable is level.
2. Place the tone arm (9) between the platter (2) and the tone arm rest (10).
3. Remove the stylus guard.
4. Twist the counterweight (13) back and forth until the tone arm (9) hover perfectly horizontally
Carefully support the tone arm (9) with a finger to avoid it falling and thus damage the stylus.



5. Return the tone arm (9) to the rest (10) and secure it with the clamp.
6. Turn the number dial on the front of the counterweight (13) gently, while holding the counterweight (13), until "0" align with the black broken line on the tone arm (9). Beware not to disturb the counterweight setting.
7. Set the stylus tracking force according to the dial with the manufacturers recommended one. Turn the counterweight (13) in anticlockwise direction until the desired force is reached. The recommended setting for the supplied system is "3".

B) Setting anti-skate compensation

Set the anti-skate knob (12) to match the tracking forces set previously. For example, if you set the tracking force at 3 grams, set the anti-skate at "3" also.

If the turntable is experiencing excessive skipping during back-cueing and scratching while nearing the centre spindle, try to spindle, try increasing the anti-skate in the increments indicated on the dial.

C) Playing records

1. Check through all connections and adjustments again.
2. Press the power button (20) to turn on/ off the turntable (☐ = on; ■ = off).
3. Put a record on the turntable with the side you want to listen to face upward. Place the 45rpm adapter (15) on the centre spindle if necessary.
4. Set the revolution speed selection buttons (5) according to the record playing speed.
 - Press "33" button to play 33 1/3 rpm records
 - Press "45" button to play 45 rpm records
 - Press both buttons simultaneously to play 78 rpm records.
5. Press "REVERSE" button (6) to play the record in reverse. To deactivate the function, press "REVERSE" button (6) again.
6. Press "▶||" button (1) to play the record. The turntable will start to rotate.
7. Release the clamp of the tone arm rest (10) and remove the stylus guard.
8. Lift the tone arm lift lever (11), so the tone arm will rest on the tone arm lift (11).
9. Move the tone arm (9) gently so the stylus is over the desired groove of the record.
10. Lower the tone arm lift (11), the stylus will slow engaged to the record.
11. Press "▶||" button (1) again to stop playing immediately or press "MOTOR OFF" button (14) to stop playing slowly.

D) Revolution speed fine tuning

1. Use the pitch control slider (8) to set the revolution speed ($\pm 10\%$).
2. Slide the slider (8) upward to reduces the playing speed, and downward to increase playing speed.
3. If the pitch is set to 0%, the red LED next to the slider (8) will be lit.

8. Maintenance

Clean the stylus tip frequently, using a soft brush with a back to front motion only.

The exterior of the turntable should be cleaned with a dry, clean and soft cloth only. Do not use carbon-containing cleaning agents, petrol, alcohol or similar substances for cleaning purposes.

Before moving the turntable, unplug it from the mains socket and fasten the tone arm to the tone arm rest with the clamp.

Always use the slip mat during record playback.

Handling

- Never plug the power plug into a mains socket immediately after the appliance has been taken from a cold to a warm environment. The condensation water that develops may lead to the appliance malfunctioning.
Allow the appliance to reach room temperature before connecting it to the power supply. Wait until the condensation water has evaporated.
- Never connect or disconnect power plugs with wet hands.
- Never disconnect power plugs from the mains socket by pulling at the cable.
Always pull out the power plug, holding it at the contact surfaces provided for this purpose.
- Always pull the power plug out of the mains socket if the appliance is not going to be used for longer periods of time.
- To ensure an adequate ventilation, there must be an open area of 5cm around the housing. Apart from this, the air circulation may not be obstructed by objects such as magazines, table cloths, curtains or similar.
- For safety reasons, always disconnect the power plug from the mains socket during thunderstorms.

Transportation

The following instructions should be followed before transportation:

- Disconnect the mains cable, pull out the phono cables.
- Secure the pick-up arm with the tone arm rest and the clamp.
- Put the protective plastic stylus guard.
- Remove the cartridge.
- Remove the tone arm counterweight.
- Remove the platter and slip mat.
- Pack the appliance back into its original packing.

9. Troubleshooting

In purchasing the wireless camera system, you have acquired a reliable, state-of-the-art product. Problems and malfunctions may, however, still arise.

For this reason, the following is a description of how you can eliminate possible malfunctions yourself.



Always adhere to the safety instructions!

Error	Possible cause
The turntable does not work	<ul style="list-style-type: none">• Is the turntable switched on?• Is the mains plug inserted into the mains socket?• Check the mains socket. Does it have a regular supply of power?
The turntable is working, but no sound can be heard	<ul style="list-style-type: none">• Is the audio source connected correctly to the input on the amplifier/mixing desk?• Is the stylus guard still in place?• Is the tone arm lift lifted?• Has the correct phono input been selected on the amplifier/mixing desk?• Has the volume control on the amplifier/mixing desk been set to its minimum?• Is the amplifier/mixing desk and the loudspeakers properly connected?
Reproduction is only through one channel	<ul style="list-style-type: none">• Is one of the cinch fittings incorrectly inserted?• Is the balance control on the amplifier/mixing desk incorrectly set?
The tone of the playback sound is too low or high	<ul style="list-style-type: none">• Has the speed been correctly set?
The playback is distorted	<ul style="list-style-type: none">• Has the stylus force been set correctly?• Is the stylus defective or worn down?• Has the anti skating compensation been set correctly?• Is the record or stylus dirty?• Is the tone arm counterweight set correctly?
The pick-up arm can not be lowered	<ul style="list-style-type: none">• Is the tone arm counterweight set correctly?



Repairs other than those just described should only be performed by an authorised electrician.

10. Disposal



The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste.

Please, dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipments waste.

In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

11. Technical data

Operating voltage:	230 V~ 50 Hz/ 115 V~ 60 Hz
Power consumption:	5,5 W
Playback speed:	33 1/3, 45 , 78 RPM
Pitch regulation:	± 10%
Signal-to-Noise ratio:	>60 dB
Frequency response:	20 Hz-20kHz
Flutter:	<0,2% WRMS (JIS WTD)
Tracking error angle:	<3°
Start- and Stop-time:	<1 s
Time for speed alteration:	<1 s
Effective tone arm:	230.5 mm
Cartridge weight:	6-10g
Dimensions(LxWxH):	370 x 449 x 145 mm
Weight:	3,8 kg

For more information and warranty conditions, please visit: www.akai.eu