

KALE

DMR RADIO FAMILY

General Properties

- Analog and digital modes
- Compatible with DMR
- User Informative Alerts
- LCD Display
- Alphanumeric Keypad
- Graphical User Interface
- Call Logging
- Caller ID
- 3-Level RF Output Power
- Channel Scan
- VOX (Only With Audio Accessories)
- Transmit Time-out Timer
- Configurable Menu Options
- Computer Based Maintenance
- Compatible with MIL STD 810 C/D/E/F/G
- Compatible with TS 102 361-1,2,3,4 (Tier-I,II,III options)

Digital Mode Properties

- Group call
- Individual call
- Emergency Call
- SMS (Short Message Service from Radio to Radio)
- Encryption (Optional)
- Index Book

Aselsan Wide Area Coverage Applications

- Over-the-air frequency update
- Query from GPS location by an authorized radio
- Radio stun / kill by an authorized radio



Portable Radio



Desktop Radio



Mobile Radio

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General Technical Specifications

Modulation	Analog FM, 4FSK
Channel Spacing	12,5 / 25 kHz (Analog) 12,5 kHz (Digital)
Vocoder	AMBE++
Encryption Algorithms	AES, Customized Encryption
Channel Capacity	256
Operating Voltage	Portable: 7.5 Vdc \pm 10% Mobile: 13.6 Vdc \pm 10% Desktop: 13.6 Vdc \pm 10%
Display	64x128 pixel LCD
Keypad	Portable: 18 keys with backlight Mobile and Desktop: 20 keys with backlight
Dimensions of Portable Radio (without battery) (HxWxL)	132x60x18.6mm (projections not included)
Weight of Portable Radio (without antenna and battery)	220 g
Dimensions of Mobile Radio (HxWxD)	46x165x165mm (projections not included)
Weight of Mobile Radio	1,50kg
Desktop Radio Dimensions	67x297x227 mm (HxWxD)
Desktop Radio's Power Supply Dimensions (HxWxD)	Type1: 67x297x227 mm Type2: 60x126x310 mm
Weight of Desktop Radio	3,5 kg
Operating Temperature Range	-30°C / +60°C
Storage Temperature Range	-40°C / +85°C
Humidity	%90 @ 50°C

Portable Radio Batteries

Battery Type	Dimensions (HxWxL)	Weight	Capacity	Duty Cycle* (5-5-90) @5W
High Capacity Ni-MH	110x51x18 mm	205 g	1900 mAh	\geq 15 h (With power saving)*
High Capacity Li-Ion	110x51x24 mm	150 g	2300 mAh	\geq 18 h (With power saving)*

* Values are evaluated for the digital mode at 5.0 W RF output power, in accordance with TIA 603-D under nominal conditions.

Receiver Technical Specifications

	VHF	UHF
Frequency Range	136-174 MHz	380-470 MHz
Rated Audio Output Power	Portable: 1 W / 8 Ω Mobile: 7.5 W / 8 Ω Desktop: 7 W / 8 Ω	1 W / 8 Ω 7.5 W / 8 Ω 7 W / 8 Ω
Sensitivity	\leq -117 dBm	\leq -116 dBm
Intermodulation Rejection	Portable: \geq 65 dB Mobile: \geq 70 dB Desktop: \geq 70 dB	\geq 65 dB \geq 70 dB \geq 70 dB
Spurious Response Rejection	Portable: \geq 70 dB Mobile: \geq 70 dB Desktop: \geq 70 dB	\geq 70 dB \geq 70 dB \geq 70 dB
Audio Distortion	\leq %5	\leq %5

Transmitter Technical Specifications

Rated RF Output Power	Portable: 1-5 W Mobile: 10-40 W Desktop: 10-90 W	1-5 W 10-30 W 10-70 W
Frequency Stability (-30°C / +60°C; 25°C ref)	\pm 2 ppm	\pm 2 ppm
Conducted Spurious Emissions	\leq -36 dBm @ < 1 GHz	\leq -36 dBm @ < 1 GHz