

AM/FM 35-Watt Digital Receiver

Model RM350D



Features

- PLL synthesized tuning with digital readout
- 18 FM & 12 AM presets
- 35-watt audio output
- Switch-selected page zones
- MIC includes VOX- or contact-activated music muting
- MIC input Automatic Level Control (ALC)
- Memory scan
- Bass and treble controls
- AUX input
- UL listed

Description

The Bogen RM350D is a unique, self-contained paging system for small- to medium-sized applications. It combines a digital tuner, microphone, and aux inputs with a 35-watt output capable of driving 4- and 8-ohm speaker systems as well as 25 or 70 volt distributed systems.

The tuner section uses a PLL synthesizer to provide accurate frequency selection. An LCD display shows the frequency readout. The tuner may be programmed with up to 18 FM and 12 AM preset stations. Pushbuttons are provided to tune stations, select presets, and scan preset stations.

Microphone input accepts a balanced Lo-Z microphone. The input uses a three-pin standard mic connector and has its own volume control. The input includes a switch-selected ALC circuit to maintain a uniform output level. The input also includes VOX-activated music muting of the program from tuner or aux source. Provisions are included to mute the program using dry contacts from a customer-supplied switch (selectable for normally open or closed; factory set for normally open).

A pushbutton on the front panel is used to select program from the tuner or aux input. The aux input consists of an RCA jack and can accept signal from a cassette tape, CD, or other line level source. Bass, treble and volume controls are provided to adjust the level of selected program (does not affect the microphone input).

The receiver permits connection of up to four switch-selected paging zones. A pushbutton is included to select all zones at once. A pre-page output lets you route tuner or auxiliary program to a telephone music-on-hold input. The output is not affected by volume, bass, or treble settings.

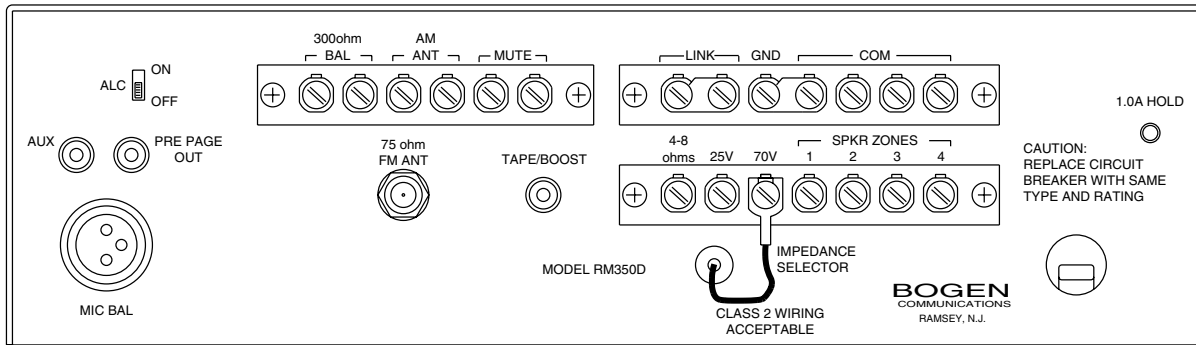
The receiver can accept input from a telephone line when an accessory transformer (the Bogen Model WMT1A) is used as the interface.

Output taps are provided for direct connection of 4- and 8-ohm speakers and for connection of 25 or 70 volt distributed systems. Individual zone taps are provided for ease of connection. An impedance jumper is provided to set the output signal on the zone taps.

The receiver operates from nominal 120V/60Hz AC. It may be rack-mounted using optional accessory brackets (Model RPK47), or placed upon a shelf. An FM dipole antenna, AM loop antenna, mono patch cord, and stereo-to-mono patch cord are included with the unit.

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Technical Specifications

Band Coverage:	AM — 530 to 1620kHz; FM — 87.5 to 107.9MHz
Tuning:	PLL Synthesizer
Channel Indicator:	LCD panel
Station Tuning:	Pushbutton
Preset Memory:	18 FM, 12 AM
Memory Scan:	Preset stations
Power Rating (RMS):	35 watts
Audio Frequency Response:	20Hz to 20kHz Direct; 70Hz to 15kHz Transformer
Audio Sensitivity:	80mV Aux; 750µV Lo-Z Mic
Microphone Input:	Lo-Z (XLR-312C connector)
Aux Input:	RCA jack accepts input from cassette tape, CD or other line-level source
Pre-Page Output:	Lo-Z via RCA jack
Tape Output:	Hi-Z via RCA jack
Output Taps:	4- and 8-ohm, 25V, 70V
ALC:	Switch-selected
Mic Precedence:	VOX-triggered or dry contact
Program Selection:	Push button
Controls:	Volume, Bass, Treble, Microphone Volume
Power Required:	120V AC nominal @ 60Hz, 98W
Dimensions:	12"W x 3-1/2"H x 8-1/2"D
Shipping Weight:	14 lbs.

Architect and Engineer Specifications

The paging system shall be the Bogen RM350D, a self-contained paging system for small- to medium-sized applications. It shall combine digital tuner, microphone, and aux inputs with a 35-watt output and shall be capable of driving 4- to 8-ohm speaker systems as well as 25 or 70 volt distributed systems.

The tuner section shall use a PLL synthesizer to provide accurate band selection. An LCD display shall be provided to display frequency readout. It shall be possible to program up to 18 FM and 12 AM preset stations. Push buttons shall be provided to tune stations, select presets, and scan preset stations.

An integral microphone input shall accept a balanced Lo-Z microphone. Input connection shall be via a three-pin standard mic connector. A microphone volume control shall be provided. The input shall include a switch-selected ALC circuit to maintain a constant output level. The input shall also include VOX- or contact-activated mute of program from tuner or aux source. Provisions shall be included to mute the program using dry contact from a customer-supplied switch. Either normally open or normally closed switches can be used.

A pushbutton on the front panel shall select between the tuner or Aux input as a program source. The aux input shall consist of a single RCA jack to accept signal from a cassette player, CD, or other line-level source. Bass, treble, and volume controls shall be provided to adjust the level of program. The volume control shall not affect the microphone input.

The RM350D shall permit connection of up to four switch-selected paging zones. A push button shall be included to select single zones; a single button shall be included to select all zones at once. A pre-page output shall be provided to route tuner or aux input to a telephone music-on-hold input. The output shall not be affected by volume, bass or treble settings.

It shall be possible to supply telephone line input to the unit when an accessory transformer (specify Model WMT1A) is used. Output taps shall be provided for direct connection of 4- to 8- ohm speakers and for connection of 25 or 70 volt distributed systems. Individual zone taps shall be provided for ease of connection. An impedance jumper shall be provided to set the output signal on the zone taps.

The RM350D shall operate from a nominal 120V/60Hz AC source, and shall be UL listed. It shall be rack mountable using accessory brackets (model RPK47) as an option. An FM dipole antenna, AM loop antenna, mono patch cord, and stereo-to-mono patch cord shall be included with the unit.

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