

EVX-S30 Portable Two-Way Radio

Reliable communication.
Subtle presence.

Keep your team aligned with the EVX-S30. Equip your staff with a sleek, compact radio engineered for professional, uninterrupted, shift-long connectivity.



EVX-S30 portable two-way radio

Operational efficiency drops the moment communication fails. Don't let bulky, heavy radios slow your workforce down. Built with a slim, low-profile design, the EVX-S30 survives real-world drops and workplace spills to deliver the uninterrupted clarity your team needs to sustain productivity. Because it talks to your legacy analog radios right out of the box, it protects your previous capital investments, letting you transition your fleet on your own budget while avoiding a forced, expensive overhaul. By keeping your staff reliably connected from the first call of the shift to the last, you eliminate costly downtime and maintain your business momentum.

Focused audio

Filters out background static to deliver crisp, clear sound over loud workplace distractions and bustling environments by utilizing advanced AMBE+2™ digital vocoder and 2W of audio power.

Everyday durability

Protect your investments against drops, spills and downpours with a dust-tight, IP67-rated build that survives complete water submersion for up to 30 minutes, safeguarding your equipment with ease.

Critical safety

Keep staff safe when performing independent tasks with built-in Lone Worker and Emergency Alerts, turning individual radios into a vital safety tool when an emergency arises.

Structured communication

Supporting 256 channels and 16 groups, this expansive capacity allows you to structure distinct teams across your entire facility, eliminating cross-talk and channel congestion.





Features

GENERAL

Water Submersible and Dust Proof (IP67)

Channel capacity:

- 256 Channels / 16 Groups

4 Programmable Buttons

8 Character Alphanumeric Display

Safety Features:

- Lone Worker Alert
- Emergency Alert

Multiple Scan Options

Better Radio Call Quality with AMBE+2™ Vocoder

Battery Status Indicator (low battery alert)

Battery Saver

Busy Channel Lock Out (BCLO)

Time Out Timer

Keypad Lock

AF Minimum Volume

Auto Power Off

Escalating Alerts

Low Power

Whisper Mode

RSSI indicator

VOX (compatible headset required)

ANALOG MODE

Busy Tone Lock Out (BTLO)

Auto Range Transponding System (ARTS™)

Voice Inversion Encryption

DIGITAL MODE

Direct Mode

Transmit Interrupt

Site Search

Message Control and Privacy

Text Message

All, Group and Private Call

Basic and Enhanced Privacy

Radio Check

Radio Stun / Revive

Remote Monitor (decode)

Call Alert

Call History

Simplex Only and Repeater Capable Encryption

Emergency

Radio Enable / Disable

Scan Options:

- Scan (Mixed Mode - Analog / Digital Channels)
- Scan (Operator Selectable On / Off)

SIGNALLING

MDC-1200® ANI Encode

- MDC-1200 ANI
- MDC-1200 Call Alert
- MDC-1200 Selcall
- MDC-1200 Radio Check
- MDC-1200 Stun / Revive

CTCSS / DCS encode and decode

2-Tone Encode / Decode

5-Tone Encode / Decode

Stun / Kill / Revive (5-Tone and DTMF Pager)

DTMF Encode / Decode

DTMF ANI

DTMF paging

DTMF Speed Dial



Specifications

GENERAL	
Frequency	403 - 480 MHz
Typical RF output	
Digital	3 W / 2 W / 1 W / 0.5 W
Analog	2 W / 1 W / 0.5 W
Channel capacity	256
Channel spacing ¹	12.5 / 25.0 kHz
Display	8 character alphanumeric
Programmable buttons	4 (Front: 3, Side: 1)
Dimension (H x W x D) with battery	3.6 x 2.2 x 1.2 inches
Weight with battery, antenna, belt clip	7.6 oz
Power supply (nominal)	3.8 V
Battery life (analog / digital) ²	11 hours / 12 hours
FCC description	AZ489FT4980
IC description	109U-89FT4980
TRANSMITTER	
FM Modulation	12.5kHz: 11K0F3E 25.0kHz: 16K0F3E
4FSK digital modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination: 7K60F1W
Digital protocol	ETSI TS 102 361 -1, -2, -3
Conducted / radiated spurious emissions (TIA603E/ANSI C63.26)	< -36 dBm for < 1 GHz < -30 dBm for > 1 GHz
Adjacent channel power (TIA603E/ ANSI C63.26)	> 60 dB @ 12.5 kHz > 70 dB @ 25 kHz
Frequency stability	± 1.5 ppm
Modulation limiting (TIA603E/ ANSI C63.26)	± 2.5 kHz @ 12.5 kHz ± 5.0 kHz @ 25 kHz
AUDIO	
Audio Output Power (Rated / Max)	1.5 W / 2 W
Audio Distortion at rated power	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Digital Vocoder Type	AMBE+2™

RECEIVER	
Analog Sensitivity (12dB SINAD)	0.20 µV (typical)
Digital Sensitivity (5% BER)	0.20 µV (typical)
Conducted / Radiated Spurious Emissions (TIA603E/ANSI C63.4)	< -57 dBm for < 1 GHz < -47 dBm for > 1 GHz
Intermodulation (TIA603E)	> 70 dB
Adjacent Channel Selectivity (TIA603A)-1T	> 60 dB @ 12.5 kHz > 70 dB @ 25 kHz
Spurious Rejection (TIA603E)	> 70 dB
Frequency stability	± 1.5 ppm
ENVIRONMENTAL	
Operating Temperature ³	-30 °C to 60 °C
Storage Temperature	-40 °C to 85 °C
Thermal Shock	Per MIL-STD 810C, D, E, F, G, H
Humidity	Per MIL-STD 810C, D, E, F, G, H
Electrostatic discharge	IEC 61000-4-2 Level 4
Dust and water intrusion	IEC60529 IP67
Salt fog	Per MIL-STD 810C, D, E, F, G, H

¹ 25kHz channels not available in USA

² Typical battery life, 5/5/90 profile at maximum transmit power. Actual observed runtimes may vary

³ Temperature listed are for radio specifications. Li-Ion battery discharge: -20°C to +60°C





MILITARY STANDARDS (MIL-STD 810)

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G		MIL-STD 810H	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.6	II	500.6	II
High temp	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A2	501.7	I/A1, II/A1
Low temp	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II	502.5	I, II	502.7	I, II
Temp shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	I	503.5	I/C	503.7	I/C
Solar radiation	505.1	II	505.2	I/A1	505.3	I/A1	505.4	I/A1	505.5	I/A1	505.7	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III	506.6	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II/Aggravated	507.6	II/Aggravated
Salt fog	509.1	I	509.2	I	509.3	I	509.4	-	509.5	-	509.7	-
Blowing dust & sand	510.1	I / -	510.2	I, II	510.3	I, II	510.4	I, II	510.6	I, II	510.7	I, II
Vibration	514.2	VIII/F, W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24, II/5	514.6	I/24, II/5	514.8	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.7	I, IV	516.8	I, IV

To learn more, visit:

www.motorolasolutions.com/evx-s30



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