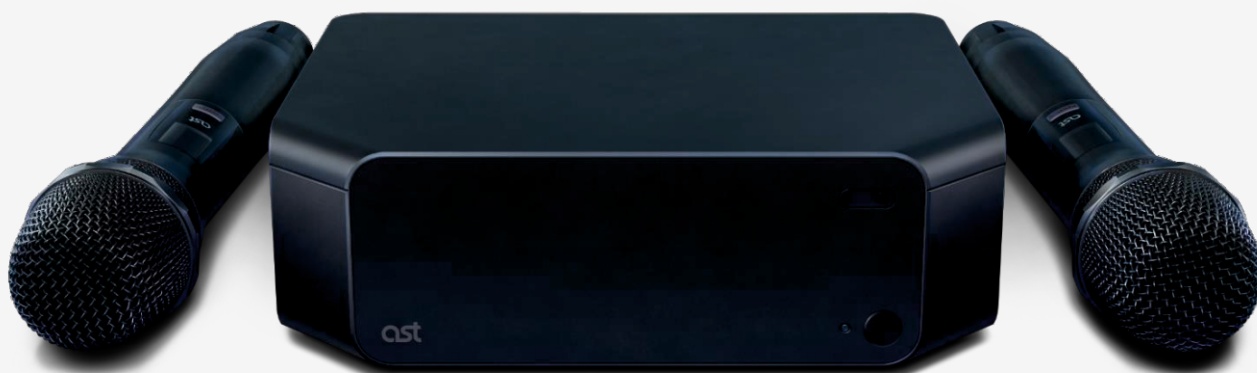# KARAOKE – SYSTEM AST ZOOM

Quick Guide

(Edition of September 20, 2024)

Table of Contents

Safety Instructions

Before using the device, carefully read these safety instructions.

⚠️ WARNING!

Ignoring this warning may result in severe injury, accidents, or even death.

⚠️ CAUTION!

Ignoring this notice may result in minor injuries or damage to the device.

Precautions for Device Installation

⚠️ WARNING!

- Keep the device away from heat sources such as electric heaters. Failure to comply may cause electric shock, fire, malfunction, or deformation of the device.

- Plastic packaging can cause suffocation. Keep it out of reach of children.

- Do not place heavy objects on the device or sit on it. If the device malfunctions or is damaged from a fall, it may cause harm to you.
- Do not leave children unattended near the device.
- Avoid leaving cables in walkways. Tripping over them may lead to electric shock, fire, injuries, or damage to the device.
- The device should be installed in a clean and dry location. Dust and moisture may cause electric shock, fire, or device damage.
- If unusual noises, smoke, or odors occur, disconnect the power cord immediately and contact a service center. Continuing to use a faulty device may result in electric shock or fire.

- If the device is dropped or its casing is damaged, turn it off and disconnect the power cord. Continuing to use a damaged device may result in electric shock or fire. Contact a service center.

- Avoid dropping objects on the device or exposing it to impacts. This could harm you or lead to device malfunction.
- Do not drop the device. Dropping it may cause damage or malfunction.

⚠️ CAUTION!

- Ensure the device's ventilation openings are not blocked; otherwise, it may overheat internally, leading to deformation or fire.
- To prevent the device from falling, install it on flat and stable surfaces. Falling devices may cause injuries or malfunctions.
- Protect the device from direct sunlight, which may cause damage.
- Installing the device in unsuitable conditions may significantly reduce its lifespan and appearance. Consult a qualified specialist before installation, especially if the location involves excessive dust, oil mist, chemical substances, extreme temperatures, high humidity, or prolonged operation. Failure to meet these requirements will void the warranty.

- Do not install the device in poorly ventilated areas, such as bookshelves, niches, cushions, or carpets, nor outdoors.
- Do not install the device near heat sources, such as lighting equipment.

Precautions for Power Usage

⚠️ WARNING!

- If water or any foreign substances enter the device, immediately unplug the power cord and contact a service center. Excessive moisture and dust can cause electric shock or fire.

- Do not touch the power plug or cable with wet hands. If the plug pins are wet or dusty, dry them and wipe off the dust before use. Failure to do so may result in fire or electric shock.

- Ensure the power plug is firmly inserted into the electrical outlet. A loose connection may cause fire or electric shock.
- When unplugging the power cord, pull the plug itself, not the cord. Avoid bending the power cord excessively or applying excessive force. A damaged cable may cause electric shock or fire.

- Avoid stepping on or placing heavy objects (electronics, clothing, etc.) on the power cord. Be careful not to damage the cord with sharp objects. Damaged power cords may lead to fire or electric shock.

- Do not disassemble, repair, or modify the power cord. This could result in fire or electric shock.

- Use only the rated voltage. Failure to do so may damage the device or cause electric shock.

- If you do not plan to use the device for an extended period, unplug the power cord from the outlet.

- Firmly insert the power cord plug into the device's socket. A loose plug may cause device damage, electric shock, or fire.

⚠️ CAUTION!

- Clean the electrical outlet and the power plug pins of dust and debris. Contamination may lead to fire.

- Do not unplug the power cord while the device is powered on. A sudden voltage change may damage the device.
- Use only the power cable provided with the device. For any issues with the power cord, contact the manufacturer or a service center for replacement.

Safety Measures for Moving the Device

⚠️ **WARNING!**

- Ensure the device is turned off before moving it. Failure to do so may result in device damage or electric shock.
- Disconnect all cables from the device before moving it. Failure to do so may result in device damage or electric shock.

⚠️ **CAUTION!**

- Avoid shaking or impacting the device during transportation, as it may cause damage.

- Retain the product packaging, as it may be useful for future transportation.

- Preferably, transport the device in its original box or packaging material.

- Disconnect the power cord and all other cables before moving the device.

Safety Measures for Device Operation

⚠️ **WARNING!**

- Do not attempt to disassemble, repair, or modify the device yourself. This could lead to electric shock or fire. Contact a service center for inspection or repair.

- If the device is not in use for an extended period, unplug the power cord from the outlet.
- Keep the device away from water to avoid electric shock or fire.
- Do not expose the device to high temperatures or humidity.

⚠️ **CAUTION!**

- Do not place or store flammable substances near the device. Mishandling flammable materials may result in an explosion or fire.
- When cleaning the device, unplug the power cord and use a soft cloth to avoid scratching the surface. Do not use wet cloths, sprayed water, or other liquids. Failure to follow this rule may cause electric shock. Avoid using chemicals such as gasoline, solvents, or alcohol.

- Keep the device clean.
- Batteries must not be exposed to heat from direct sunlight, fire, or heaters.

- Ensure the device is not exposed to dripping or splashing liquids. Do not place liquid-filled items (e.g., vases, cups) on or above the device (e.g., on shelves).

- To reduce energy consumption, switch the device to standby mode when not in use. Turn it off completely if it will not be used for an extended period.
- Do not mix new and old batteries, as this may damage the device. To replace batteries, open the battery compartment cover, insert new batteries according to the markings, and close the cover. To remove batteries, follow the same steps in reverse order.

Licenses

Supported licenses may vary depending on the model. For additional information about licenses, you can contact us via email at info@art-system.ru.

Software Notice

The software for AST-branded devices is developed and supplied by SELECT (an official partner of Art System). For any inquiries regarding software updates, you can reach out via email at info@astupdate.com.

Manufacturer Notes

- Device functions are subject to change without prior notice.
- The package contents may vary depending on the model.
- Specifications or the content of this manual may change without prior notice due to device feature updates.
- Use only certified cables with the HDMI logo. Non-certified HDMI cables may result in incorrect video display or connection errors.

⚠ CAUTION!

- To ensure the safety and longevity of the device, do not use parts that are not approved by the manufacturer.
- Any damages or losses caused by using non-approved parts are not covered under warranty.

Connecting External Devices

Before making any connections, ensure that all devices involved are powered off!

Connect cables from the external devices to the AST device.
Once all cables are securely connected, plug the devices into the power outlet.

Never power on the AST device or the external devices before completing all cable connections. Doing so may result in damage to the AST device or the connected devices.

Ensure that the electrical wiring of the location where the device will be used complies with the construction and safety codes of the country of use.

Introduction to AST Zoom

The AST Zoom is a professional karaoke system designed primarily for playing karaoke song tracks and audio files. Supported audio formats: MP3, WAV, MIDI. Video playback capabilities:
Supports Full HD (1080p) video formats, including MPEG2, MPEG4, h.264, AVC, DivX, and xvid.
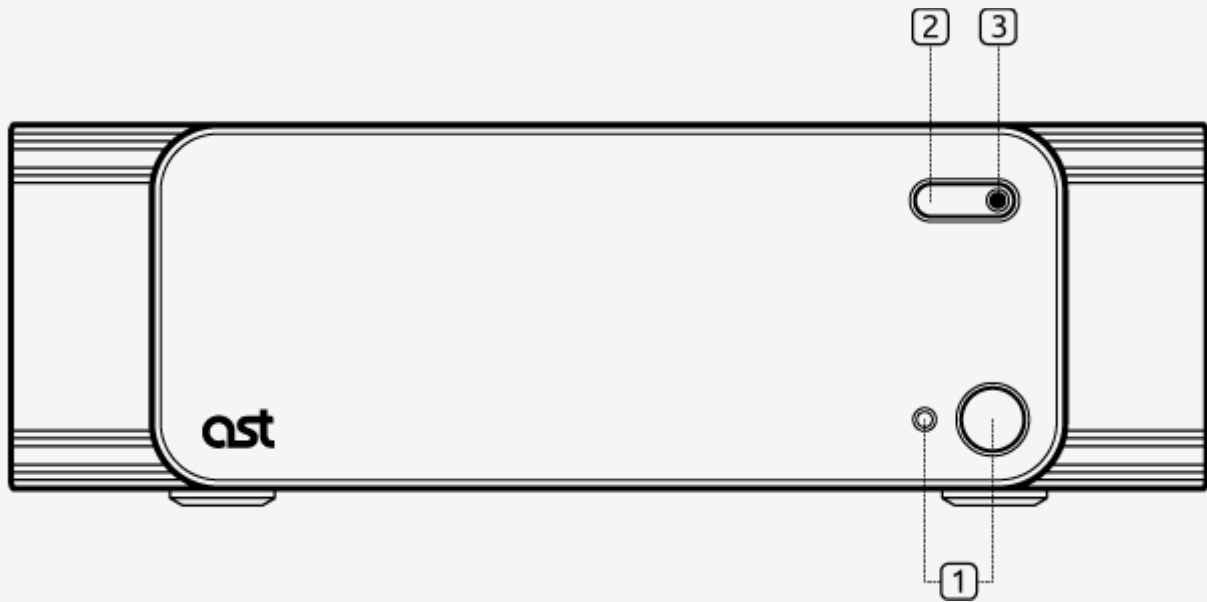Supported video codecs: h.264/AVC, h.265/HEVC

Package Contents

Pic. 1. AST Zoom Package Contents

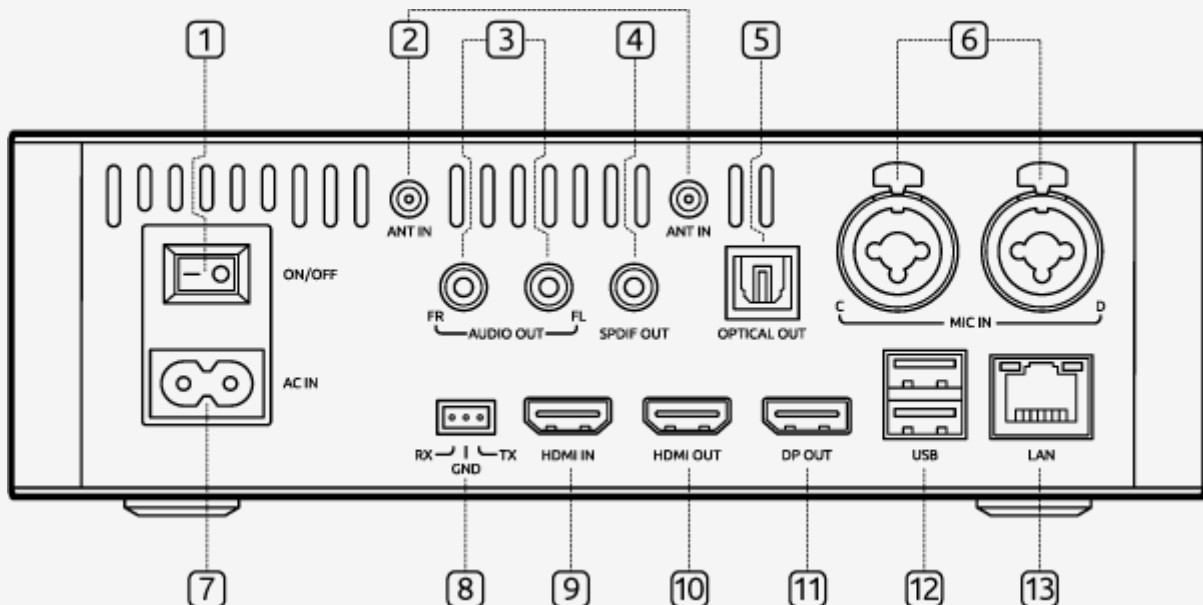The AST Zoom package includes the following items:

- AST Zoom karaoke system
- Two wireless microphones
- Universal IR/Bluetooth remote control
- Microphone antennas (2 units)
- Battery set for microphones and remote control
- RCA-RCA audio cable (1.5 m length)
- HDMI video cable (2 m length)
- Power cable (1.5 m length)
- Packaging box with insert for secure transport and storage

Appearance and Connectors

Pic. 2. Front Panel of AST Zoom

1. Power-saving mode (sleep mode) on/off button and the karaoke system operation indicator.
2. Infrared receiver for the remote control.
3. Video camera.

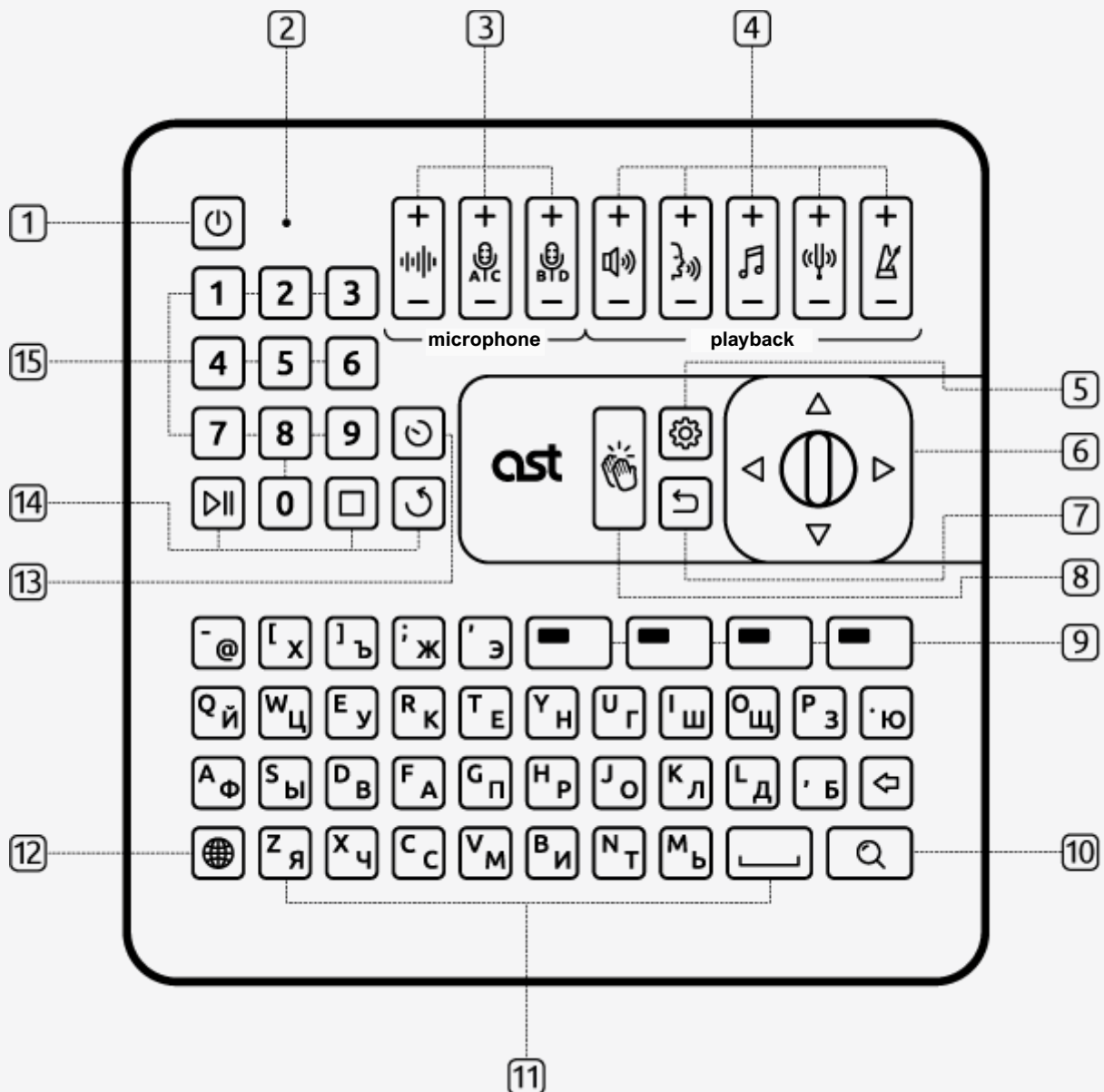The rear panel contains all the main connectors of the karaoke system:

1. Main power switch.
2. Connectors for microphone antenna connections.
3. Connectors for connecting the speaker system.

4. Digital Audio Output (Coaxial).
5. Digital Audio Output (Optical).
6. Microphone Input Connectors.
7. Power Cable Connector.
8. RS-232 Port.
9. HDMI Connector for External Video Signal Input.
10. HDMI Connector for Video Playback Equipment.
11. DisplayPort Connector for Video Playback Equipment.
12. USB Ports (2 units).
13. Network Connector for Local Area Network (LAN) Connection.

Remote Control

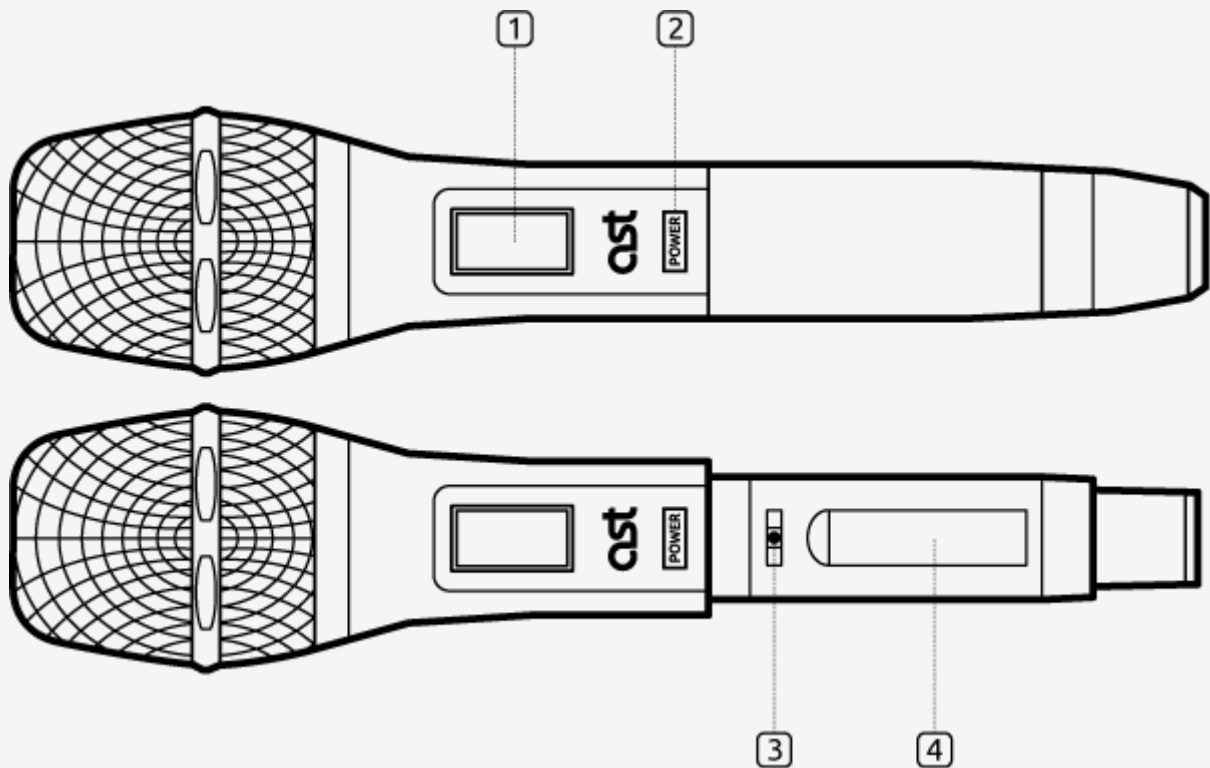The AST Zoom remote control can operate in two modes. To use the infrared mode, direct line of sight must be maintained between the remote and the IR receiver on the front panel of the karaoke system. In Bluetooth mode, maintaining line of sight is not required. The operating range in Bluetooth mode is up to 10 meters.

Pic. 4. Remote Control

1. Button for enabling/disabling the karaoke system's power-saving mode.

2. LED Indicator for Remote Control Operation.
3. Buttons for Controlling Microphone Effects and Volume.
4. Buttons for Controlling Playback Parameters of Backing Tracks.
5. Button for Accessing Karaoke System Settings.
6. Navigation Joystick: The joystick buttons are used for navigating interface elements.
7. Return Button: Used to undo actions or navigate to the previous section.
8. Button for Playing Applause Sound Effect.
9. Block of Color-Coded Functional Buttons.
10. Button for Entering Song Search Mode.
11. Alphanumeric Keyboard: Used for entering search queries, configuration data for the karaoke system, and other actions requiring text input.
12. Language Switch Button.
13. Button for Accessing Reservation Management.
14. Buttons for Controlling Backing Track Playback.
15. Numeric Keypad: Used for entering search queries, configuration data for the karaoke system, and other actions requiring numeric input.
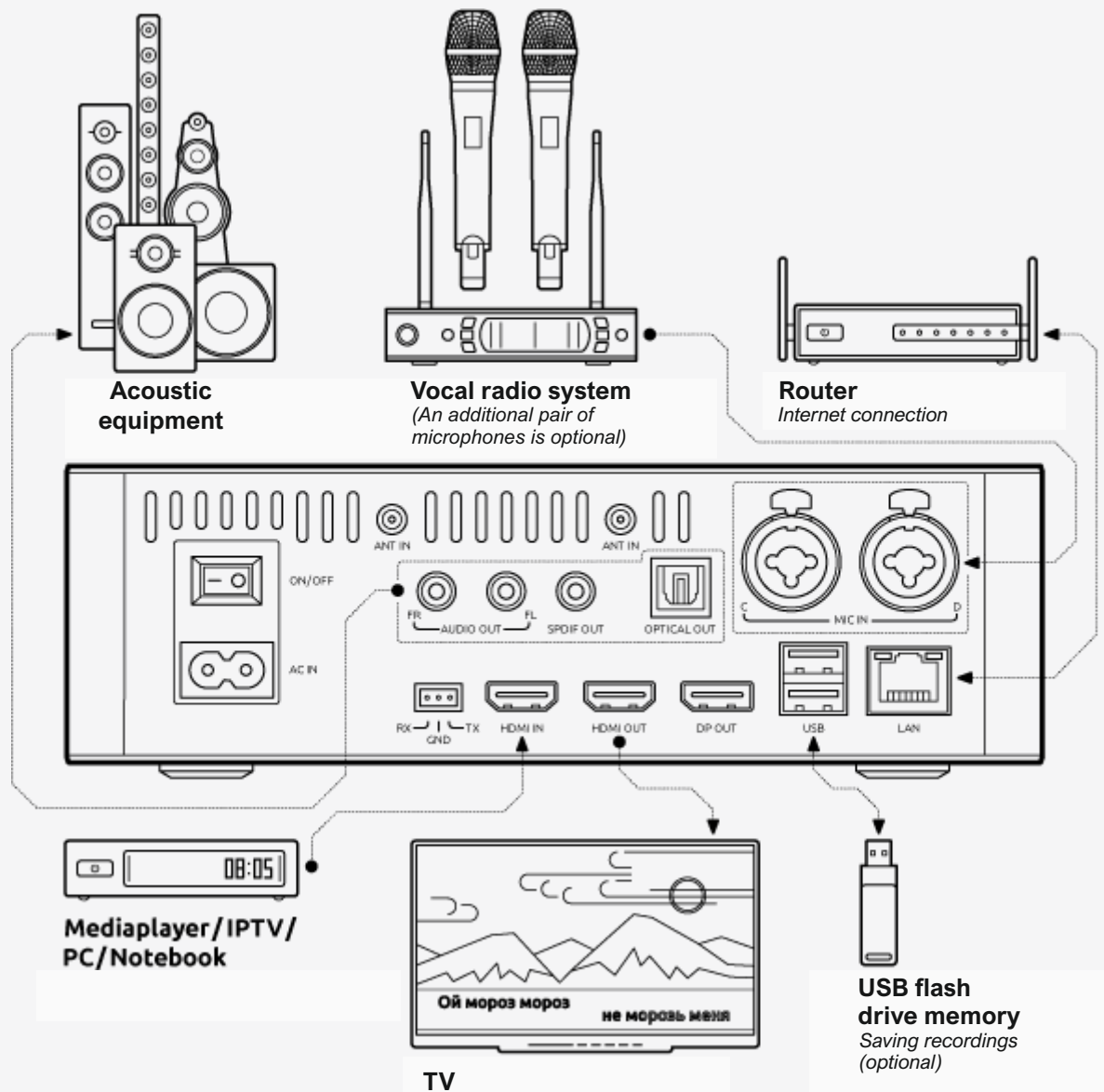

Pic. 5. AST Zoom Microphones

1. Microphone Display.
2. POWER Button: Turns the microphone on/off.
3. SET Button: Selects the operating channel.
4. Battery Compartment.

Connection and Preparation for Use

Before connecting AST Zoom to other devices, carefully review the instructions of the equipment you are trying to connect and ensure that both the karaoke system and the connected equipment are powered off. When connecting audio and video cables, make sure the shape, size, and color of the plug match those of the connector. Do not block the ventilation openings of AST Zoom or the connected equipment to allow for natural air circulation.

Acoustic equipment

Vocal radio system
(An additional pair of microphones is optional)

Router
Internet connection

Mediaplayer/IPTV/ PC/Notebook

Ой мороз мороз   не морозь меня

TV

USB flash drive memory
Saving recordings (optional)
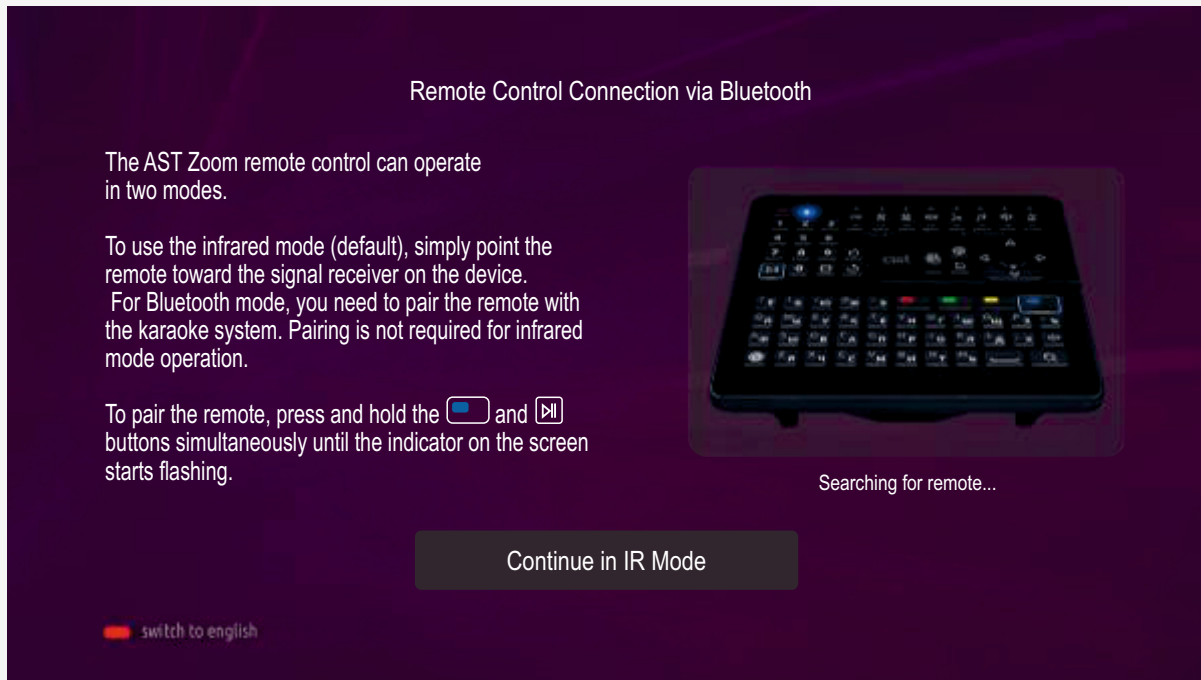
Pic. 6

Powering On

Turn on the main power using the switch on the rear panel of the AST Zoom. Once powered on, the karaoke system will immediately enter operational mode. You can later adjust the AST Zoom settings to boot into sleep mode upon power-up. To switch between sleep mode and operational mode, use the button on the front panel of the system or the button on the remote control.
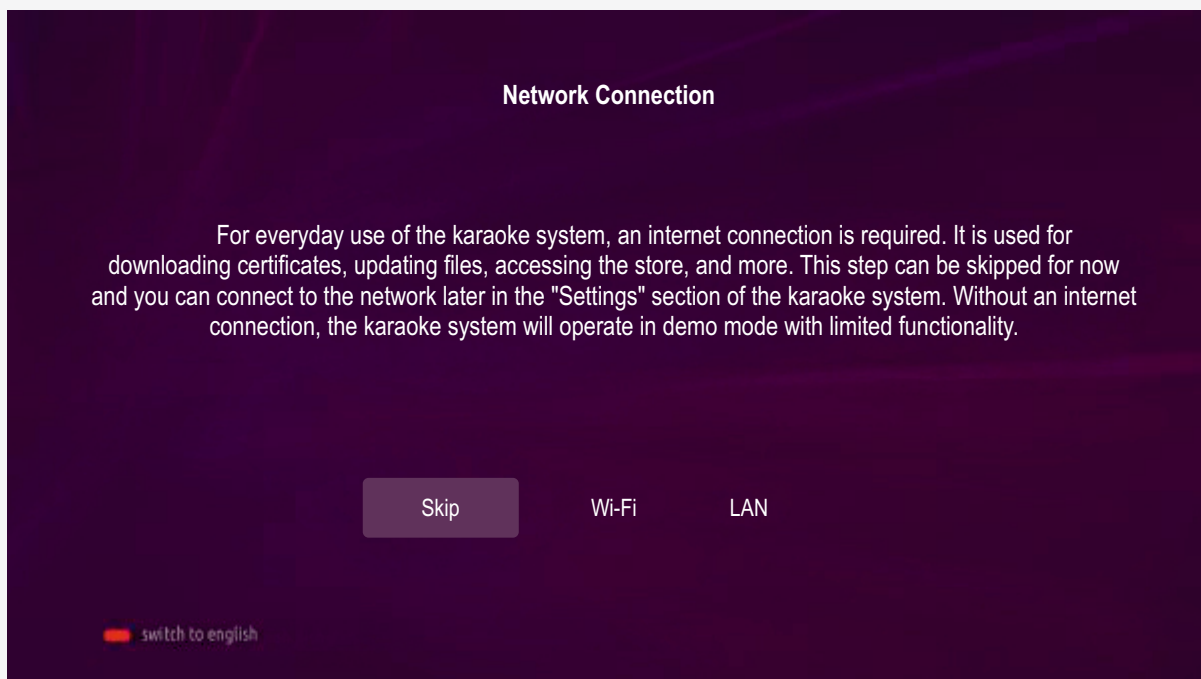
Настройка пульта дистанционного управления

Remote Control Connection via Bluetooth

The AST Zoom remote control can operate in two modes.

To use the infrared mode (default), simply point the remote toward the signal receiver on the device. For Bluetooth mode, you need to pair the remote with the karaoke system. Pairing is not required for infrared mode operation.

To pair the remote, press and hold the ▭ and ▷ buttons simultaneously until the indicator on the screen starts flashing.

Searching for remote...

Continue in IR Mode

switch to english

Pic. 7

When AST Zoom is powered on for the first time, you will be prompted to configure the Bluetooth connection between the karaoke system and the remote control. Follow the on-screen instructions to initiate the connection. This step can be skipped, in which case the remote control will continue to operate via infrared. Bluetooth pairing can be performed later if needed.

Connecting to the Internet

Network Connection

For everyday use of the karaoke system, an internet connection is required. It is used for downloading certificates, updating files, accessing the store, and more. This step can be skipped for now and you can connect to the network later in the "Settings" section of the karaoke system. Without an internet connection, the karaoke system will operate in demo mode with limited functionality.

Skip   Wi-Fi   LAN

switch to english

Pic. 8

AST Zoom can be connected to the internet either via Wi-Fi or a wired connection. For a wired connection, connect the network cable to the LAN port on the rear panel of the karaoke system.

To start the connection process, select the desired connection method and follow the on-screen instructions.

Microphone Pairing

When multiple AST Zoom systems operate in close proximity, microphone conflicts may arise. This happens because when a microphone is powered on, its signal can be received by all karaoke systems within range. To prevent this, you can pair the microphone with a specific karaoke system by following these steps:

Put the karaoke system into power-saving mode (sleep mode) using the button on the front panel or the remote control.

Unscrew the microphone's battery compartment cover and turn the microphone on.

Press and hold the SET button on the microphone until the channel number on the microphone display begins to change rapidly.

While holding SET, press the POWER button, then release SET. The channel number will stop changing and begin flashing for 10 seconds.

Once the channel number stops flashing, turn the microphone off and then back on, followed by turning on the karaoke system.

During the karaoke system's boot process, the LED on its front panel will blink alternately red and yellow. When this starts, simultaneously press the SET and POWER buttons on the microphone. The channel number on the microphone display will flash for 10 seconds. Once the flashing stops, the pairing process is complete.

To unpair a microphone from a karaoke system, follow these steps:

Put the karaoke system into power-saving mode (sleep mode) using the button on the front panel or the remote control.

Turn off the microphone and unscrew its battery compartment cover.

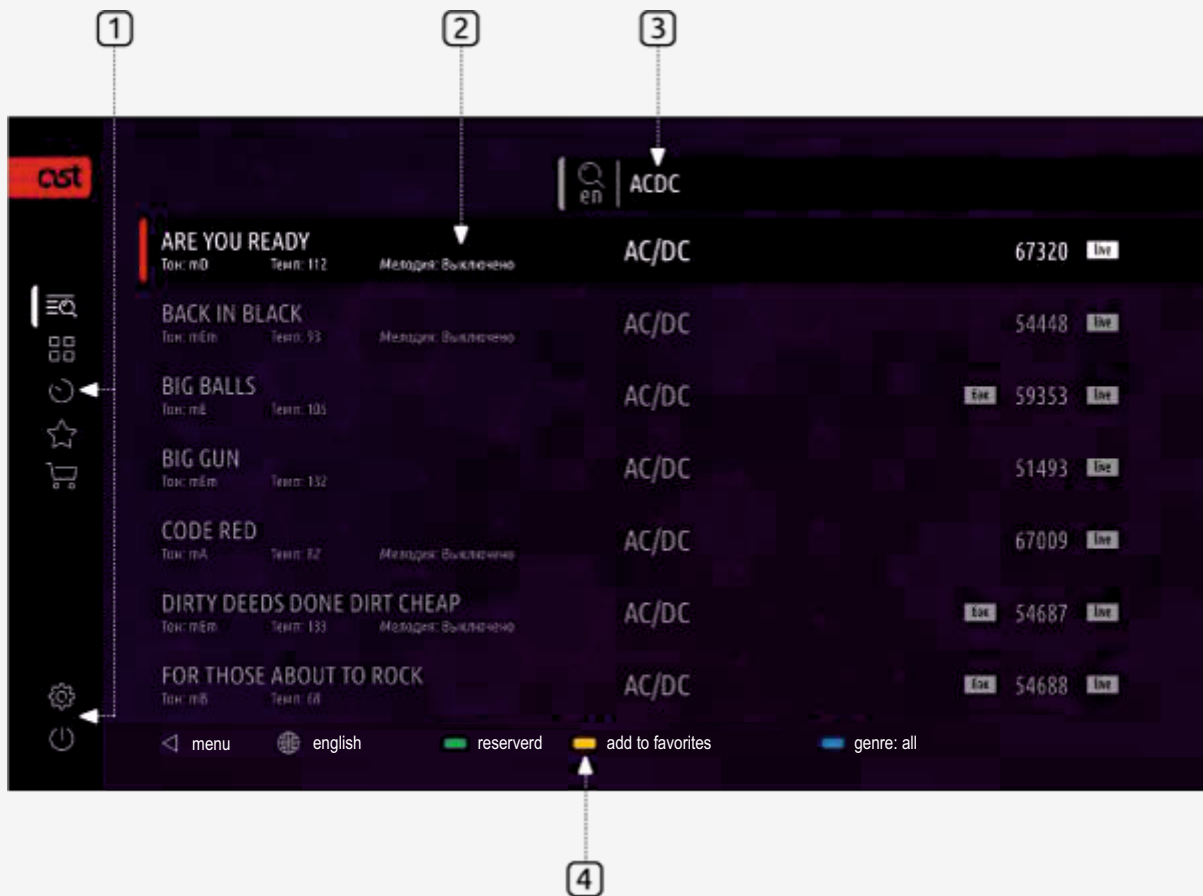Press and hold the SET button on the microphone, then turn it on while holding SET.

Turn the karaoke system on, allowing it to begin booting.

During the system's boot process, the LED on its front panel will blink alternately red and yellow. When this starts, simultaneously press the SET and POWER buttons on the microphone.

The channel number on the microphone display will flash for 10 seconds. Once the flashing stops, the unpairing process is complete.

Graphical Interface of AST Zoom

Pic. 9

1. Main menu of the karaoke system.
2. Workspace.
3. Search bar.
4. Context menu.

Navigation

Use the arrow buttons and joystick wheel on the remote control to navigate between menu items, category cards, rows in song lists, search results, and other interface elements.

Main Menu of the Karaoke System

Some of the most frequently used menu items, such as Search, Reservation, or Settings, are accessible via corresponding buttons on the remote control. Other menu items can be accessed using the navigation joystick. Switching between the menu and the workspace is done using the buttons and joystick wheel.

Workspace

This section of the screen displays key information, such as song lists, search results, and catalog categories (e.g., artist cards, genre breakdowns, newly released tracks). Immediately after the karaoke system starts, the song list is displayed in this area.

Search Bar

On some screens, a search function for the karaoke system's catalog is available. Using the alphanumeric keyboard on the remote control, start typing the first characters of your search query. As you type, the system will suggest a list of songs matching the query. You can switch the input language using ⊕ button on the keyboard.

Context Menu

The contents of this part of the screen change depending on the context. Typically, it displays navigation tips, control elements, and search filters tied to the color-coded function buttons.

Key Functions

Search

To quickly navigate to the search section, press 🔍 button on the remote control.

Using the alphanumeric keyboard on the remote, start entering the first characters of your search query.
As you type, the karaoke system will suggest a list of songs matching the search query.
You can switch the input language using ⊕ button on the keyboard.

The search is conducted simultaneously by number, song title, artist's name, or song lyrics.
Search results can be filtered by specific song genres.

To start playback, select the desired line from the song list and press ▷❘❘ button or the joystick wheel.

Catalog

This section contains the main categories of the AST Zoom song catalog. Songs are grouped by performers, genres, song languages, and update packages installed on the karaoke system.

To navigate to a category, press the joystick wheel on the remote control. To find a specific song or performer in a category, use the search bar or scroll through the list using the arrow buttons or joystick wheel.

To start playback, select the desired row in the song list and press the button or the joystick wheel.

Reservation

The reservation function, also known as deferred playback, organizes songs into a sequential playback queue. The Reservation section displays the current list of queued songs. To change the order of songs in the queue or remove songs from the list, use the buttons listed in the context menu.

To quickly access the reservation management section, press ↻ button on the remote control.

Favorites

This section displays a list of songs you have previously marked as favorites. You can add frequently performed songs to Favorites for quick playback without searching.

Karaoke Song Playback

Select a desired song from the Catalog or find it using the search function. To start playback, press the button or the joystick wheel.

Before starting and during the playback of a soundtrack, you can adjust the tempo and pitch of the playback, control the volume of the accompaniment and vocal parts, and tweak microphone sound settings. These adjustments can be made using the corresponding buttons on the remote control.

Store

In this section, you can check your account balance, view information about previous purchases, buy update packages and individual songs, and learn about special promotions.

Settings

User

This section contains general karaoke system settings, such as the number of song lines on the screen, text alignment, accompaniment volume, and others. Here, you can also upload and enable the automatic playback of audio files during pauses between karaoke performances and video files to be used as background visuals.

Administrator

This section includes advanced device settings. For example, you can select and configure reverb effects, adjust microphone and system sound using equalizers, and set up parameters for connecting the karaoke system to the Internet.

Content and Software Updates

This section contains everything related to updating the karaoke system. You can check the current status of the system's software, limit the download speed of updates, specify what needs to be downloaded, and more.

Service

This section is intended exclusively for AST specialized service center staff.

Information

A summary of the main parameters of the karaoke system, including the serial number, embedded software version, current IP address, sale date, and other details.

Reset to Default Settings

This option is intended to reset all user settings of the karaoke system to factory defaults. The reset does not affect uploaded files or playback settings for background audio and video. Changes to these settings must be made separately in the User section.

Troubleshooting

If the device malfunctions, it is recommended to review the information in the table below before contacting the service center. The suggested actions may help identify the cause of the issue and prevent it in the future.

Check and, if necessary, install the latest version of the device software (firmware).

ISSUE	SOLUTION
Device does not turn on	Ensure the power cable is securely plugged into both the power outlet and the device's power port. Check for power in the outlet.
No image or distorted image	Verify that the monitor or TV is properly connected to the device. Recommended HDMI cable length is 3 meters. Check the aspect ratio setting on the TV.
No sound or distorted sound	Ensure the device is correctly connected to the audio system.
Remote control does not work	Confirm the LED on the remote lights up when buttons are pressed. If not, check battery polarity (+ and -) or replace the batteries. If the LED lights red (IR mode), point the remote directly at the receiver within 7 meters and clear any obstructions. For a blue LED (Bluetooth mode), verify pairing with the karaoke system.
Microphone does not turn on or has no/poor sound	Check the battery polarity (+ and -) or replace them if drained. Ensure the microphone is used within 6 meters of the device.
Device does not respond to button presses	Restart the device by turning off the power switch on the rear panel. Wait at least 10 seconds before turning it back on. Operation might have been interrupted by static electricity, lightning, or other external factors.
Symbols on TV screen do not appear fully	Ensure the correct screen type is selected according to the TV's user manual.
Device fails to load	Disconnect the device from the power source and reconnect after 10 seconds. Allow the device to dry for 1-2 hours at room temperature if condensation has formed inside due to temperature changes.
Incomplete soundtrack playback	The soundtrack is in demo mode due to a missing or outdated certificate. Connect the karaoke system to the internet to update the certificate.