SD300K DMR Digital Radio

DMR Radios | Model: SD300K

The full-keypad digital flagship for large, multi-team fleets.



Key features

- DMR digital + analogue dual mode
- Full keypad with 1.8-inch color LCD
- 1024 channels (16 × 64 groups)
- SMS messaging
- Digital voice encryption
- 2-slot TDMA (DCDM) operation
- Remote kill, activation, detection and monitor
- 2000 mAh Li-ion — about 20 h digital (5-5-90)
- Same compact housing as the SD320, 250 g

Specifications

Frequency range	VHF 136–174 MHz · UHF 400–470 MHz
Channel capacity	1024 channels (16 channels × 64 groups)
Display	1.8-inch color LCD · SMS supported
Operating voltage	DC 7.4 V ± 10%
Channel spacing	Analog 25 / 12.5 kHz · Digital 12.5 kHz
Battery	2000 mAh Li-Ion
Battery life (5-5-90)	Analog about 15 h · Digital about 20 h
Operating temperature	−30 °C to +60 °C
Frequency stability	±0.5 ppm
Dimensions · Weight	53 × 31 × 116 mm · 250 g
Transmitter (ETSI EN 300 086 testing standard)	—
RF power output	VHF 5 W / 1 W · UHF 4 W / 1 W (high / low)
Bandwidth	12.5 kHz
Modulation (4FSK)	7K60FXD (data only) · 7K60FXW (data & voice)

Modulation limiting	±2.5 kHz @ 12.5 kHz · ±5.0 kHz @ 25 kHz
Adjacent channel power	≥ 65 dB
TX — Hum & noise	≥ 45 dB
Spurious emission	≤ −36 dBm (< 1 GHz) · ≤ −30 dBm (> 1 GHz)
Digital vocoder	AMBE+2™
Digital protocol	ETSI-TS 102 361-1 / -2 / -3
Receiver (ETSI EN 300 086 testing standard)	—
Sensitivity	Analog 0.20 µV (5% BER) · Digital 0.25 µV (5% BER)
Adjacent channel selectivity	≥ 55 dB
Intermodulation	≥ 55 dB
Spurious response rejection	≥ 55 dB
Audio response	+1 / −3 dB (0.3–3 kHz)
RX — Hum & noise	≥ 40 dB
Audio output	750 mW with less than 5% distortion
Compatible models	To be confirmed
Certifications	To be confirmed

Notes: specifications are taken from the manufacturer's product documentation supplied for this model. Certifications are listed only where that documentation states them; “To be confirmed” means not yet confirmed, not a claim. No price or minimum order quantity is stated in this datasheet — please send an inquiry for pricing, MOQ and samples. SafePTT supplies radios under its own brand from partner factories.