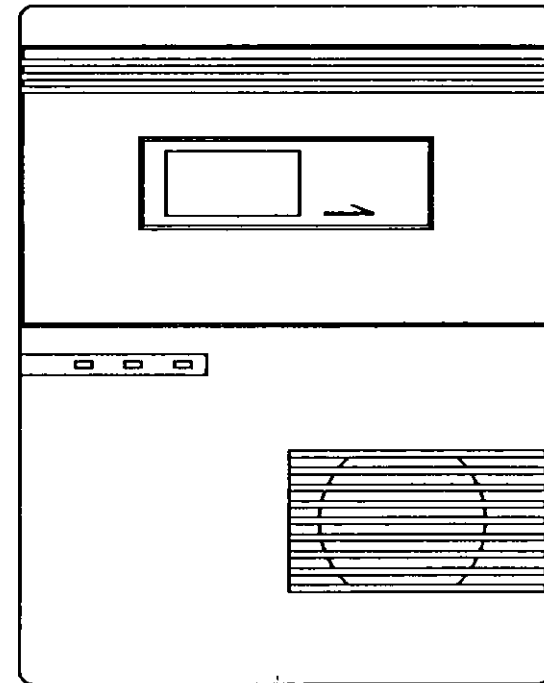


BOGEN®

**Digital Announcer
Models MMT34 & MMT68**

Operating Instructions



BOGEN.
COMMUNICATIONS, INC.
50 Spring Street, P.O. Box 575
Ramsey, NJ 07446 (201) 934-8500

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specifications

Sampling Method: Adaptive Delta Modulation (ADM)
Sampling Frequency (Switch Selected): 32/45 Kilobits/sec.
Memory Capacity (Switch Selected): MMT34 — 3 or 4:20 minutes total; MMT68 — 6 or 8:40 minutes total
Power Required: 12V AC/DC. Power supply included with the unit provides 12VAC @ 800mA from 110VAC source
External Speaker Power: 1 Watt into 8 ohms
Input: High-quality cassette-tape mechanism. Fully automatic operation
Output: LINE 600-ohms/transformer-balanced via RCA phono jack; 1Watt into 8-ohms via RCA jack (can be used to power an external speaker)
Controls: POWER on/off switch; SPEAKER on/off switch; VOLUME control (for monitor speaker, 1WATT and LINE output jacks); TRIG(ger) jack for single play operation
Indicators: LEDs for POWER, PLAY and RECORD
Mounting: Desk-top or wall-mounting, template and hardware included
Dimensions: 7-7/8" x 6-3/8" x 3-1/4"
Shipping Weight: 3 lbs.
Tape Cassette: Normal Bias (120 μ S) only, C-60 size or smaller

Table of Contents

Introduction	1
Front Panel Features	2
Rear Panel Controls and Connectors	3
Installation	4
Unpacking and Inspection	4
Installation Precautions	4
Select Memory Capacity	
Connecting a Power Supply	4
Connecting to a Telephone System	4
Connecting an External Speaker	4
Operation	5
External Trigger Operation	6
Use of CrO ₂ -Type Cassette Tapes	7
Troubleshooting	7
Care and Maintenance	8

Introduction

The Bogen Models MMT34 and MMT68 are designed to play a digitally recorded voice announcement over the message-on-hold bus of most telephone systems.

To operate the unit, a cassette tape is placed in the tape compartment. The unit automatically plays (previews) a portion of the audio program over its monitor speaker, and then pauses so that you can change tapes if desired. If you leave the cassette in the compartment, the message is recorded (downloaded) into digital memory. The digitally-stored message then plays continuously (it can be set for single-play operation). Solid-state operation results in less wear of the tape and tape drive mechanism, increasing reliability and performance.

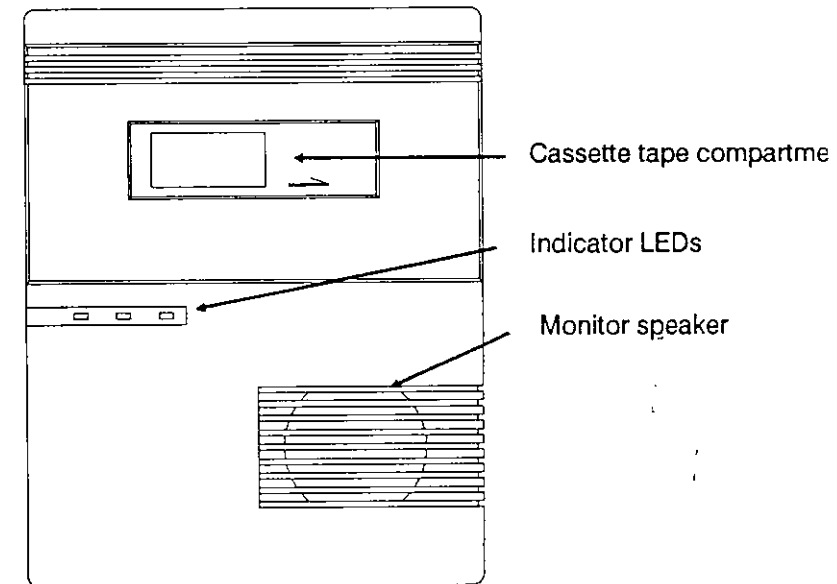
Each unit has two sampling rates, which determines the maximum recording times (shorter record time provides the highest quality playback sound). The MMT34 can record 3 or 4 minutes total. The MMT68 can record 6 or 8 minutes total. Each unit features:

- Automatic downloading, with preview function, from a standard cassette tape
- Automatic reload after power outage
- High reliability with no tape wear or maintenance problems
- Choice of 600-ohm "Line" output or 1 Watt (8-ohm) output
- Built-in monitor speaker with on/off switch
- Volume control (for monitor speaker, 600-ohm/1-Watt outputs).
- One time play capability (triggered by external contact closure)

To change a message, simply insert a new cassette. The new message is previewed and then automatically downloaded. Once a message has been loaded, the cassette rewinds and remains in the tape compartment. Then, if the power goes out, or if you turn your system off, the message is automatically reloaded once power is restored.

The unit provides 600-ohm and 1-watt output jacks for connection to the music-on-hold (MOH) bus of a telephone system, external speaker, or public address system. The unit mounts easily on a wall or shelf and comes complete with wall-mounting hardware, an audio patch cord, EXT trigger cord, and 12 VAC power supply which can be plugged into any convenient 110V AC outlet.

Front Panel Features



Cassette Tape Compartment

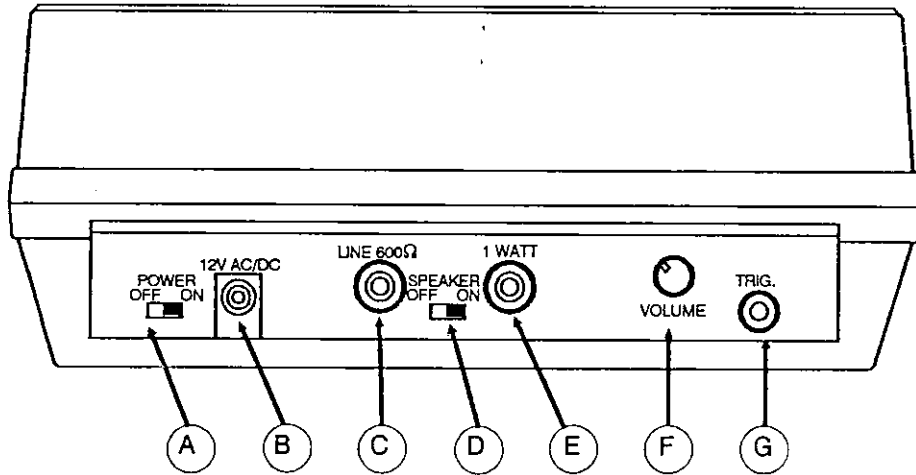
High-quality cassette tape drive mechanism accepts a standard cassette tape. Cassette tape direction indicator in the compartment door (cassette tape size should not exceed 60 min.)

LED Indicators

For POWER, PLAY, & RECORD (The PLAY indicator illuminates only while the digitally stored message is playing. It goes out when recording and between playbacks during single-play operation)

Monitor Speaker

Lets you monitor the tape during the preview and downloading process, and when the unit is operating. An on/off switch is included on the rear panel (SPEAKER)



A	POWER	Turns power on. The memory is erased when the switch is off
B	12V AC/DC	Jack accepts 12V AC or DC power to the unit. The power supply provides 12V AC @ 800mA from a 110V AC source
C	LINE 600Ω	600-ohm output to the MOH input on a telephone system or to a loudspeaker system
D	SPEAKER	Turns monitor speaker on or off
E	1 WATT	RCA jack provides 1 Watt @ 8 ohms
F	VOLUME	Controls output level of the monitor speaker and the 1WATT and LINE 600 Ω jacks
G	TRIG	External trigger jack for single-play operation. Accepts a mono or stereo mini-plug (you can monitor system operation when a stereo mini-plug is used)

Installation

Unpacking & Inspection

The MMT was carefully checked at the factory. Inspect the carton and unit for signs of damage. If damage is found, notify the dealer from whom the unit was purchased. If the unit was shipped to you, file a claim with the transportation carrier.

Installation Precautions

Observe the following installation precautions:

- Do not install the unit in damp areas, or in areas where it is likely to be exposed to rain or moisture.
- Do not install the unit in areas where the ambient temperature is likely to go below 40° F or exceed 90° F.
- Use suitable fasteners on hollow walls or other similar thin materials. Plastic screw anchors are included.

Select Memory Capacity

A MODE switch on the underside of the unit sets the maximum memory capacity. Set to 3/6 position for highest sound quality. Set to 4/8 position for extended memory capacity of 4 minutes, 20 seconds or 8 minutes, 40 seconds. The unit only acknowledges changes in memory capacity on power-up or cassette changes.

Connecting a Power Supply

Connect the output plug from the power supply to the 12V AC/DC jack on the rear panel of the MMT. Plug the power supply into any convenient 110V AC outlet.

Connecting to the Telephone System

Use the audio patch cord terminated with an RCA plug (included) to connect the LINE 600Ω output or 1 WATT output to the telephone system's music-on-hold (MOH) input. (The outputs can also be used to feed the input of a loudspeaker system's amplifier.)

Connection to an External Speaker

The 1 WATT output RCA jack can be used to power an external speaker. The output provides 1 watt into 8 ohms.