

# DC SERIES COMPACT AMPLIFIER SERIES

DC50 | DC50Z | DC100 | DC200 | DC200Z



## USER MANUAL

**Mikafon®**



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## **IMPORTANT NOTICES**

- Before installing and using the device, please read this manual carefully and keep it for further use.
- This manual is an integral part of the product. It should be given to the new owner in order for them to know the installation, operation and safety instructions.
- Improper installation of the device removes the responsibility of the manufacturer.



## **WARNING**

- To avoid the risk of fire and electric shock, never expose this equipment to rain or moisture!



## **SAFETY PRECAUTIONS**

1. Please read the instructions carefully, as they contain important information.
2. The voltage of the power supply of this device has high values, which creates a risk of electric shock. For this reason, never install, connect or disconnect this product while the power supply is connected.
3. The metal parts of the product are grounded with an electric cable. If the electrical outlet that supplies electricity is not grounded, call a qualified electrician who will ground the product through the terminal.
4. To prevent damage to the cable, make sure the power supply cable is not crushed or broken.
5. To avoid the risk of electric shock, never open the product: there are no user fixable parts inside.
6. Make sure that foreign bodies or liquids do not come in contact with speakers, as this may cause short circuit.
7. Never try to perform repairs which are not mentioned in this manual. Contact the authorized service center or highly qualified personnel if;
  - a. The product is not operating (or abnormally operating),
  - b. Serious damage is done to the power supply cord,
  - c. Foreign bodies or liquids get into the product,
  - d. The product is exposed to heavy impact.
8. Turn off the product, if not used for a long time and disconnect the power supply cord.
9. If the product emits a strange odor or smoke, turn off immediately and disconnect the power supply cord.



## **PRECAUTIONS**

- Do not cover ventilation of the product.
- Do not allow amplifier to operate with an excessive load for a long time.
- Tighten the screws on the speakers firmly to guarantee safe contact.
- Do not use thinner, alcohol or other volatile substances when cleaning



## **CAUTIONS RELATED TO THE USE OF ELECTRICAL LINE**

- When plugging and unplugging the power cord, it should be held firmly to avoid risk.
- In case it won't be used for a long time, the plug of the unit should be unplugged to cut off the electricity.
- To avoid damaging the power cord, do not break, pull or harm the cord with sharp and pointy materials. Use a grounded socket.



## **POSITIONING**

- It should be placed with its sides and back 1 meter away from the wall and should not be placed in the following environments;
- Humid environment
- Under direct sunlight and other strong heat emitters
- Environments without ventilation



## **CONTROL OF THE UNIT**

- Make sure that the power supply is turned off, that the power supply and the other devices and lines connected with this unit are disconnected from the power supply.
- Do not remove this unit. Do not attempt to disassemble and fix this device yourself. Otherwise there may be a risk of electric shock or fire. If you can't solve the problems with the methods outlined later in this manual, you should call a qualified technician or consult our company. Enforcing the system could may electrical shock or fire.



## **CLEANING**

- When this unit needs to be cleaned, use a clean damp cloth etc. to dust. Do not use solvents such as benzene, thinner alcohol, strong volatile substances, bleach or other flammable liquids for cleaning the body of the unit.



## **1. OVERVIEW**

### **a. DC Compact Amplifier Series**

DC Series amplifiers are classified as DC50, DC50Z, DC100, DC200 and DC200Z according to their power and ability to make zone volume control. The DC Series is designed to operate in 100V high impedance as well as 8 $\Omega$  or 4 $\Omega$  low impedance public address and music systems.

The high efficiency SMPS power supply and the internal structure of the amplifiers equipped with Class-D technology offer a compact solution. In this way, while 95% efficiency is achieved, heat loss is also reduced to a minimum. The amplifiers have an emergency contact input. It can broadcast messages from the fire panel or emergency contacts by muting the device through a dry contact. In addition, in the announcements made over the microphone, the VOX feature is activated, allowing the existing broadcast to be interrupted and the microphone announcement to be made. This series, which has high quality standards, not only has a modular structure, but also offers a useful and smart mechanical design. DC Series amplifiers; It appeals to a wide range of areas that need music and announcements to be used in small and medium-sized businesses such as cafes, restaurants and shops.

### **b. Specifications**

- Switch Mode Power Supply
- Class-D Technology
- Emergency Contact Inputs
- Suitable for 100V Installation
- Suitable for 4 $\Omega$  Installation
- VOX Mute Technology
- Compact Internal Structure

## 2. CONTROL, CONNECTOR AND INDICATORS

### 2.1. DC50 | 50W Compact Amplifier

#### a. Front Panel

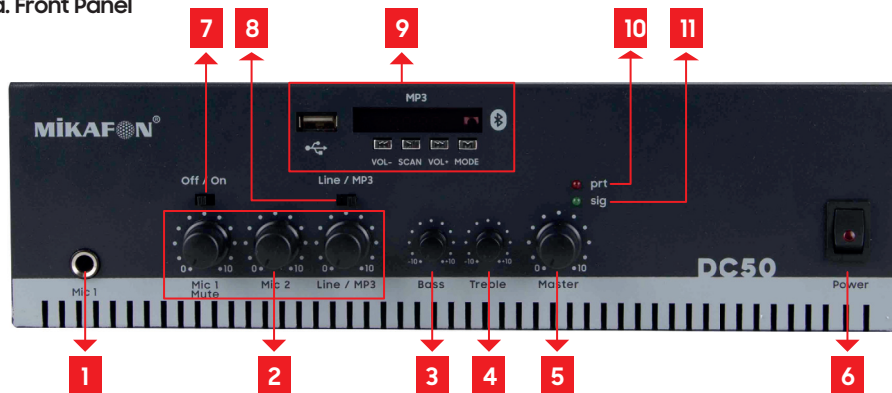


Figure 1 DC50 Front Panel

**1. Microphone #1:** It is the number 1 microphone input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic1 button.

**2. Microphone Volume:** Buttons for adjusting Mic1, Mic2 and Line/Mp3 gain levels. The level increases as the knob is turned clockwise and decreases as it is turned counterclockwise.

**3. Bass:** Button used to adjust the bass tone of the signal at the amplifier output.

**4. Treble:** Button used to adjust the treble tone of the signal at the amplifier output.

**5. Master Volume:** The button to adjust the sound gain of all sources connected to the device. EMG contact gain is not affected by this setting.

**6. On/Off Switch:** On/off switch of the device.

**7. Mute On/Off Switch:** Switch used for muting the number 2 microphone and the MP3 broadcast. It has second priority.

**8. Line/Mp3 Switch:** Switch used for selecting line input or MP3. The line is selected by entering the line input from the rear panel and turning the switch to the "Line" position. MP3 is selected by turning the switch to the "MP3" position.

**9. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.

**10. Protect LED:** Indicator LED indicating that the device has entered protection mode. Decrease the master volume and wait, after 2 seconds, the led turns green. If it does not, the device has malfunctioned. For troubleshooting, please see 4.

#### TROUBLESHOOTING.

**11. Signal LED:** Indicator LED indicating that the device is active and signal is present. It will light up if a source is connected.

## b. Rear Panel

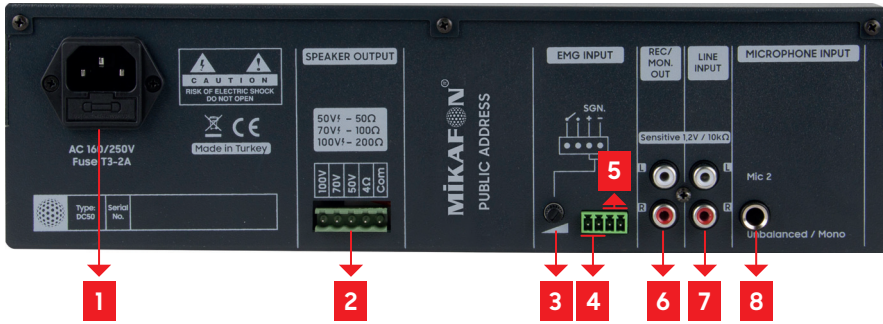


Figure 2 DC50 Rear Panel

1. **220VAC:** Power socket of the device. It is 220VAC mains input and protected by a fuse. The network must be grounded.
2. **Speaker Output:** Speaker outputs of the amplifier. One end of the output must be taken from the COM. Impedance values are adjusted according to the desired voltage. It is recommended to measure the line with an impedance meter and connect it to the output in accordance with the value seen in the table. Please see the table below.

Voltaj (V)	Empedans ( $\Omega$ )
	4 $\Omega$
50V	50 $\Omega$
70V	100 $\Omega$
100V	200 $\Omega$

Table 1 Speaker Output Voltage/Impedance Table

3. **Emergency Volume:** Volume control where the level of emergency audio output signals is adjusted. This value is not affected by changing the master volume value in the front panel.
4. **Emergency Contact:** It is the first priority entry. In case of contact, it starts to play the entered signal by muting other broadcasts.
5. **Emergency Signal:** Emergency signal input. The signal level should not exceed 1.2V. This level can be adjusted from the "Emergency Volume" section 3. It is recommended to use a shielded cable. Pay attention to the + and - values when entering the signal.
6. **Record / Monitor Output:** It is the mono output used for streaming to the recorder. In addition, an active monitor speaker can be connected for listening purposes. Output level is 1.2V.
7. **Line Input:** Signal source input of the amplifier. It can be used as a music source input. The input level is 1.2V.
8. **Microphone #2:** Microphone number 2 is the mono input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic2 button. Please see **3.CONNECTIONS** for connection method.



## 2.2. DC50Z | 50W Zone Input Compact Amplifier

### a. Front Panel

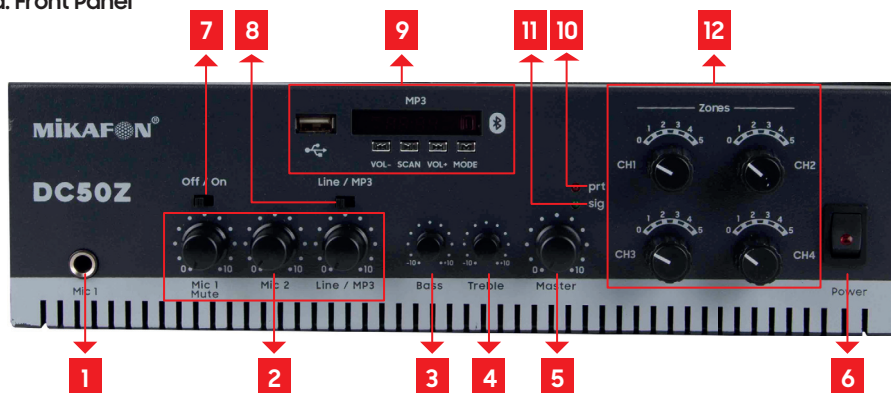


Figure 3 DC50Z Front Panel

**1. Microphone #1:** It is the number 1 microphone input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic1 button.

**2. Microphone Volume:** Buttons for adjusting Mic1, Mic2 and Line/Mp3 gain levels. The level increases as the knob is turned clockwise and decreases as it is turned counterclockwise.

**3. Bass:** Button used to adjust the bass tone of the signal at the amplifier output.

**4. Treble:** Button used to adjust the treble tone of the signal at the amplifier output.

**5. Master Volume:** The button to adjust the sound gain of all sources connected to the device. EMG contact gain is not affected by this setting.

**6. On/Off Switch:** On/off switch of the device.

**7. Mute On/Off Switch:** Switch used for muting the number 2 microphone and the MP3 broadcast. It has second priority.

**8. Line/Mp3 Switch:** Switch used for selecting line input or MP3. The line is selected by entering the line input from the rear panel and turning the switch to the "Line" position. MP3 is selected by turning the switch to the "MP3" position.

**9. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.

**10. Protect LED:** Indicator LED indicating that the device has entered protection mode. Decrease the master volume and wait, after 2 seconds, the led turns green. If it does not, the device has malfunctioned. For troubleshooting, please see 4.

### TROUBLESHOOTING.

**11. Signal LED:** Indicator LED indicating that the device is active and signal is present. It will light up if a source is connected.

**12. Zones:** Commutators used for adjusting the volume of the lines. It enables the channel to be muted when it is in the 0 position. 5 levels of volume adjustment can be made. The commutator level of all channels is set to the 5th position and the master volume is turned up to the maximum desired volume. By turning the zone commutators counterclockwise, the level of those zones is brought to the desired value.



## b. Rear Panel

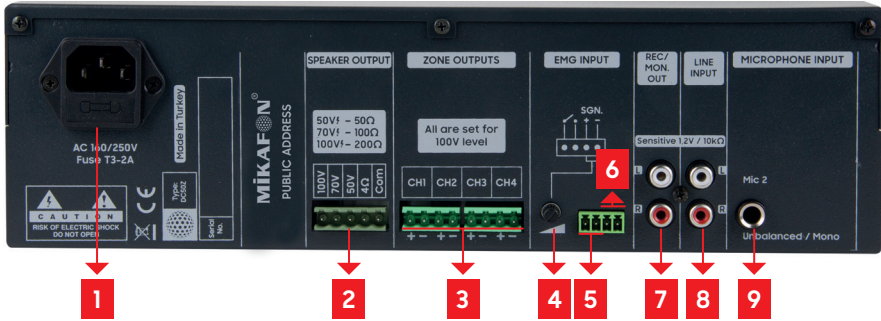


Figure 4 DC50 Rear Panel

**1. 220VAC:** Power socket of the device. It is 220VAC mains input and protected by a fuse. The network must be grounded.

**2. Speaker Output:** Speaker outputs of the amplifier. One end of the output must be taken from the COM. Impedance values are adjusted according to the desired voltage. It is recommended to measure the line with an impedance meter and connect it to the output in accordance with the value seen in the table. Please see the table below.

Voltaj (V)	Empedans (Ω)
	4Ω
50V	50Ω
70V	100Ω
100V	200Ω

Table 2 Speaker Output Voltage/Impedance Table

**3. Zone Outputs:** Output connectors of the zones. These outputs are used for controlling the volume levels of each output individually on the front panel. Level controls can be adjusted separately from the Zones section of the front panel. If speakers are connected to the Zone outputs, the Speaker Output part should not be used. All speakers must be passed over the zone output. Outputs are set to 100V.

**4. Emergency Volume:** Volume control where the level of emergency audio output signals is adjusted. This value is not affected by changing the master volume value in the front panel.

**5. Emergency Contact:** It is the first priority entry. In case of contact, it starts to play the entered signal by muting other broadcasts.

**6. Emergency Signal:** Emergency signal input. The signal level should not exceed 1.2V. This level can be adjusted from the "Emergency Volume" section 3. It is recommended to use a shielded cable. Pay attention to the + and - values when entering the signal.

**7. Record / Monitor Output:** It is the mono output used for streaming to the recorder. In addition, an active monitor speaker can be connected for listening purposes. Output level is 1.2V.

**8. Line Input:** Signal source input of the amplifier. It can be used as a music source input. The input level is 1.2V.

**9. Microphone #2:** Microphone number 2 is the mono input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic2 button. Please see **3.CONNECTIONS** for connection method.

## 2.3. DC100 | 100W Compact Amplifier

### a. Front Panel

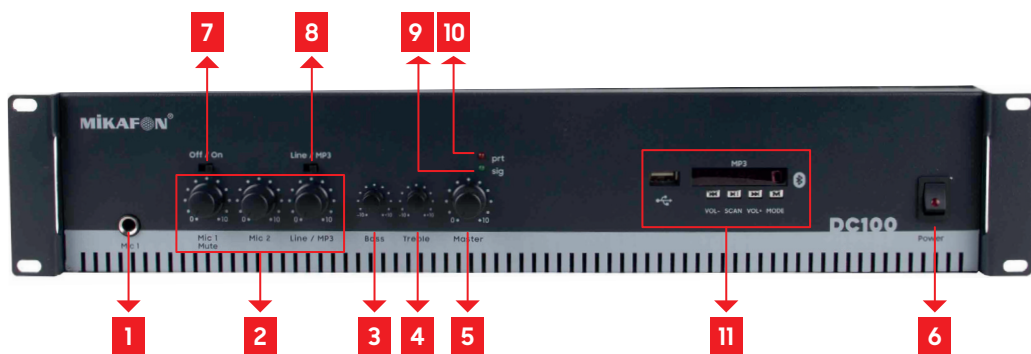


Figure 5 DC100 Front Panel

**1. Microphone #1:** It is the number 1 microphone input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic1 button.

**2. Microphone Volume:** Buttons for adjusting Mic1, Mic2 and Line/Mp3 gain levels. The level increases as the knob is turned clockwise and decreases as it is turned counterclockwise.

**3. Bass:** Button used to adjust the bass tone of the signal at the amplifier output.

**4. Treble:** Button used to adjust the treble tone of the signal at the amplifier output.

**5. Master Volume:** The button to adjust the sound gain of all sources connected to the device. EMG contact gain is not affected by this setting.

**6. On/Off Switch:** On/off switch of the device.

**7. Mute On/Off Switch:** Switch used for muting the number 2 microphone and the MP3 broadcast. It has second priority.

**8. Line/Mp3 Switch:** Switch used for selecting line input or MP3. The line is selected by entering the line input from the rear panel and turning the switch to the "Line" position. MP3 is selected by turning the switch to the "MP3" position.

**9. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.

**9. Protect LED:** Indicator LED indicating that the device has entered protection mode. Decrease the master volume and wait, after 2 seconds, the led turns green. If it does not, the device has malfunctioned. For troubleshooting, please see 4. **TROUBLESHOOTING.**

**10. Signal LED:** Indicator LED indicating that the device is active and signal is present. It will light up if a source is connected.

**11. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.

## b. Rear Panel

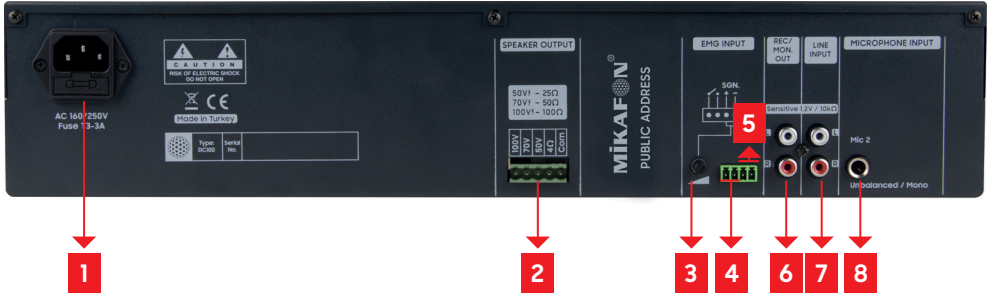


Figure 6 DC100 Rear Panel

1. **220VAC:** Power socket of the device. It is 220VAC mains input and protected by a fuse. The network must be grounded.
2. **Speaker Output:** Speaker outputs of the amplifier. One end of the output must be taken from the COM. Impedance values are adjusted according to the desired voltage. It is recommended to measure the line with an impedance meter and connect it to the output in accordance with the value seen in the table. Please see the table below.

Voltage (V)	Impedance ( $\Omega$ )
	4 $\Omega$
50V	25 $\Omega$
70V	50 $\Omega$
100V	100 $\Omega$

Table 3 Speaker Output Voltage/Impedance Table

3. **Emergency Volume:** Volume control where the level of emergency audio output signals is adjusted. This value is not affected by changing the master volume value in the front panel.
4. **Emergency Contact:** It is the first priority entry. In case of contact, it starts to play the entered signal by muting other broadcasts.
5. **Emergency Signal:** Emergency signal input. The signal level should not exceed 1.2V. This level can be adjusted from the "Emergency Volume" section 3. It is recommended to use a shielded cable. Pay attention to the + and - values when entering the signal.
6. **Record / Monitor Output:** It is the mono output used for streaming to the recorder. In addition, an active monitor speaker can be connected for listening purposes. Output level is 1.2V.
7. **Line Input:** Signal source input of the amplifier. It can be used as a music source input. The input level is 1.2V.
8. **Microphone #2:** Microphone number 2 is the mono input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic2 button. Please see **3.CONNECTIONS** for connection method.

## 2.4. DC200 | 200W Compact Amplifier

### a. Front Panel

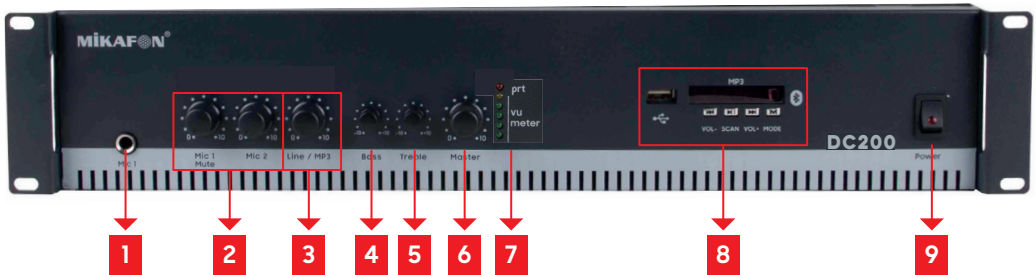


Figure 7 DC200 Front Panel

- 1. Microphone #1:** It is the number 1 microphone input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic1 button.
- 2. Microphone Volume:** Buttons for adjusting Mic1, Mic2 and Line/Mp3 gain levels. The level increases as the knob is turned clockwise and decreases as it is turned counterclockwise.
- 3. Line/Mp3 Switch:** Switch used for selecting line input or MP3. The line is selected by entering the line input from the rear panel and turning the switch to the "Line" position. MP3 is selected by turning the switch to the "MP3" position.
- 4. Bass:** Button used to adjust the bass tone of the signal at the amplifier output.
- 5. Treble:** Button used to adjust the treble tone of the signal at the amplifier output.
- 6. Master Volume:** The button to adjust the sound gain of all sources connected to the device. EMG contact gain is not affected by this setting.
- 7. Vumetre:** Volume indicator. The LEDs turn red as the level rises.
- 8. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.
- 9. On/Off Switch:** On/off switch of the device.

## b. Rear Panel

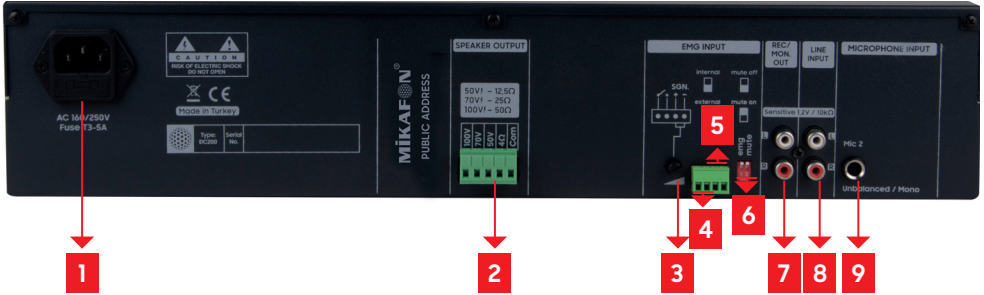


Figure 8 DC200 Rear Panel

**1. 220VAC:** Power socket of the device. It is 220VAC mains input and protected by a fuse. The network must be grounded.

**2. Speaker Output:** Speaker outputs of the amplifier. One end of the output must be taken from the COM. Impedance values are adjusted according to the desired voltage. It is recommended to measure the line with an impedance meter and connect it to the output in accordance with the value seen in the table. Please see the table below.

Voltage (V)	Impedance ( $\Omega$ )
	4 $\Omega$
50V	12,5 $\Omega$
70V	25 $\Omega$
100V	50 $\Omega$

Table 4 Speaker Output Voltage/Impedance Table

**3. Emergency Volume:** Volume control where the level of emergency audio output signals is adjusted. This value is not affected by changing the master volume value in the front panel.

**4. Emergency Contact:** It is the first priority entry. In case of contact, it starts to play the entered signal by muting other broadcasts.

**5. Emergency Signal:** Emergency signal input. The signal level should not exceed 1.2V. This level can be adjusted from the "Emergency Volume" section 3. It is recommended to use a shielded cable. Pay attention to the + and - values when entering the signal.





**6. Emg/Mute Switch:** Switch used for emg signal selection and mute feature of microphone 1. Please refer to the table below for the working principle of the switch.

Emg / Mute Switch	EMG	MUTE
ON (Down)	Internal: The emg signal is played from the recorded message inside the device.	Mute Off: Microphone #1 works normally.
OFF (Up)	External: The emg signal is played from the message entered from the (5) Emg Signal Connector.	Mute On: Microphone #1 is muted.

Table 5 Emg/Mute Switch Working Principle

**7. Record / Monitor Output:** It is the mono output used for streaming to the recorder. In addition, an active monitor speaker can be connected for listening purposes. Output level is 1.2V.

**8. Line Input:** Signal source input of the amplifier. It can be used as a music source input. The input level is 1.2V.

**9. Microphone #2:** : Microphone number 2 is the mono input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic2 button. Please see **3.CONNECTIONS** for connection method.

## 2.5. DC200Z | 200W Zone Input Compact Amplifier

### a. Front Panel

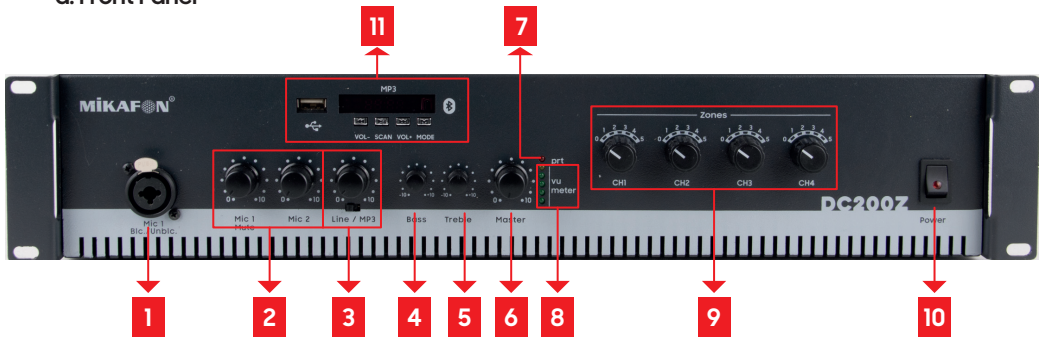


Figure 9 DC200Z Front Panel

**1. Microphone #1:** It is the number 1 microphone input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic1 button.

**2. Microphone Volume:** Buttons for adjusting Mic1, Mic2 and Line/Mp3 gain levels. The level increases as the knob is turned clockwise and decreases as it is turned counterclockwise.

**3. Line/Mp3 Switch:** Switch used for selecting line input or MP3. The line is selected by entering the line input from the rear panel and turning the switch to the "Line" position. MP3 is selected by turning the switch to the "MP3" position.

**4. Bass:** Button used to adjust the bass tone of the signal at the amplifier output.

**5. Treble:** Button used to adjust the treble tone of the signal at the amplifier output.

**6. Master Volume:** The button to adjust the sound gain of all sources connected to the device. EMG contact gain is not affected by this setting.

**7. Protect LED:** Indicator LED indicating that the device has entered protection mode. Decrease the master volume and wait, after 2 seconds, the led turns green. If it does not, the device has malfunctioned. For troubleshooting, please see 4. TROUBLESHOOTING.

**8. Vumetre:** Volume indicator. The LEDs turn red as the level rises.

**9. Zones:** Commutators used for adjusting the volume of the lines. It enables the channel to be muted when it is in the 0 position. 5 levels of volume adjustment can be made. The commutator level of all channels is set to the 5th position and the master volume is turned up to the maximum desired volume. By turning the zone commutators counterclockwise, the level of those zones is brought to the desired value.

**10. On/Off Switch:** On/off switch of the device.

**11. USB/Mp3:** MP3 module with USB input and LCD character display, where operations such as volume adjustment and mode selection can be made.



## b. Rear Panel

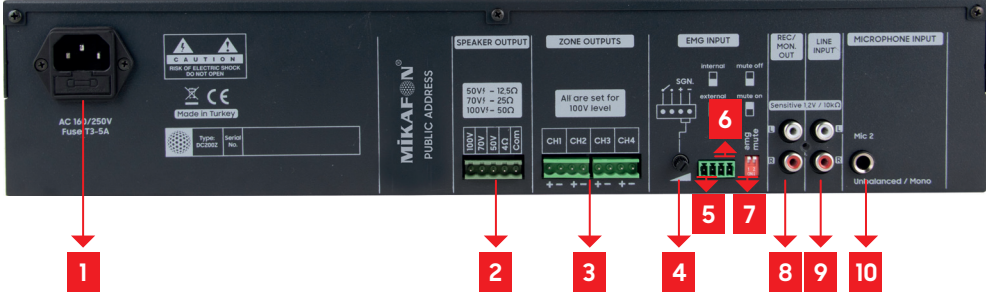


Figure 10 DC200Z Rear Panel

**1. 220VAC:** Power socket of the device. It is 220VAC mains input and protected by a fuse. The network must be grounded.

**2. Speaker Output:** Speaker outputs of the amplifier. One end of the output must be taken from the COM. Impedance values are adjusted according to the desired voltage. It is recommended to measure the line with an impedance meter and connect it to the output in accordance with the value seen in the table. Please see the table below.

Voltage (V)	Impedance ( $\Omega$ )
	4 $\Omega$
50V	12,5 $\Omega$
70V	25 $\Omega$
100V	50 $\Omega$

Table 6 Speaker Voltage/Impedance Table

**3. Zone Outputs:** 4 output connectors of the zones. These outputs are used for controlling the volume levels of each output individually on the front panel. Level controls can be adjusted separately from the Zones section of the front panel. If speakers are connected to the Zone outputs, the Speaker Output part should not be used. All speakers must be passed over the zone output. Outputs are set to 100V.

**4. Emergency Volume:** Volume control where the level of emergency audio output signals are adjusted. This value is not affected by changing the master volume value in the front panel.

**5. Emergency Contact:** It is the first priority entry. In case of contact, it starts to play the entered signal by muting other broadcasts.

**6. Emergency Sinyal:** Emergency signal input. The signal level should not exceed 1.2V. This level can be adjusted from the "Emergency Volume" section 3. It is recommended to use a shielded cable. Pay attention to the + and - values when entering the signal.



**7. Emg/Mute Switch:** Switch used for emg signal selection and mute feature of microphone 1. Please refer to the table below for the working principle of the switch.

Emg / Mute Switch	EMG	MUTE
ON (Down)	Internal: The emg signal is played from the recorded message inside the device.	Mute Off: Microphone #1 works normally.
OFF (Up)	External: The emg signal is played from the message entered from the (5) Emg Signal Connector.	Mute On: Microphone #1 is muted.

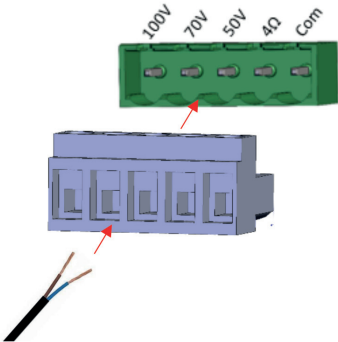
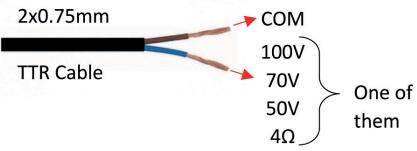
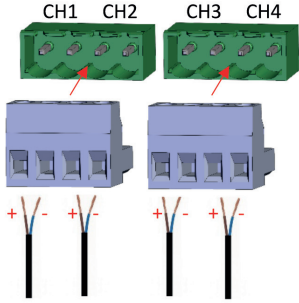
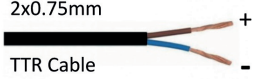
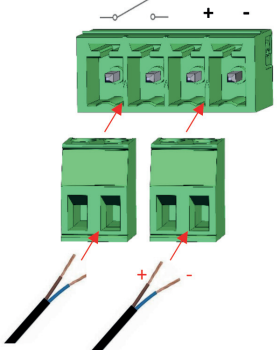
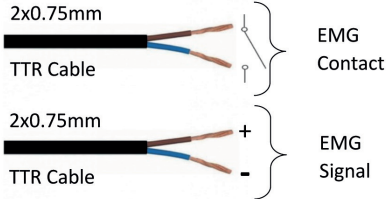
Table 7 Emg/Mute Switch Working Principle

**8. Record / Monitor Output:** It is the mono output used for streaming to the recorder. In addition, an active monitor speaker can be connected for listening purposes. Output level is 1.2V.

**9. Line Input:** Signal source input of the amplifier. It can be used as a music source input. The input level is 1.2V.

**10. Microphone #2:** Microphone number 2 is the mono input. It can be used as Unbalanced. If input is made, the volume can be adjusted from the Mic2 button. Please see **3.CONNECTIONS** for connection method.

### 3. CONNECTIONS

Speaker Outputs	
Connector 5.08mm 5P Terminal Block	Cable 2x0.75mm TTR Cable
	 <p>One end of the 2-wire cable is connected to the "COM" input, and the other end is connected to one of the 100V, 70V, 50V or 4Ω options.</p>
Zone Outputs	
Connector 5.08mm 4P Terminal Blok	Cable 2x0.75mm TTR Cable
	 <p>For each channel, one end of the 2-wire cable inputs is connected to the "+" and the other end "-". Up to 4 zones can be connected in total.</p>
EMG Input	
Connector 3.81mm 4P Terminal Block	Cable 2x0.75mm TTR Cable
	 <p>For EMG Signal input, one end of the 2-wire cable is connected to the left "+" and the other end to the right "-" input. EMG contact input is left side.</p>

### 3. CONNECTIONS

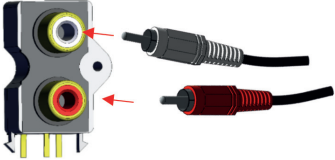

Record Output and Line Input	
Connector 3.5mm RCA Jack Female	Cable 3.5mm 2 RCA Male
	<p>3.5mm 2 RCA Male</p> <p>White Left Channel</p> <p>Red Right Channel</p> <p>The Record Out and Line In RCA connectors are connected to the same coinciding 3.5mm RCA connector colors.</p>
Microphone Input	
Connector 6.35mm Mono Female Socket	Cable 6.3mm Mono Audio Jack
	<p>6.3mm Mono Audio Jack</p> <p>Microphone input is entered to 6.3mm mono microphone jack sockets with a 6.3mm mono jack cable.</p>

Table 8 Connection Installations

\* The connectors in the table are available in the package.

#### 4. TROUBLESHOOTING

1. Protect Led On		
Cause	Solution	Result
The device is overloaded above its capacity.	The master volume is muted.	The Protect led turns off.
Device failure (heat protection, high power protection, etc.)		The Protect led turns off. *Send the device to service.
Line fault (short circuit)	The master volume is muted, after 2-3 seconds waiting time, the master volume is turned back on.	The Protect led turns off when the master volume is turned down, and turns on again when it is turned on. * Fix the line fault.

Table 9 Troubleshooting

# 5. TECHNICAL SPECIFICATIONS

Model		DC50				DC100				DC200				DC50Z				DC200Z			
Specifications																					
Connections		2x Microphone Input 1x USB Input 1x 220VAC Input 4x Speaker Output 1x EMG Contact Input *DC200 and DC200Z includes 30 second recorded message 1x EMG Signal Input / 1x Recording Device Output 1x Source Input 4x 100V Zone Outputs (only DC50Z and DC200Z)																			
Supply Voltage		160-250 VAC																			
Power Consumption	Nominal	50W				100W				200W				50W				200W			
	Max.	100W				200W				400W				100W				400W			
Fuse		T3-2A				T3-2A				T3-3A				T3-2A				T3-3A			
Frequency Response	Line	20 Hz-10kHz (±3 dB)																			
	Mic.	200 Hz-10kHz																			
SNR		> 65dB																			
Input Sensitivity	Line	-10 dB ( 240 mV )																			
	Mic.	-50 dBm ( 0,3mV )																			
Input Impedance	Line	10 kΩ																			
	Mic.	600 Ω																			
THD ( @ 1kHz)		≤0.03%																			
Circuit Protection		Soft Start, Low Voltage Protection, Overheat Protection Signal Break (clipping) Protection, Short Circuit Protection																			
Spe. Line Output Channel		1 channel																			
Spe. Line Output Signal		<1.6dBV(1.2V)																			
Spe. Line Output Voltage (V)		<div></div>	50	70	100	<div></div>	50	70	100	<div></div>	50	70	100	<div></div>	50	70	100	<div></div>	50	70	100
Spe. Line Output Impedance (Ω)		4	50	100	200	4	25	50	100	4	12.5	25	50	4	50	100	200	4	12.5	25	50
Zone Output	Channels													4 channels							
	Voltage													100V							
Contact Input		EMG Contact Input + EMG Signal Input																			
Record Output	Signal	<1.6dBV(1.2V)																			
	Channel	1 x Mono (L+R)																			
	Signal	<1.6dBV(1.2V)																			
	Impedance	10kΩ																			
Source Input	Channel	1 x Mono (L+R)																			
	Signal	<1.6dBV(1.2V)																			
	Impedance	10kΩ																			
Dimensions (including handle and button)		90 x 315 x 250 mm				90 x 485 x 250 mm				90 x 485 x 250 mm				90 x 315 x 250 mm				90 x 485 x 250 mm			
Weight (including handle if any)		3.750 kg (8.267lbs)				5.150 kg (11.353lbs)				4.950 kg (10.912lbs)				3.800 kg (8.377lbs)				5 kg (11.023lbs)			
Color		RAL7016																			
Operating Temperature		-5°C~45°C (23°F~113°F)																			
Relative Humidity		5% to %95 (non-condensing)																			

# WARRANTY

## GARANTİ BELGESİ

Bu belgenin kullanılmasına; 4077 sayılı Tüketicinin Korunması Hakkında Kanun ve bu Kanun'a dayanılarak yürürlüğe konulan Garanti Belgesi Uygulama Esaslarına Dair Yönetmelik uyarınca, T.C. Sanayi ve Ticaret Bakanlığı İl Müdürlüğü tarafından izin verilmiştir.

### İMALATÇI FİRMANIN

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MERKEZ ADRESİ: Şair Ziya Paşa Cad. No: 8/A 34420 Karaköy / İSTANBUL  
TELEFON: 0(850) 450 18 63 (Dahili: 210)  
FAKS: 0 212 244 5175



### MALIN

CİNSİ: KOMPAKT SES PROSESÖRÜ  
MARKASI: MİKAFON®



MODELİ:  
SERİ NO:

GARANTİ SÜRESİ: 2 (İKİ) YIL ————— WARRANTY: 2 (TWO) YEARS VALIDITY  
AZAMI TAMİR SÜRESİ: 30 (OTUZ) İŞ GÜNÜ ————— MEAN TIME TO REPAIR: 30(THIRTY)  
WORK DAYS

### SATICI FİRMANIN

ÜNVANI: \_\_\_\_\_  
ADRESİ: \_\_\_\_\_

TELEFONU: \_\_\_\_\_  
FAKSI: \_\_\_\_\_  
FATURA TARİH VE NO: \_\_\_\_\_ / \_\_\_\_\_

TARİH-İMZA-KAŞE:





**MİKAFON®**

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**MİKAFON ELEKTRONİK İNŞ. SAN. LTD. ŞTİ.**

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