

# MDS Microphone Discussion System

## Installation & Operation Guide



### PRODUCT DESCRIPTION

The MDS microphone discussion system is a highly flexible small to medium size tabletop discussion system using a unique circuit loop design: easy to set up, using standard Cat 5 cables for linking up to 20 units in a daisy chain. The system accepts one chairman unit and up to 19 delegate units.

The power supply unit can be connected anywhere in the chain, preferably in the middle of the system when more than 10 units are connected. The chairman and power supply unit can be located anywhere in the system. The microphones are equipped with easily identifiable LEDs on the base unit and the flexible gooseneck microphone. Some models have a telescopic neck.

### FEATURES

- The delegate unit MDS.DEL is equipped with a talk button. When the microphone is active, the LED indicator above the talk button and the colored LED ring on the microphone is lit. Press the talk button to activate the microphone. Press the talk button again to deactivate.
- The chairman unit is equipped with a talk and mute button. When the mute button is pressed, only the chairman unit will be active. All delegate microphones will be muted and deactivated. The LED on the chairman unit will blink when the mute function is active. It will light up steady when the talk button is pressed (equivalent to the delegate unit).

### SETUP AND USE

The interconnection cable is a Cat 5 standard straight cable, according to EIA-568-B. Maximum cable length is determined by the number of units in use. In a system with 20 units, the recommended maximum length between each unit is 5 meters.

The Cat 5 cables are inserted at the rear of the MDS units. Every unit has an IN and OUT connector, however, both connectors are equivalent. It doesn't matter where you connect the Cat 5 cable.

Example: for a system with 9 delegate microphones and 1 chairman unit, you need:

- 1 x MDS.INT connection interface with power supply
- 1 x MDS.CHAIR chairman unit
- 9 x MDS.DEL delegate units
- 10 x standard straight Cat 5 cables (not supplied with the MDS units)
- It is not necessary to have a chairman unit in a system. Only one chairman unit can be used in a system.
- Do not speak loudly into the microphone from a short distance. The ideal distance to the microphone is 15 to 50 cm.
- Only use the power supply supplied with the MDS.INT unit.
- Do not connect the Cat 5 cables from the MDS system to a computer network, router or network switch.
- To prevent feedback noise, turn down the gain levels of all units before operating the system.
- Maximum system cable length: 100 m (10 x 10 m - 20 x 5 m)

## Parts and functions of the MDS.CHAIR unit



- 1. Chairman mute button**  
Press this button to mute all delegate units. The LED on the base unit (2) and on the gooseneck microphone (9) will blink. Press again to exit mute.
- 2. LED indicator**  
Lights up steady when the talk button (3) is pressed.
- 3. Talk button**  
Push to talk. The LED indicator on the base unit and the gooseneck microphone will light up steady. Press again to stop.
- 4. RJ45 out connector**  
Connect the Cat 5 cable here. Connector 4 and 5 have the same function.
- 5. RJ45 in connector**  
Connect the Cat 5 cable here. Connector 4 and 5 have the same function.
- 6. Power supply connector**  
Connect the power supply supplied with the MDS.INT unit here. Only one supply connection is required for the entire system.
- 7. Power LED**  
Green LED lights up when the unit is powered.
- 8. Gain adjustment**  
Adjust the gain (level) from the unit to match with the level of other units in the system.
- 9. LED indicator**  
Lights up steady when the talk button is pressed. Blinks when the mute button is pressed.

## Parts and functions of the MDS.DEL unit



### 1. Talk button

Push to talk. The LED indicator (2) on the base unit and the gooseneck microphone (8) will light up. Press again to stop.

### 2. LED indicator

Lights up steady when the talk button (1) is pressed.

### 3. RJ45 out connector

Connect the Cat 5 cable here. Connector 3 and 4 have the same function.

### 4. RJ45 in connector

Connect the Cat 5 cable here. Connector 3 and 4 have the same function.

### 5. Power supply connector

Connect the power supply provided with the MDS.INT unit here. Only one supply connection is required for the entire system.

### 6. Power LED

Green LED lights up when the unit is powered.

### 7. Gain adjustment

Adjust the gain (level) from the unit to match with the level of other units in the system.

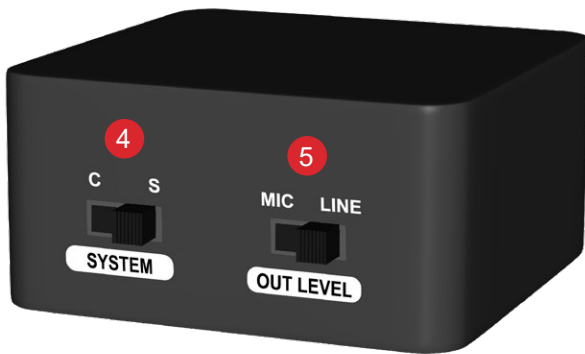
### 8. LED indicator

Lights up steady when the talk button is pressed.

NOTE: Except under chairman priority mode, the delegate unit(s) will shut off after approximately 5 minutes idle (no sound).



## Parts and functions of the MDS.INT unit



- 1. Audio in RJ45 connector**  
Connect the Cat 5 cable from the last unit in the chain here.
- 2. Power LED**  
Lights up when the system is powered.
- 3. Audio out**  
6.3 mm unbalanced jack connector: connect the audio cable here. The nominal output level is 100 mV/1 k-ohm output impedance. This line level signal will normally be connected to an amplifier or a pre-amp/mixer.
- 4. System switch (C/S)**  
C = select if chairman microphone is used.  
S = select if no chairman microphone is used.
- 5. Output level (MIC / LINE) switch**  
Select MIC or LINE to choose the output device.

### NOTE:

"S" should not be selected when a chairman microphone is part of a system as it will disable the microphone mute function. Selecting "S" is intended to enhance system stability when no chairman microphone is connected.

Legacy models of the MDS.INT do not include functions 4 and 5.

## Accessories supplied with MDS.INT



System power supply and 6.3 mm unbalanced jack cable:

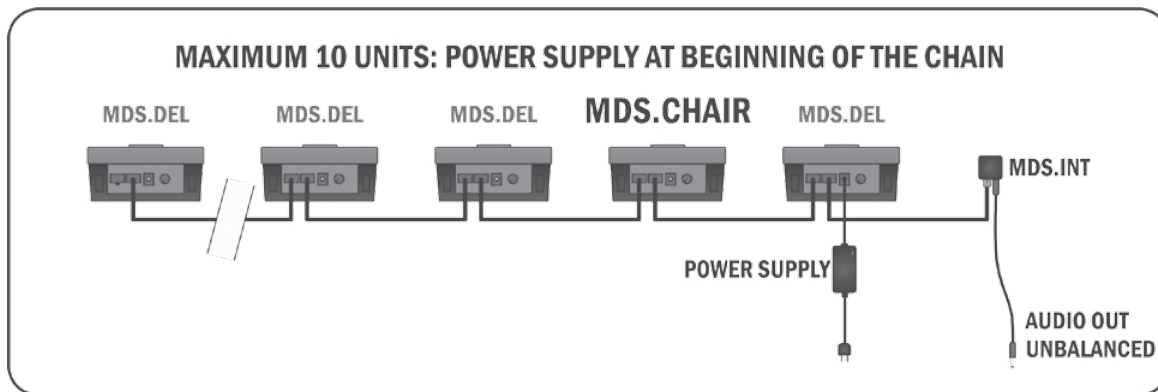
NOTE: the power supply can power up to 20 units in a daisy chain.

Output voltage is 15VDC/4.3A. The power supply has no power on/off switch.



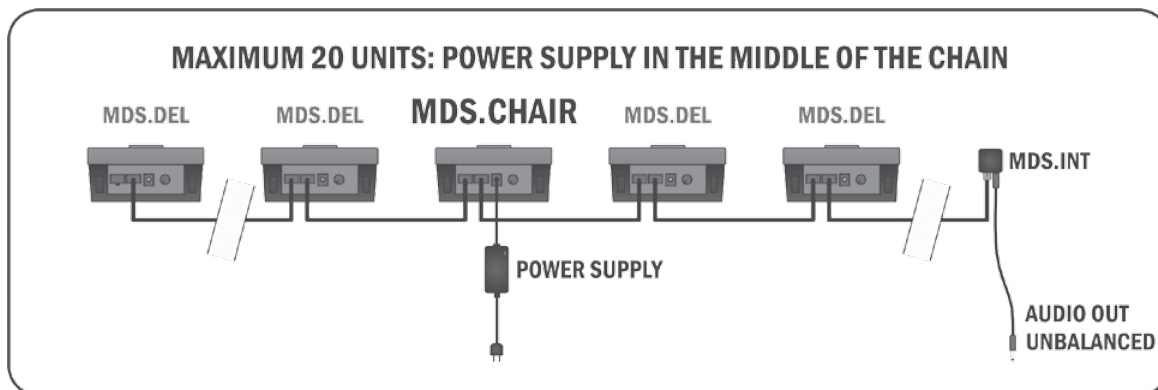
## Connection examples

Small microphone discussion system with 1 chairman unit and up to 9 delegate units: the power supply can be located at the end of the chain where the MDS.INT is located. The chairman unit can be located anywhere in the chain.



NOTE: maximum 1 chairman unit (MDS.CHAIR) is allowed per system. The unbalanced audio output signal will normally be connected to an amplifier or a pre-amp/mixer.

Medium microphone discussion system with 1 chairman unit and up to 19 delegate units: the power supply should be located near the middle of the chain. The MDS.INT unit will be located at the end. The chairman unit can be located anywhere in the chain.



NOTE: maximum 1 chairman unit (MDS.CHAIR) is allowed per system. The unbalanced audio output signal will normally be connected to an amplifier or a pre-amp/mixer.



## CONTACT US

**Email:** [support@biamp.com](mailto:support@biamp.com)

**Web:** [support.biamp.com](http://support.biamp.com)

**Warranty:** [biamp.com/legal/warranty-information](http://biamp.com/legal/warranty-information)

**Safety & Compliance:** [biamp.com/compliance](http://biamp.com/compliance)



**A:** 9300 S.W. Gemini Drive Beaverton, OR 97008 USA

**W:** [www.biamp.com](http://www.biamp.com)

MAY 2021