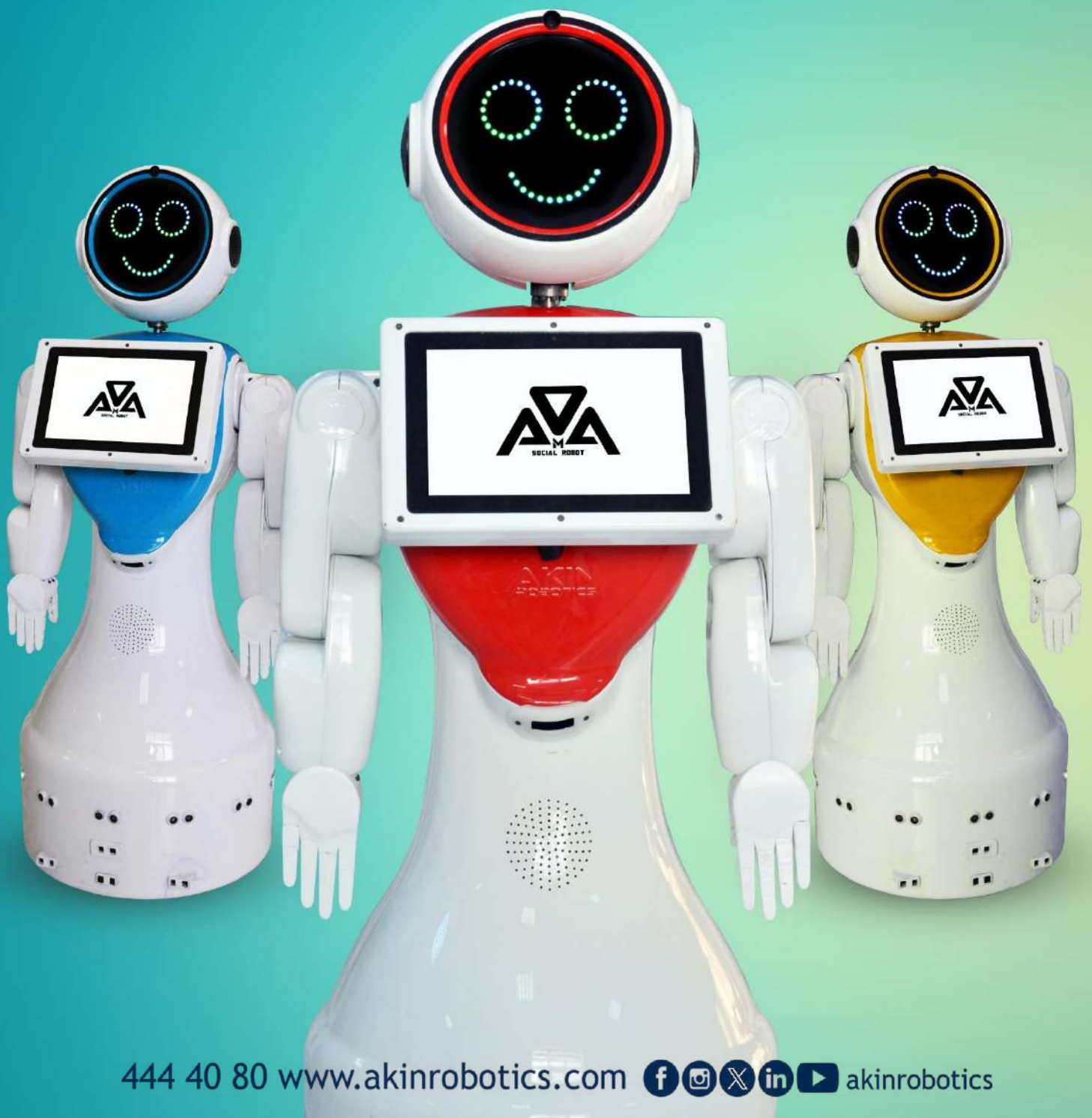


# SOCIAL ROBOT MINI ADA

## MANUAL USER GUIDE



## GENERAL INFORMATION

### MINI ADA SOCIAL ROBOT

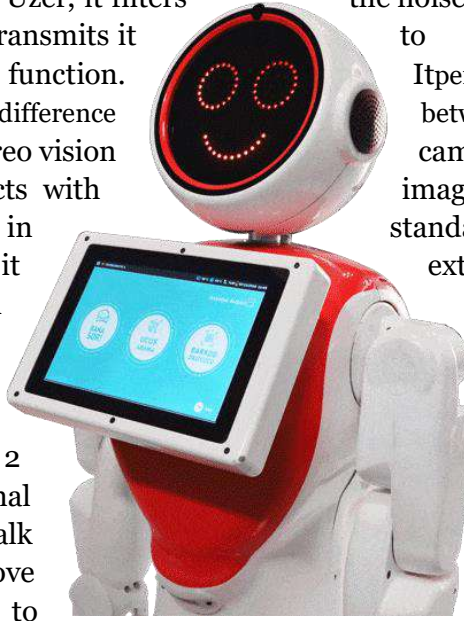
**MANUFACTURER** : Akin Software Computer Imp. Ihr. Ltd. Sti/AKINROBOTICS  
**FACTORY COMPANY**

**CONTACT** : 444 40 80

**ADDRESS** : Başak Mah. Konya Eregli Cad. No:116 Karatay/Konya/ TURKEY

Please read the instruction manual carefully before using the Mini ADA Social Robot and ask for support at <https://www.akinrobotics.com/istek-oneri-formu> if you deem it necessary. Complete the process steps by following the installation and service instructions one-on-one.

Mini ADA Social Robot is a humanoid social robot that can move at 50 m/min with a height of 123 cm and weighs 45 kg and can speak with 4 different language options. Thanks to the 6 versatile microphones located on the Uzer, it filters the noise around, detects the direction the sound is coming from, transmits it to artificial intelligence and performs the hearing function. It performs vision and human recognition by calculating the difference between it and the object by detecting depth through stereo vision cameras located at the kfa. Recognizes faces and objects with image processing technology. It can read words written in standard fonts above a certain size. With 2 stereo microphones; it extracts external questions and orders in artificial intelligence by translating them into "speech to text" and transmits the information obtained to the user via voice in four different languages. Thanks to the 2 wheel 'outrunner' motors for mechanisms consisting of 2 movements, it can rotate at 50m/min. With its 3-up, down, sideways and making directional the impact and fall sensors, it can move backwards flexibly. Thanks to MINI ADA detects obstacles around it and directs its movement. It provides autonomous navigation thanks to the 2 lidars on it. Through the 10.1 inch touchscreen integrated into its body, it can interact with people, present images such as articles, pictures, photos, and show videos. Provides easy access to product information, directions, and payment information.



**This guide is tailored to the current version and provide the latest version information and all details about the use of the Mini ADA Robot**

<https://www.akinrobotics.com/robot-e-kilavuz-kategori/on-ekran-ve-kurulum-bilgileri-->

2-6



you can reach it at.

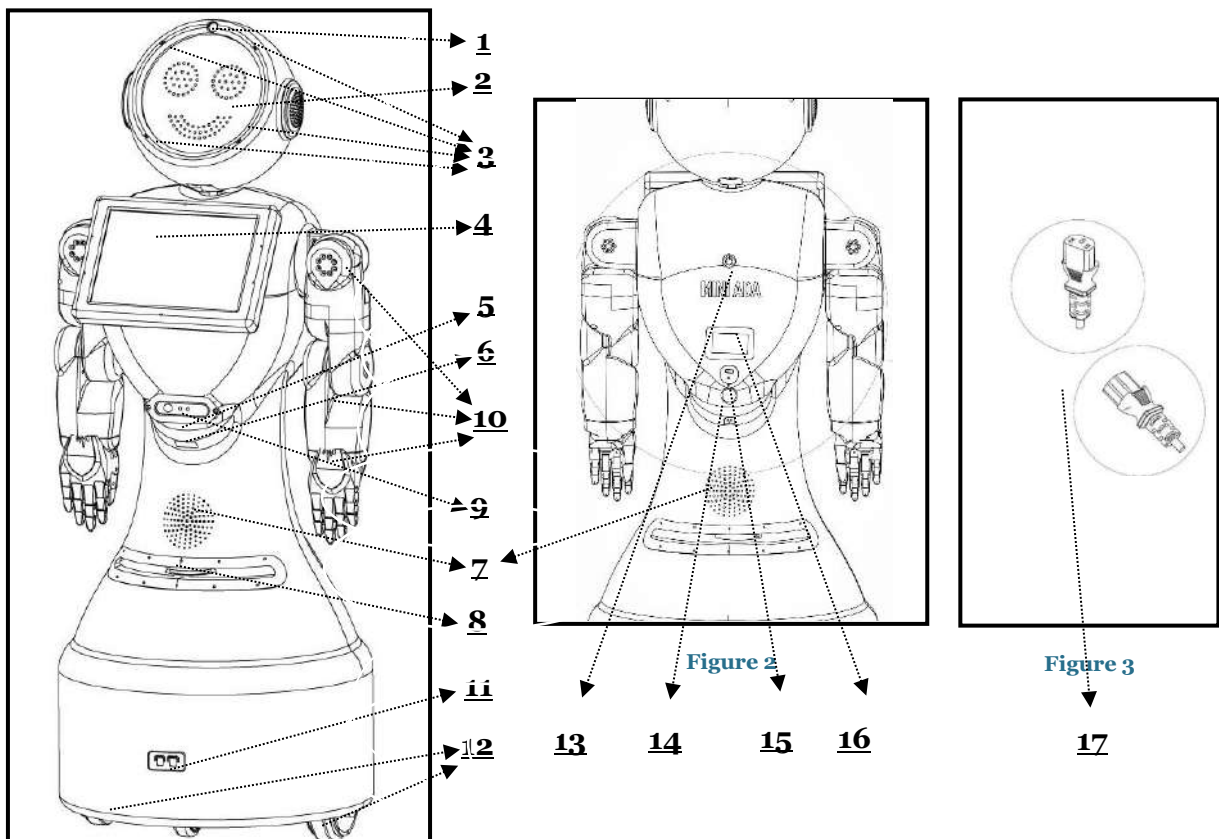


Figure 1















Figure 2

Figure 3

## MINI ADA SOCIAL ROBOT AND APPARATUS

1. **2D CAMERA** : It is the camera that provides the robot with a 160° viewing angle.
2. **LED FACE DISPLAY** : It is 5 different color options and moving face indicator.
3. **MICROPHONE** : With 4 separate microphones, it is ensured that the robot can detect sounds coming from the environment.
4. **TOUCH SCREEN** : It is the tool by which the desired interface is added to the robot and interaction is provided.
5. **SPEAKER** : It is the part where the sound output of the robot is provided.
6. **SCANNER** : Barchaeologist is the area that can be read.
7. **VENTILATION** : It is the area where the heat circulation of the robot is provided.
8. **LIDAR** : It is a motion and position detection sensor.
9. **3D STEREO VISION CAMERA** : It is a camera that provides 3D scanning and viewing angle.
10. **ARM STRUCTURE** : Has 3 joint co-structure
11. **SENSORS** : Multiplication is the area where the fall sensors are located.
12. **WALKING MECHANICS** : 2 wheels is a walking area consisting of a drunken mechanism.
13. **ON/OFF** : On/ Off key.
14. **CHARGING POWER INPUT** : The power cord is the port.
15. **SARJ DASHBOARD** : The area that shows the percentage of the robot's charge
16. **USB AUX** : The port of the additional equipment of the robot.
17. **POWER CORD** : 3x2.5 power cable.

## TECHNICAL FEATURES

	WEIGHT	45 KG
	SIZE	123 CM
	CHARGING TENSION	220 V- 50 Hz
	WORKING INTERVAL	5°C ~ 45°C
	WORKING HUMIDITY RANGE	%20-%70
	POWER	800 W
	BATTERY	ION (LI-ION)
	LANGUAGE OPTIONS	ENGLISH-ENGLISH-RUSSIAN-ARABIC
	ACTIVE WORKING TIME	8 CURRENT
	TIME TO BECOME A SARJ	4 CURRENT
	NUMBER OF ENGINES	2 BLDC MOTOR/8 ACTUATOR ACTUATOR
	NUMBER OF SENSORS	58 PCS
	INTERFACE SOFTWARE	AR-GUI/AR-DISEGNER
	SOFTWARE	AR-CONTROL/AR-CORE/ROBOLIZA



## PACKAGE OPENING AND ACTIVATION

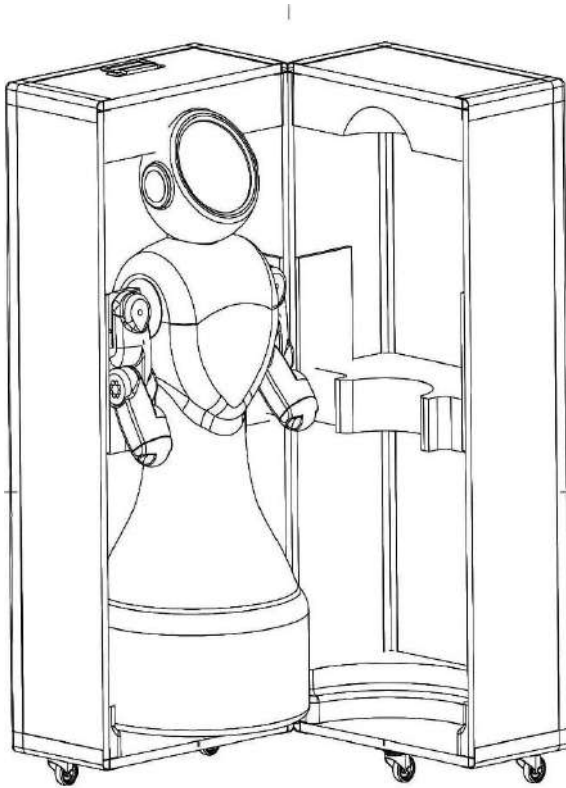


Figure 4

1. MINI ADA Social Robot must be carried vertically with its original chest. Product weight and central balance are ensured by the original crate and the protection sponges inside. During the relocation to different locations, it must be placed in the chest and carried in accordance with the instructions given.

2. After the delivery of the MINI ADA Social Robot, the chest lock is unlocked and held by the chest and left arm of the robot and pushed forward to remove it from the protection sponges. With the help of the ramp, the wheels continue to be held in the chest and left arm until they fit fully on the floor.

**WARNING:** The robot weighs 45 kg. Instructions should be followed to prevent falls and slips by experiencing balance problems when removing from the chest. When the robot presses the floor exactly, it is held on both shoulders and separated from the chest on a flat ground.

3. Press and hold for 3 seconds to ON/OFF drop for the entire period. Firstly the leds on the face will turn on, then on the screen interface software will be activated. Approx. 1 min wait through these operations.
4. Mini ADA Social Robot must be ensured to be adequately charged before it can be operated. It can be tracked via the robot's charging indicator. To charge the robot, plugged into the charging power input, the charging power cord is plugged in. The other power end must be plugged into the 220 volt mains outlet in accordance with local standards. The total charging time is about 4 hours.

## USE OF THE ROBOT

1. Remove and open the MINI ADA Social Robot from the carrying crate in accordance with the instructions.  
(See the link for detailed description.)

<https://www.akinrobotics.com/robot-e-kilavuz-kategori/on-ekran-ve-kurulum-bilgileri--2-6>



2. Install your AR-GUI and AR-DESIGNER programs on your computer in order to start programming steps.
3. Create the programming steps as follows.  
(See the link for detailed description.)

<https://www.akinrobotics.com/robot-e-kilavuz-kategori/on-ekran-ve-kurulum-bilgileri--2-6>



4. Connect to MINI ADA Social Robot via AR-GUI. Program all the movements and behaviors you want to your robot by following the instructions on this screen  
(See the link for detailed description.)

<https://www.akinrobotics.com/robot-e-kilavuz-kategori/ar-gui--2-7>



5. You can follow the instructions by using the File/ Create New Design tabs in the section on the front screen of the robot for the designs you will create for use on the MINI ADA Social Robot screen.  
(See the link for detailed description.)

<https://www.akinrobotics.com/robot-e-kilavuz-kategori/ar-designer--2-8>



## WARNINGS AND PRECAUTIONS

It is mandatory to follow the following instructions before and during use of the MINI ADA Social Robot.

1. Read the instruction manual before starting the use of the robot. Follow all instructions.
2. Make sure that the ground on which the robot will move is flat, dry and smooth. Do not operate or release the robot in sloping areas, ramps, wet floors and rough areas of the surface. Otherwise, tipping may occur, endangering product safety and the safety of those around it.
3. The robot weighs about 50 kg and once activated, it interacts with its surroundings. It can move back and forth, raise its arms, lower them, move its head. Even if sensors that recognize the obstacles around the robot prevent the robot from damaging it, the robot should not be approached more than 1 (one) meter. Otherwise, it may cause undesirable injuries.
4. The robot is equipped with a completely electronic design and there should be absolutely no water contact with the robot. Otherwise, heating, deterioration, flammable effects may occur in the working parts.
5. Never throw a foreign object into the robot.
6. The robot should be closed during cleaning and cleaning should be done with the help of a dry, soft cloth. Chemicals containing alcohol and ammonia should never be used.
7. The robot must be operated and maintained in the temperature and temperature range included in the specifications. Otherwise, working parts may be damaged.
8. The robot is designed for indoor use. Sun temperature, rain, snow, humidity should not be exposed.
9. The robot should never be operated or moved during charging.
10. When a heating problem is observed above the working temperature of the robot during operation, the robot should be closed immediately and help should be obtained by calling technical support.
11. No clothing should be made on the robot. Fan gaps on the robot should never be closed. Otherwise, fire danger may occur due to high heat, the robot may become inoperable.
12. Do not use the worn and damaged power cord
13. If the lithium-ion battery inside the robot is damaged and leaking, never interfere and call technical support for help.



## WARNING SIGNS



Electrical Hazard



Read the instruction manual before starting use.



Use outside the authorized operator is prohibited.



Floresans and lithium-ion battery are in the hazardous waste class and must be disposed of according to the relevant legislation.



When it comes into contact with water, it can be taken.



Do not lift heavy loads.

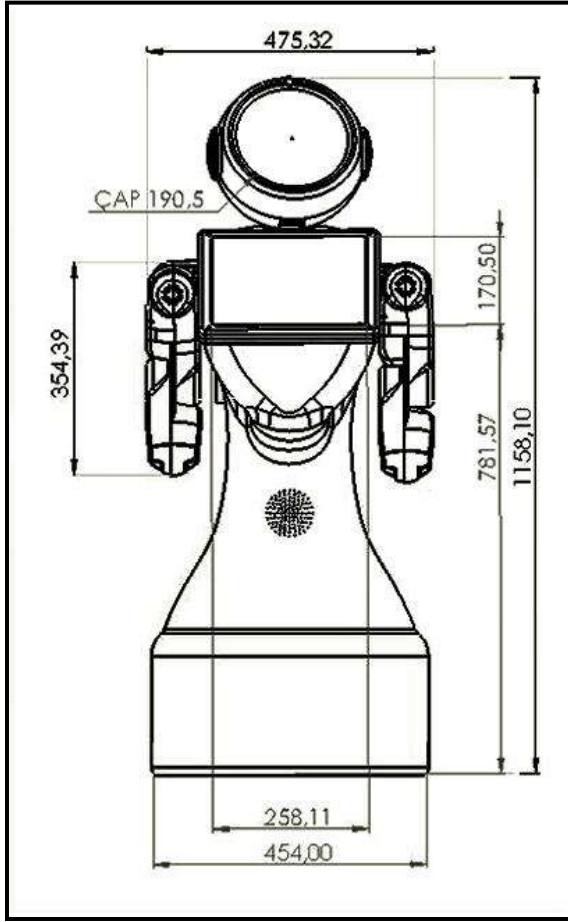


Figure 6

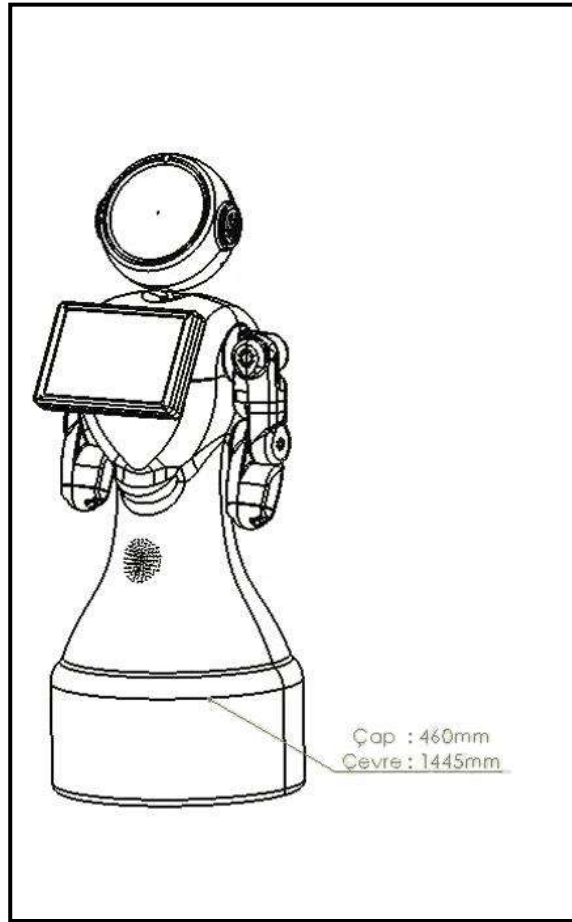


Figure 5

- MINI ADA Social Robot sizes are as given in Figure-5 and Figure -6.
- The robot's carrying crate dimensions are 55cm x 57cm x 127cm, as given in Figure 4.
- The robot must be carried upright and fixed to the transport area.
- The robot is suitable for land transport, air transport, sea transportation and other transportation, upright, well packaged in the transport crate.
- The robot is suitable for transportation and storage in a temperature range of 5 °C to 45 °C and in a relative humidity environment of 20%-70%.

## MAINTENANCE-REPAIR-CLEANING

- ✓ Do not interfere with technical problems that may occur in the ADA Social Robot and call technical support for assistance.
- ✓ Never interfere if the lithium-ion battery inside the robot is damaged and leaking, and call technical support for assistance.
- ✓ The robot should be closed during its cleaning and its cleaning should be carried out with the help of a dry, soft cloth. Chemicals containing alcohol and ammonia should never be used.

## WARRANTY TERMS

1. The services to be provided during the warranty period are also included in the sales contract and the warranty document is considered as the basis of the sales contract.
2. Warranty Certificate must be kept by the customer for the duration of the warranty. If the document is lost, a second document is not exported. Repairs and replacements of robots and apparatus in case of loss will be made for a fee
3. Warranty terms start from the date of delivery of robots and apparatus and are guaranteed for 1 year against production defects.
4. Robots and apparatus are handed to the customer in operation. The necessary trainings are given to the relevant personnel by commissioning on site. The first installation and the first training are provided free of charge.
5. The repair of the robots and apparatus covered by the warranty is carried out by sending it to the factory with the transport company contracted by our company. Transportation and accommodation expenses of the service personnel in on-site services belong to the customer. The working time spent on the road is collected in advance by paying the service fee.
6. In case of failure of robots and apparatus that are in the warranty period, it is determined in our company whether the fault is caused by customer or manufacturer error and it is notified with the report to be prepared by our company.
7. In case of manufacturer-induced error detection of robots and apparatus that continues within the scope of the warranty period, repairs are made provided that all costs belong to the manufacturer. If the error detection belongs to the customer, all costs belong to the customer.
8. Failures arising from the use of robots and apparatus contrary to the points contained in the user manual are not covered by the warranty.
9. Damage caused by mains voltage/faulty electrical installation is not covered by the warranty.