

Anycut KNC81

Key Cutting Machine

User Manual



Shenzhen Xtooltech Intelligent Co., LTD

Please read this user manual carefully before using Anycut KNC81 Key Cutting Machine. When reading the manual, please pay attention to the words “Note” or “Caution” and read them carefully for appropriate operation.

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DECLARATION

This manual is designed for the usage of Anycut KNC81 Key Cutting Machine, and provides operating instructions and product descriptions for users of the Anycut KNC81 Key Cutting Machine.

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Use the device only as described in this manual. Xtool is not responsible for any consequences of violating the laws and regulations caused by using the product or its data information

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or the failure made by the user not to use the product according to the manual.

All information, specifications and illustrations in this manual are based on the latest configurations and functions available at the time of printing. Xtool reserves the right to make changes at any time without notice.

OPERATION INSTRUCTIONS

To avoid personal injury and/or machine damage, please make sure that you have read this manual carefully and follow the following safety precautions:

- Make sure that you are using this machine under a safe environment.
- Please close the protection cover when the machine is processing.
- Do not put hair, hand, clothes, other tools etc. near machining area when processing.
- When processing, please pay attention to the operations of the machine and do not leave it alone.
- Please make sure the flat side of the plug is on the top when charging. The machine will ring an alarm if plugged in a wrong way.
- Do not use a power socket that's damaged or loosened.

- If you are not using the machine for a long time, please pull out the power supply.
- Do not put this machine into humid, greasy, or dusty areas.
- Do not put any tools or containers on the machine.
- Please put this machine on a level and steady surface.
- Please make sure the machine is dry and clean.
- When abnormalities happened, shut down the power immediately.

CAUTIONS!

- Avoid shaking or dismantling the unit as it may damage the internal components.
- Do not use hard or sharp objects to touch the LCD screen;
- Do not use excessive force;
- If necessary, calibrate the screen before testing to ensure the accuracy of LCD performance.
- Keep the main unit away from strong magnetic fields.
- Adapter shall be installed near the equipment and shall be easily accessible. The plug considered as disconnect device of adapter.
- Containing Rechargeable Lithium-ion battery.

FCC COMPLIANCE

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 the 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 try 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

- 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.

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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1 GENERAL INTRODUCTION

Anycut KNC81 key cutting machine is a professional device that is customized for global locksmith communities. It's Mobile, lightweight, fast and accurate, designed to cut various car mechanical keys precisely.

As an innovative mobile key cutting machine, Anycut has these following features:

- Control via tablet & Integrated database.
- Mobile, fast & accurate.
- Long battery life with high-energy lithium battery.
- Support inner milling/side milling/face milling/Tubular key and more.
- Equipped with probe & cutter.
- Supports OTA update.

KNC81 Main Unit

The main unit of the Anycut is the key cutting machine itself. It is used to finish the cutting process.

Front View of Machine



- ① **Protection Cover:** Close it to avoid debris spattering around when the machine is working.
 - ⓘ The motor will not activate when you leave the protection cover up.
- ② **Tablet:** You can touch the screen and finish all operations.
- ③ **Tablet Holder:** Used to support the tablet, flexible adjustment of the tablet height as needed.
- ④ **Probe & Cutter Holder:** Install the probe and the cutter into these holders.

- ⑤ **Emergency Start/Stop Button:** Rotate the button clockwise to start the machine, push the button to emergency shut down the machine.
- ⑥ **Clamp Holder:** Used to hold and lock the clamp. It's controlled by X/Y-axis motors for cutting keys.
- ⑦ **Debris Tray:** Used to collect debris when cutting keys.
 - ① Please clean the tray regularly.
- ⑧ **Tool Tray:** Used to storage tools or key blanks.

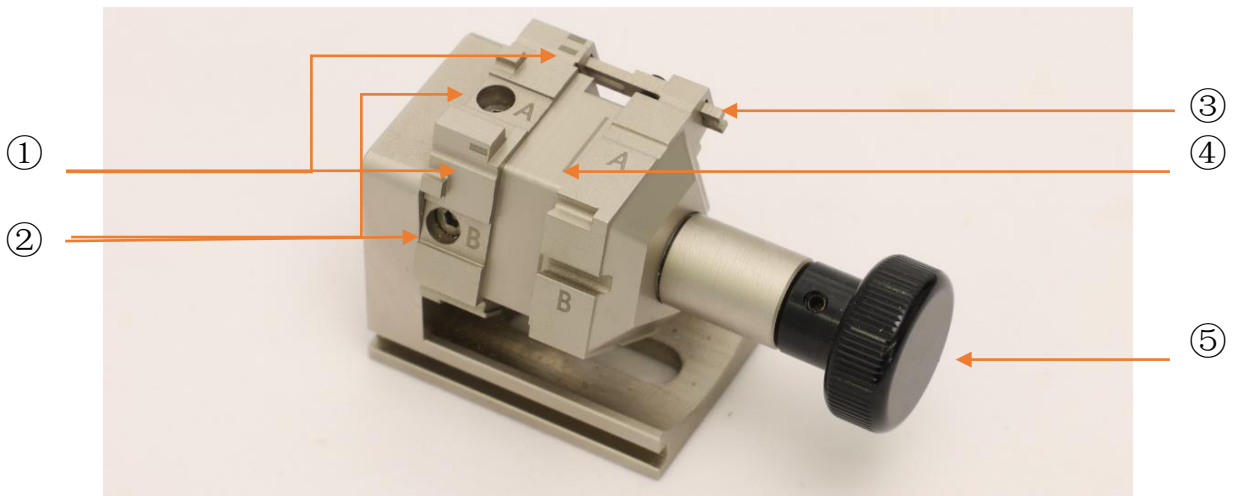
Back View of Machine



- ⑨ **Charging Port:** Works as a power supply for the machine, and also charge the battery inside.
 - ① Make sure the flat side of the socket is on the top when inserting.
- ⑩ **Nameplate:** Shows information, serial number and notifications of the machine.

Clamp

To cut the keys properly, Anycut needs a clamp to hold the keys and key blanks tight. The picture below shows the 5-side clamp that is fitted with the Anycut key cutting machine.



- ① **Markers:** Align the keys to the markers to hold the key in place.
- ② **Tightness Adjustment Screw:** Use a hex wrench to adjust the tightness of the clamp. The tighter the screws, the harder the clamp rotates and change sides.
- ③ **E-Side Key Fixator:** Tighten the screw on the top to fix the key on E-Side clamp in place.
- ④ **Limit Marker:** Shows the limit of the right side of the clamp.
 - ⓘ Do not move the right slider too far away from the marker.
- ⑤ **Knob:** Used to move the right side of the clamp to fix(or unfix) the key.

Technical Specifications

Item	Description
OS	Android 5.1
Processor	Quad-core processor 1.8GHz
Display	7-inch touch screen, 1024×600 resolution
Upgrade	OTA Update via Wi-fi
Size (Package)	705×349×380 mm
Size (Main Unit)	397×256×303 mm
Net Weight	18Kg
Motors	● Ball screw motors for XY axis ● Brushless motor for Z axis
Route	● X: 40mm ● Y: 37.5mm ● Z: 22.5mm
Max Spindle RPM	12000RPM
Ports	● Charging port
Battery	3900mAh
Input Voltage	24V/5A
Operating Temperature	0~50°C
Relative Humidity	10-90%

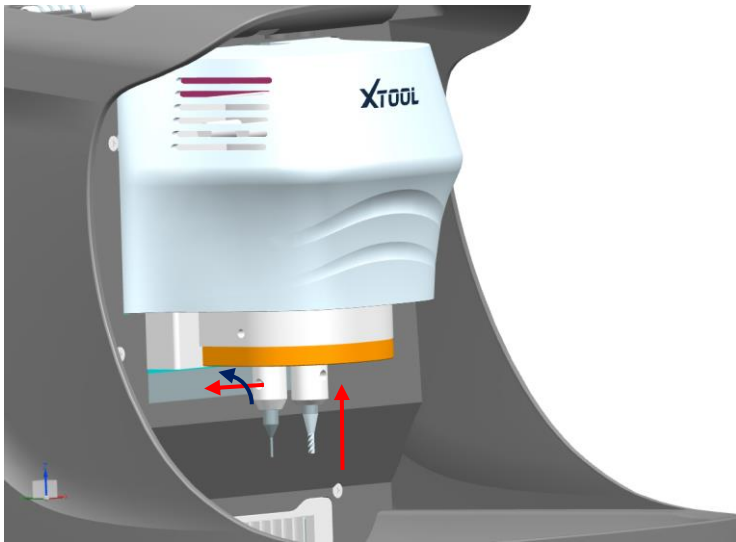
BT	BT5.0
Wifi	2.4GHz/5GHz

2 GETTING STARTED

How To Install

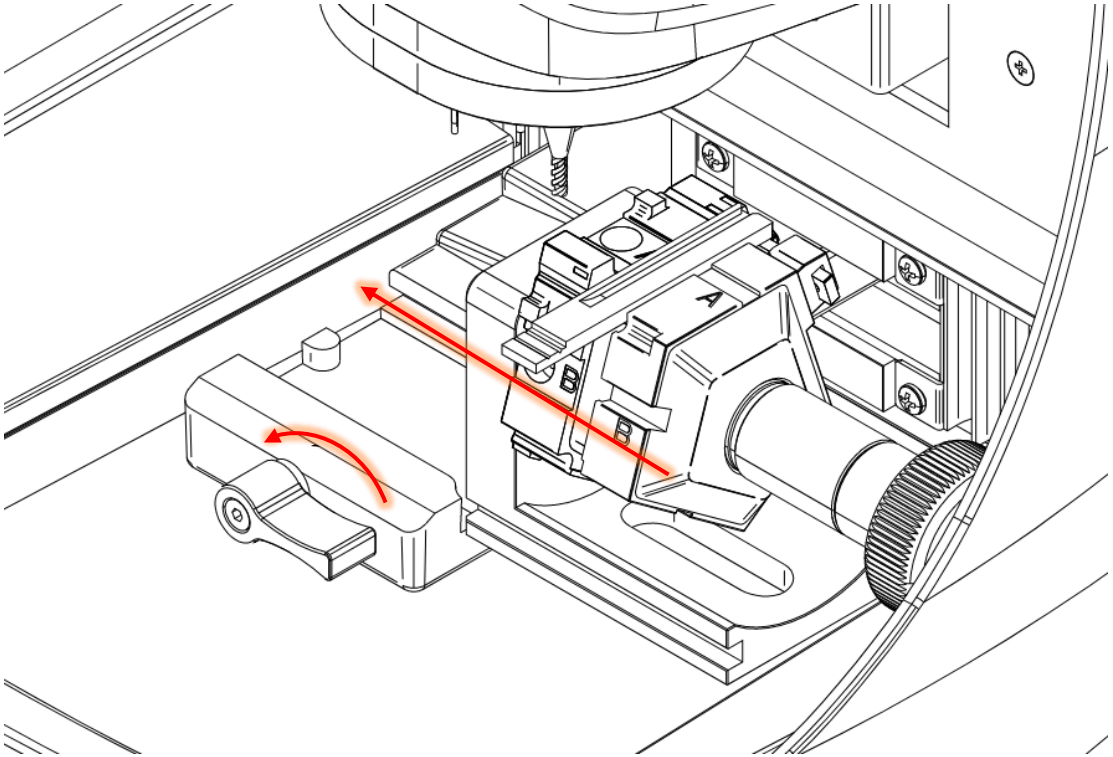
Before you are using Anycut Key Cutting Machine, you need to install all the components properly to make it works.

Installing Cutter & Probe



- 1) Take out the cutter and the probe and take the screw out from the holders.
- 2) Insert the probe (left) and the cutter (right).
 - ① When inserting the cutter, please notice there is a flat side on it. Make sure the flat side is aligned with the screw hole of the holder.
- 3) Install the screw inside the holder.
 - ① After you installed or uninstalled the cutter and the probe, please operate a height adjustment. For details, please check “Height Level Adjustment”.
 - ① The uninstallation process is almost the same – take the screw out and pull the probe and cutter out.
 - ① The cutter is a sharp object so please protect your hands when installing or uninstalling.

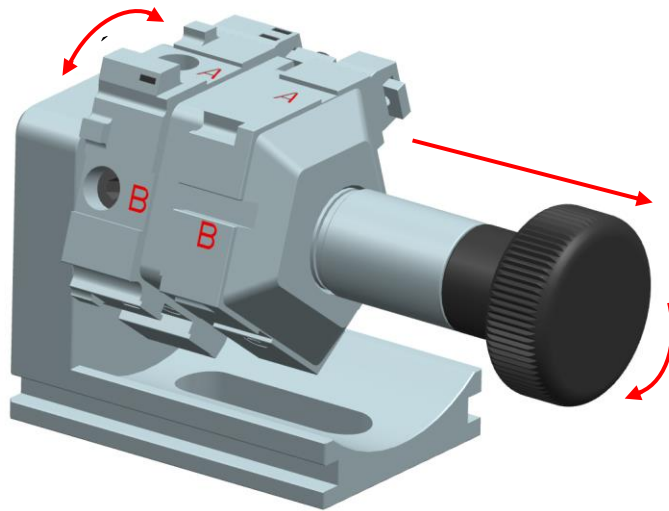
Installing Clamp



- 1) Make sure the clamp holder is on the left side of the machine, and the switch is unlocked (heading right).
- 2) Slide the clamp inside the groove of the holder, and turn the switch to the left to lock the clamp.

① You can put the clamp over the left side of the holder as the machine will detect the location of the clamp automatically when cutting.

Changing Sides of the Clamp

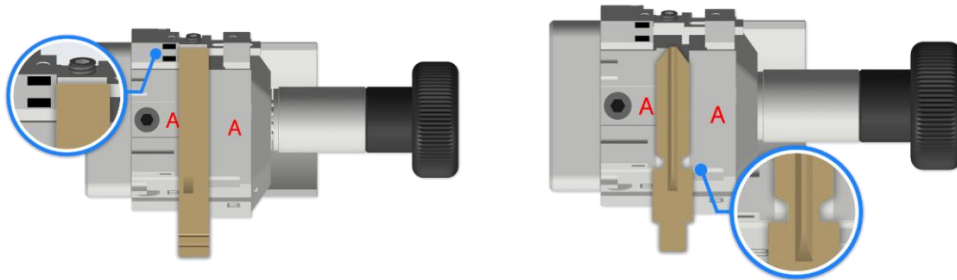


- 1) Rotate the knob clockwise on the clamp until the limit marker comes out from the right of the clamp.
- 2) Rotate the clamp to the suitable side.

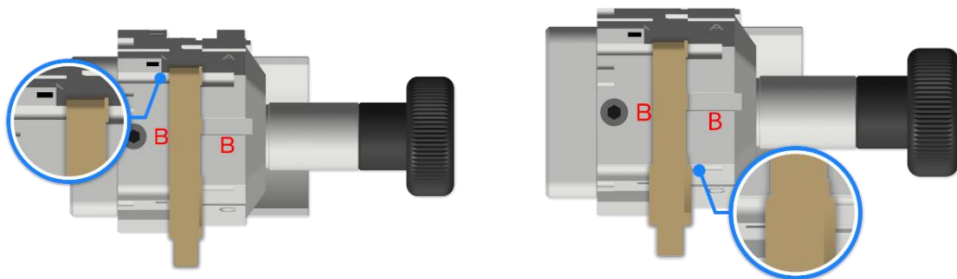
Introduction To the Clamp

There are 5 sides for the clamp. Each side could be used for different key or key blanks. The pictures below show how you can fix the key into the clamp - different keys require different alignment methods.

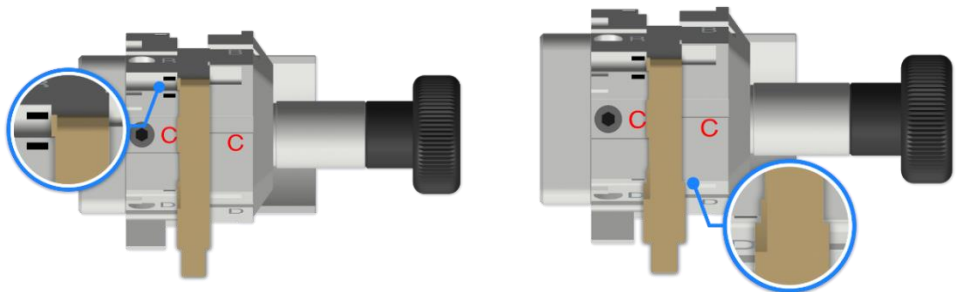
1) Side A: Used for side milling keys & face milling keys.



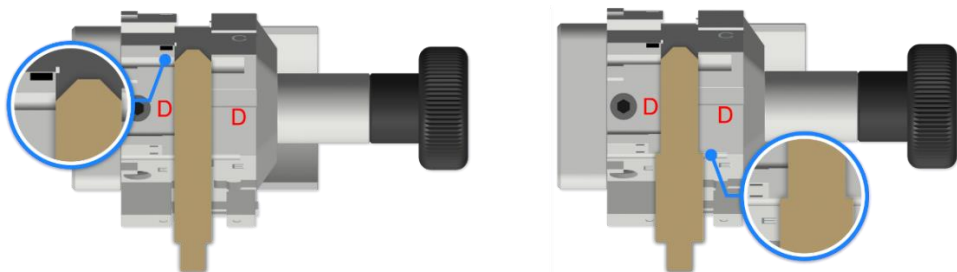
2) Side B: Used for inner milling keys.



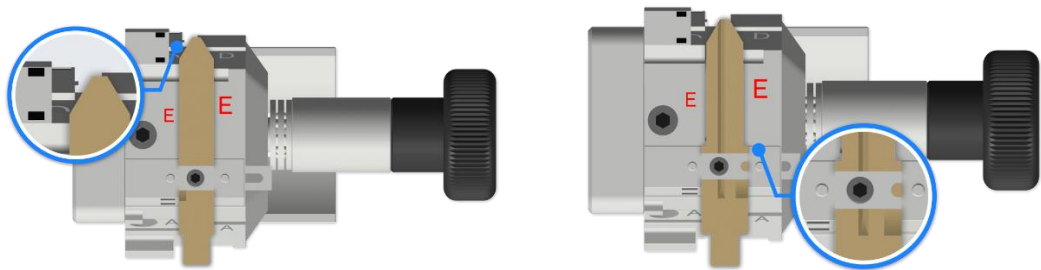
3) Side C: Used for inner milling keys.



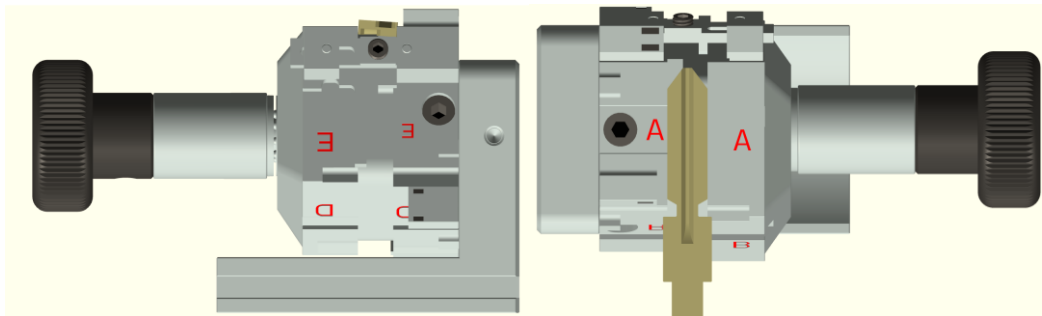
4) Side D: Used for inner milling keys & side milling keys.



5) Side E: Used for side milling keys & face milling keys.

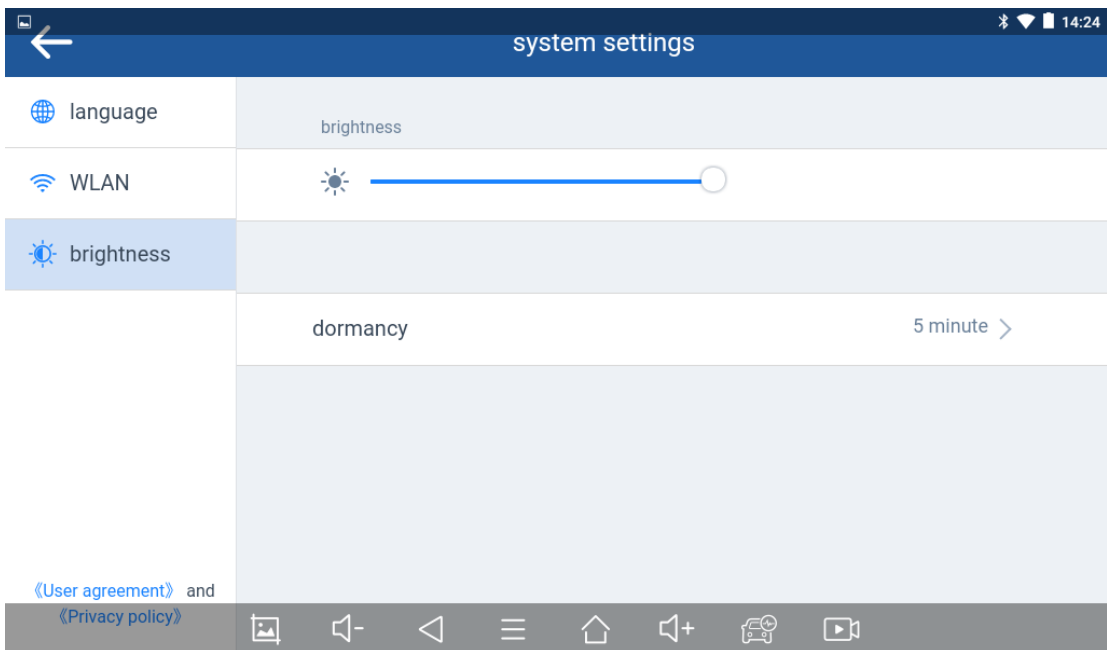


① Please make sure that the key blank is leveled to the surface of the key blank and the head (or shoulder) of the key is basically aligned with the marker. The pictures below are some examples of the wrong placements.



3 SETTINGS

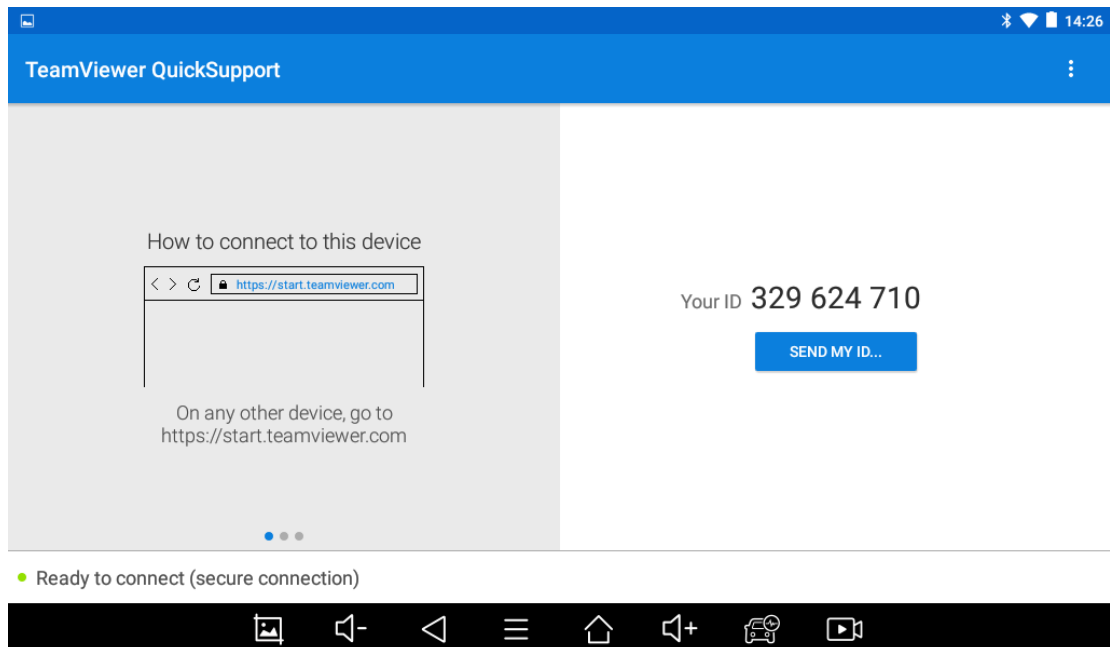
Here you can change the universal settings like the brightness of the screen, the time that the screen shuts down automatically, the network status, and language settings.



4 REMOTE SUPPORT

When you meet any issues, you can contact Xtool aftersales services that can help you to deal with the problem. Sometimes our engineers will ask you for remote control. To do that, please connect your machine to the Internet, find “Teamviewer Quicksupport” on the main screen and click it. The screen will show an ID, please tell engineers this ID to let them remote control this device.

④ Sometimes your device will turn sleeping when staying for too long and the engineers can not connect to it. When this happened, restart the Teamviewer and it normally works. However when this happened constantly, please check your network.



5 MAINTENANCE INSTRUCTIONS

1. To keep the precision of this key cutting machine, please make sure that you clean it often and clear away the debris inside the machining area.
2. Do not use oil-based products to clean the components of the machine, or it might damage or corrode the parts in it.
3. Please check the screws and nuts that fastening the key cutting machine often and make sure that they are not loosening.
4. Please replace and adjust the parts that is worn or damaged in time.
5. We suggest checking the performance and status of the machine thoroughly every month.