

UDR-100E & UDR-400E

DMR Portable Radio



Standard Features

- ▶ Operates in DMR Tier II and analogue conventional modes
- ▶ 1024 Channels
- ▶ Available in VHF and UHF frequency bands
- ▶ Clear loudspeaker 1W
- ▶ Graphic LCD (132 x 65 pixel)
- ▶ TX interrupt
- ▶ All/Group/Individual calls
- ▶ Broadcast calls
- ▶ Emergency alert
- ▶ Normal/Priority scan
- ▶ OTA (Stun/Unstun)
- ▶ Vocoder: AMBE+2
- ▶ Short Data Messaging (pre-programmed canned messages)
- ▶ Sellcall signalling
- ▶ IP67
- ▶ 2600 mAh battery

The UDR-100E and UDR-400E offer clear and loud voice communication, as well as short data messaging with transmit (TX) interrupt. They comply with IP67 standards for waterproofing.

These digital portable radios can operate across multiple modes, including analogue conventional and digital conventional (DMR Tier II).

The radios provide a cost-effective and flexible migration path for organizations transitioning from analogue to DMR digital.



General Specification

Frequency bands	UDR-100E VHF 136-174MHz	UDR-400E UHF 400-470MHz
Channel spacing	12.5 kHz 25 kHz	
Operating voltage	7.5V	
Frequency Stability	±1ppm	
Weight	approx. 275g (w/ standard antenna & battery)	
Dimensions (HxWxD)	102.4 x 53 x 36.5mm (w/ standard battery)	
Antenna Impedance	50 ohm	
Battery*	2600mAh (Li-Ion) 17 hours battery life (@5:5:90)	
Operating temperature	-20°C ~ +55°C	

Transmitter

RF Power Output	UDR-100E VHF High: Up to 5W Low: Up to 2W	UDR-400E UHF High: Up to 4W Low: Up to 2W
4FSK Digital Modulation	12.5kHz: 7K60FXD (Data Only) 12.5kHz: 7K60FXW (Data & Voice)	
FM Modulation	11K0F3E @ 12.5kHz	
FM Deviation	± 2.5KHz @ 12.5 kHz ±5 kHz @ 25 kHz	
FM Hum and Noise	40dB @ 12.5kHz	
Audio Response	+1 ~ -3dB	
Audio Distortion	<5%	
Digital Vocoder type	AMBE+2	

Receiver

Sensitivity	0.22µV/ BER 5%
Selectivity	60dB @ 12.5kHz
Intermodulation	70dB @ 12.5kHz
Spurious Response Rejection	70dB @ 12.5kHz
Audio Power Output	1W
Audio Distortion	≤3%

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ANALOGUE

*Battery performance is dependant on temperature and operational configuration. Specifications are based on standard operating conditions. Not all frequency bands are permissible for every market area. See Simoco Wireless Solutions Product Catalogue for a full list of specifications. All specifications are subject to change without prior notice. Simoco Wireless Solutions does not accept liability for any error or omission in this document.