

**DM-270 AS**  
**DM-320 AS**  
**DM-420 AS**  
**DM-520 AS**

## MICROPHONE

### 1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary in this section, which contain important handling precaution.
- After reading, keep this manual handy for future reference.

### 2. HANDLING PRECAUTION

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquid, as doing so may result in unit failure.
- Never open nor remove the unit case to modify the unit. Refer all servicing to your nearest TOA dealer.
- Take care not to drop the unit onto the floor nor bump it againsts a hard object as the unit could fail.
- Do not place the unit in locations of high temperature (ex. In an un-ventilated car in summer) or high humidity as the unit could fail.
- Do not use the unit in locations where it is exposed to seawater.
- To clean, use a dry cloth. When the unit gets very dirty, wipe it lightly with a cloth damped in a dilute neutral cleanser, then wipe with a dry cloth. Never use benzene, thinner, or chemically-treated cleaning towel.

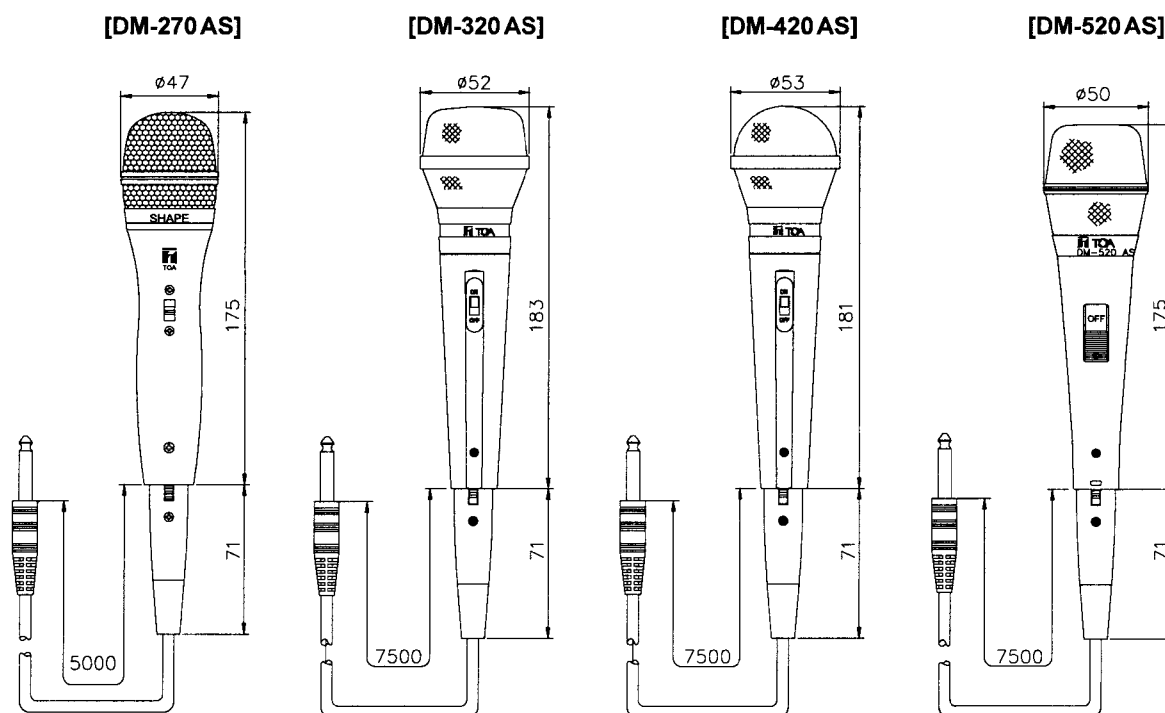
### 3. GENERAL DESCRIPTION

TOA DM series microphones is moving coil type microphones that suitable for vocal application. Employs sturdy metal body, make these microphones applicable for rigorous condition.

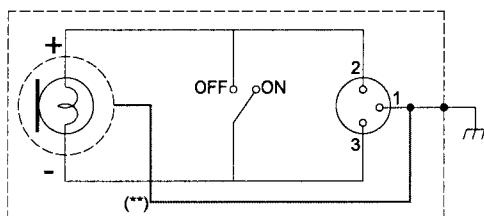
#### Feature

- Reproduce high sound clarity to combine with other sound system equipment.
- Separated type of cable, make it easy for maintenance purpose.
- Utilizing magnetic switch to reduce noise caused by switch contact (DM-520 AS only).
- Equipped with locking system for ON-OFF switch (DM-520 AS only).
- Special coating on microphone body to avoid microphone become slippery (DM-270 AS only).

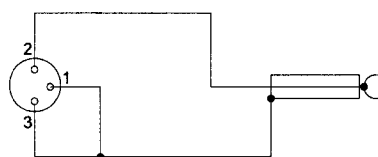
### 4. DIMENSIONAL DIAGRAM



## [Circuit Diagram]



[Microphone unit]

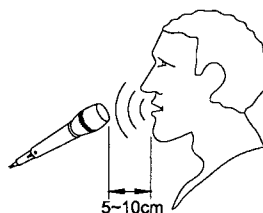


[Cable unit]

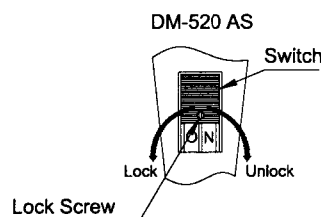
## 5. USING THE MICROPHONE

1. Place microphone 5~10 cm in front of mouth to get better sound clarity.

Note: Placing microphone closer than 5 cm could increasing proximity effect (bass boost). And placing microphone more than 10cm could increasing crosstalk from other sound source.



2. For DM-520 AS only, switch equipped with lock function. Use mini screwdriver to lock and unlock switch position. Turn lock screw counter clockwise to lock the switch position and otherwise to unlock it.



## 6. SPECIFICATION

| MODEL                                     |      | DM-270 AS                             | DM-320 AS       | DM-420 AS       | DM-520 AS       |
|-------------------------------------------|------|---------------------------------------|-----------------|-----------------|-----------------|
| Type                                      |      | Moving coil microphone                |                 |                 |                 |
| Directivity                               |      | Unidirectional                        |                 |                 |                 |
| Rated Impedance                           |      | 600 $\Omega$ , Balanced               |                 |                 |                 |
| Rated Sensitivity<br>(1kHz, 0dB = 1 V/Pa) |      | -52 dB                                | -55 dB          | -52 dB          | -55 dB          |
| Frequency response                        |      | 100 - 12,000 Hz                       | 100 - 12,000 Hz | 100 - 12,000 Hz | 100 - 12,000 Hz |
| Connection cable                          |      | Separated, Unbalanced                 |                 |                 |                 |
| Cable length                              |      | 5 meters                              | 7.5 meters      | 7.5 meters      | 7.5 meters      |
| Connector                                 |      | XLR-3 type                            |                 |                 |                 |
| Talk switch                               |      | Short off, slide switch               |                 |                 |                 |
| Finish                                    | Body | Black                                 | Dark grey       | Dark grey       | Dark grey       |
|                                           | Head | Black                                 | Dark grey       | Silver          | Dark grey       |
| Dimensions                                |      | Ø47 x 175 mm                          | Ø52 x 183 mm    | Ø52 x 183 mm    | Ø50 x 176 mm    |
| Weight                                    |      | 300 g                                 | 304 g           | 280 g           | 232 g           |
| Accessories                               |      | Microphone holder (W 5/16" 18 thread) |                 |                 |                 |



TOA Corporation