

[Manuals.plus](#) /

› [Motorola](#) /

› Motorola MOTOTRBO SL300 UHF 99 Channel Display Radio User Manual

Motorola SL300

Motorola MOTOTRBO SL300 UHF 99 Channel Display Radio User Manual

Model: AAH88QCP9JA2AN

1. INTRODUCTION

The Motorola MOTOTRBO SL300 UHF 99 Channel Display Radio provides reliable push-to-talk communication in an ultra-slim and rugged profile. Designed for mobile and everyday users, this portable radio is suitable for various environments, from field operations to formal events. It incorporates an Active View display and Range Max technology for enhanced performance and user experience.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Motorola MOTOTRBO SL300 Radio
- Charger
- Lithium-Ion Battery
- Antenna
- Belt Clip



Image: Contents of the Motorola SL300 package, including the radio, charger, battery, antenna, and belt clip.

3. PRODUCT FEATURES

- **Ultra-Slim Design:** Measuring less than an inch thick, the SL300 is highly portable and can be carried discreetly.
- **Simple Operation:** Features a separate power button, top channel toggle switch, side volume controls, and a prominent push-to-talk button for easy one-hand operation.
- **Dual Capacity Direct Mode:** Utilizes 2-slot TDMA DMR standard to double 12.5 kHz channel capacity without a repeater.
- **IP54 Rated:** Rugged construction ensures splashproof and dustproof operation in harsh environments.
- **Range Max Receiver:** Advanced radio design and patented antenna provide enhanced range while maintaining a slim profile and long battery life.
- **Active View Display:** A shatterproof display with hidden LED lighting clearly communicates channel, radio, and volume information in various lighting conditions.
- **99 Channels:** Supports up to 99 channels for versatile communication needs.

MOTOTRBO™ SL300 PORTABLE RADIO

PORTABILITY AND SIMPLICITY REDEFINED



The MOTOTRBO™ SL300 provides reliable push-to-talk communication for the mobile, everyday user in an ultra-slim and rugged profile. Whether you're coordinating a school event or working in the field, the SL300 is boldly designed to keep you efficiently connected.

The latest technology works to make operation of the SL300 simple and straightforward. Ergonomic design allows one-handed radio operation, and a versatile accessory portfolio gives you the freedom to focus on the job at hand.

The SL300 is compatible with the MOTOTRBO features you'll find are business-essential, for example a transmission can be interrupted to prioritize critical communications. Additionally, the SL300 utilizes digital and analog radio technology concurrently to fit seamlessly into your existing communication system.

ULTRA-SLIM PROFILE

Measuring under an inch thick, the SL300 is ultra-portable. A stubby antenna, curved edges and rugged frame make the SL300 the perfect work partner. It can be easily carried in pockets and purses without snagging or bulging.

ADVANCED TECHNOLOGY

The SL300 is outfitted with the latest technology for performance and ease of use. The shatterproof Active View display uses a matrix of LEDs behind the radio housing to communicate radio information and shuts off when not in use to conserve battery life. The SL300 features Range Max technology: an advanced radio design and patented antenna which delivers enhanced range while maintaining a slim profile.

SIMPLE OPERATION

The SL300 has been designed for easy, intuitive use. The side volume control, dedicated power button, prominent push-to-talk button, and top toggle channel switch have all been designed for quick one-hand access. Channel "fast toggle" allows users to scroll through 10 channels at a time.

RUGGED AND RELIABLE

The SL300 is built to last. IP54 rated for dust and water resistance, it can be used even in harsh environments. This radio can survive many drops and tumbles. It has also been proven tough in Motorola's grueling Accelerated Life Test, where the radio is tested against a simulated 5 years of hard service before it is accepted.

Image: Overview of key features of the Motorola MOTOTRBO SL300, emphasizing its slim design, ease of use, and durability.

4. SETUP

4.1. Install Battery

1. Align the battery with the back of the radio.
2. 4.2. Attach Antenna

1. Screw the antenna clockwise into the connector on top of the radio until it is finger-tight.

4.3. Charge Battery

Before first use, fully charge the battery using the provided charger.

1. Place the radio with the battery installed into the charging tray.

2. Ensure the charging indicator light illuminates, indicating proper charging.

4.4. Attach Belt Clip





Image: Motorola SL300 radio shown with the belt clip attached, ready for wear.

1. Align the belt clip with the grooves on the back of the radio.
2. Slide the clip downwards until it locks into position.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- Press and hold the **Power/Info** button located on the top of the radio until the display activates or deactivates.

5.2. Adjust Volume

- Use the **Volume Up (+)** and **Volume Down (-)** buttons on the side of the radio to adjust the audio level.

5.3. Change Channel



Image: Top controls of the Motorola SL300, including the Power/Info button and channel selection buttons.

- Use the **CH+** and **CH-** buttons on the top of the radio to cycle through available channels. The Active View display will show the current channel.

5.4. Push-to-Talk (PTT)

- Press and hold the large **PTT** button on the side of the radio to transmit. Release to listen.

5.5. Info Button

- A short press of the **Power/Info** button can display additional radio status information on the Active View display.

Your browser does not support the video tag.

Video: This video demonstrates the Motorola MOTOTRBO SL300 radio's features, including its slim design, intuitive controls, and Active View display. It highlights the radio's suitability for various professional environments and its robust audio capabilities.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the radio's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** For optimal battery life, charge the battery regularly and avoid extreme temperatures. Store the radio and battery in a cool, dry place.
- **Antenna Inspection:** Periodically check the antenna for any damage and ensure it is securely attached.

7. TROUBLESHOOTING

- **Radio not powering on:** Ensure the battery is fully charged and correctly installed.
- **No audio/poor audio quality:** Check the volume level. Verify that you are on the correct channel and within range of other radios.
- **Cannot transmit:** Ensure the PTT button is fully pressed. Check if the channel is busy.

For further assistance, refer to the full product documentation or contact Motorola support.

8. SPECIFICATIONS

Below are the general specifications for the Motorola MOTOTRBO SL300 radio:

Feature	Detail
Item Weight	5.8 ounces
Product Dimensions	0.87 x 2.17 x 4.95 inches
Item Model Number	AAH88QCP9JA2AN
Batteries	1 Lithium Ion battery required
Channel Capacity	99 (Display models)
Frequency Band	UHF (403-470 MHz)
Power Output	1W/2W/3W (with Range Max technology)
IP Rating	IP54 (Splashproof and Dustproof)
Battery Life (Li-Ion 2300mAh)	Digital: 14 hours, Analog: 11.8 hours

GENERAL SPECIFICATIONS

		VHF		UHF BAND 1	
		PLAIN	DISPLAY	PLAIN	DISPLAY
Channel Capacity		2	99	2	99
Typical RF Output					
Low Power Output	Analog Digital	1W 2W 3W		with Range Max technology	
High Power Output					
Frequency		136-174 MHz		403-470 MHz	
Dimensions (H x W x L)		4.95 X 2.17 x 0.87 in (125.7 X 55.0 X 22.0 mm)			
Weight with Battery		5.96 oz (168.9 g)		5.84 oz (165.6 g)	
Power Supply		3.7V (Nominal)			
Battery Life ¹ [Li-Ion (2300mAh) Battery]					
Analog (hours)		12.5	11.8	12.5	11.8
Digital (hours)		15	14	15	14
FCC Description		AZ489FT3835		AZ489FT4922	
IC Description		109U-89FT3835		109U-89FT4922	

RECEIVER

	VHF	UHF BAND 1
Frequency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz ²	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Analog Sensitivity (12 dB SINAD)	0.3 uV 0.22 uV (typical)	
Digital Sensitivity (5% BER)	0.25 uV 0.19 uV (typical)	
Intermodulation (TIA603D)	70dB	
Adjacent Channel Selectivity (TIA603D)	45 dB @ 12.5 kHz 70 dB @ 25 kHz ²	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5 W (Internal)	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz ²	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	



Image: General specifications table for the Motorola MOTOTRBO SL300.

9. WARRANTY AND SUPPORT

The Motorola MOTOTRBO SL300 radio comes with a **2-Year Warranty**. For warranty claims, technical support, or additional product information, please contact your authorized Motorola dealer or visit the official Motorola Solutions website.