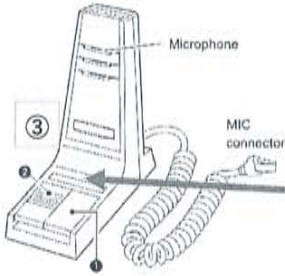


# Alinco EMS-98

Thank you for purchasing your new Alinco accessory. Please read this manual carefully before using the product to ensure full performance, and keep this manual for future reference as it contains information on after-sales service. In case addendum or errata sheets are included with this product, please read those materials and keep them together with this instruction manual for future reference.

Desk microphone for mobile radio with RJ 45-8P  
 Can connect with Alinco DR-735, DR-235, DR-MD520 Mobile radio  
 \*EMS98 can be utilized for DR138/438/CS10/CS25, however, please note Up/Down keys will not function properly.

## Desk microphone with DR-735/DR-MD520 cable



- ① **PTT SWITCH [PTT]**  
Hold down to transmit. Release to receive.
- ② **PTT LOCK [LOCK]**  
While holding down [PTT], slide [LOCK] to continuously transmit without having to hold down [PTT]. Slide [LOCK] back to stop transmitting and switch to receive.



- ③ **UP DOWN Key [UP] [DOWN]**  
Change radio channel go up or go down

## Desk microphone cables and each pinout DM1/DR 735 CABLE (set in mic as default)



DM1/DR 735 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
red	orange	green	brown	shield	white	blue	yellow
Function							
+8V	down	remote	PTT	MIC-GND	MIC+	GND	UP

DM1/DR MD520 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
blue	red	shield	brown	white	green	yellow	orange
Function							
GND	+8V	MIC-GND	PTT	MIC+	remote	UP	down

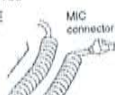
DM1/DR MD520 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
brown	red	yellow	orange	shield	white	green	blue
Function							
pt down	+5V	UP	SP+	MIC-GND	MIC+	pt up	GND

DM1/DR-235 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
blue	red	shield	brown	white	green	yellow	orange
Function							
GND	+8V	MIC-GND	pt down	MIC+	URX	UP	

DM1/DR-235 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
white	brown	orange	yellow	red	green	shield	blue
Function							
MIC+	PTT	DOWN	UP	+5V	remote	MIC-GND	GND

DM1/DR-235 CABLE (RJ45)							
1P	2P	3P	4P	5P	6P	7P	8P
blue	red	shield	brown	white	green	yellow	orange
Function							
GND	+8V	MIC-GND	PTT	MIC+	remote	UP	DOWN

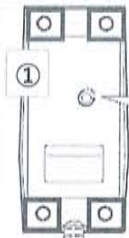
## Desk microphone cables DM1/DR MD520 CABLE



## Desk microphone cables DM1/DR 235 CABLE

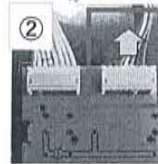


## How to change cable

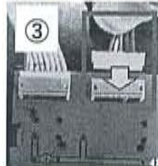


There are 3 types of mic cable in EMS98 gift box. Cable for DR735(set in mic as default) DR235 and DRMD520 Mobile radio. Cable selection is customizable according to your requirements. \*There is a label on the cable indicating the cable model, helping to distinguish the type of cable.\*

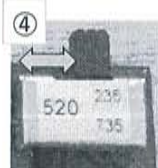
① Remove bottom panel.  
To remove the bottom panel, rotate corner screws counterclockwise. Afterward, take off the bottom panel.



② Pull out cable from terminal.  
\*When disconnecting the cable, avoid pulling on the cable itself.



③ Insert cable into terminal.  
\*When connecting the cable, ensure a secure connection by firmly



④ Select switch.  
To choose the DRMD520, move the switch to the left. The indicator is labeled as "520". To choose the DR235 and DR735, move the switch to the right. The indicator is labeled as "235/735".

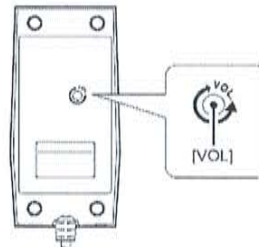


⑤ Attach bottom panel.  
Attach the bottom panel, and rotate the corner screws clockwise and attach rubber pad.



- ⑥-1. Enter Menu to press Green button.
- ⑥-2. Select "Settings"
- ⑥-3. Select "Radio Set"
- ⑥-4. Select "Other Func"
- ⑥-5. Select "Hand Type"
- ⑥-6. Select "Volt-Det"
- ⑥-7. Find "Volt-Det Selected" when succeeded changing setting.

## Desk MIC Bottom View



**MIC GAIN CONTROL [VOL]**  
 Rotate to adjust the microphone gain.  
 ⑦ Use this control as an addition to the transceiver's microphone gain setting. If the connected transceiver has a microphone gain control.  
 If your transceiver does not have a microphone gain control, you must adjust the microphone gain in the programming software.

**NOTE:** Rotate clockwise to decrease, or rotate counterclockwise to increase the microphone gain. Higher levels make the microphone more sensitive to your voice.

## Precautions and Disposal

- CAUTION:** NEVER expose the microphone to rain, snow or any liquids. The microphone may be damaged.
- CAUTION:** NEVER let metal, wire or other objects protrude into the microphone or into connector.
- CAUTION:** NEVER touch or operate the desktop microphone with wet hands.
- CAUTION:** NEVER use harsh solvents such as benzine or alcohol when cleaning, because they will damage the microphone's surfaces.
- DO NOT** operate or place the microphone in direct sunlight or in areas with temperatures below -25°C (-13°F) or above +60°C (+140°F).
- DO NOT** place the microphone in excessively dusty environments.
- Always place the microphone in a secure place to avoid inadvertent use by unauthorized person.
- DO NOT** dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

## SPECIFICATIONS

- Microphone type: Unidirectional dynamic microphone (pre-amplifier built-in)
- Power requirements: 8 V DC (supplied by the transceiver) Less than 10 mA
- Current drain: Less than 10 mA
- Dimensions: (Cable is not included) 70(W) × 169(H) × 167(D) mm 2.8(W) × 6.7(H) × 6.6(D) in

ALINCO declines any responsibilities for the crash, damage to, or performance of any ALINCO or third party equipment, if the malfunction is because of:  
 -Force majeure event such as Natural disasters, disturbances, riots, war or radioactive contamination.  
 -Use of third party accessory that is not approved by ALINCO.

## About Alinco

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