



# NDP650

## DMR Portable Radio

- Easy to carry with stylish design
- Cost-effective with good quality
- Dual mode (analog & digital) for smooth migration
- DMO 2-slot increases call capacity
- User-defined voice annunciation
- For Land and Marine use
- UHF Marine "ON-BOARD" compliant



NOVELRADIO Digital/Analog Radio

NDP650

# NDP650 UHF DMR Portable radio

## KEY FEATURES AND BENEFITS

### • Self-defined Voice Annunciation

The user can directly download voice annunciation of different languages and also zone alert tone to the radio through the PC software based on the actual needs. After powering on, the voice annunciation will automatically switch to the local language.

### • Compact Size with Clear and Loud Voice

The application of 1W high-power loudspeaker and the technology of advanced digital voice encoding as well as forward error correction make it possible for the user to hear clear and loud voice even in the noisy environment.

### • Improved Call Capacity with DMO 2-slot.

The feature of DMO 2-slot realizes two group calls on the same frequency at the same time in Direct Mode. The call capacity can be increased without having to apply for additional frequency, thus greatly helping the user to save the cost.

### • Smooth Transition and Compatibility with Both Analog and Digital Mode

It supports both digital and analog mode, so the user can go on using the existing analog radio to talk to NDP650.

### • Longer Operation Duration

TDMA technology and power-saving feature enable the battery to work longer. NDP650 with standard 2000mAh battery can perform for 16 hours to meet the user's demands on longer operation.

### • ARC 40-bit Encryption Guarantees Safe Communication

It supports ARC 40-bit encryption, which guarantees communication safety and prevent from being eavesdropped.

### • Various Digital Signaling

It supports features such as Radio Check, Call Alert, Stun/Revive, Radio Kill, and Remote Monitor, which make radio management easy.

### • Emergency call, Lone Worker and Man Down (optional).

It supports features including Emergency Call, Lone Worker and Man Down to guarantee user's safety at all times.

### • Pseudo Trunk

This feature can improve frequency efficiency by allocating the free slot to a member and helps you to communicate timely in an emergency.

### • UHF marine "ON-BOARD" compliant according to: EN 300 720 V2.1.1 (2017-1) and EN 60945:2002

## SPECIFICATIONS

### General

Frequency Range	136-174MHz, <b>400-470MHz</b> , 400-520MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25KHz/12.5KHz(Analog) 12.5KHz(Digital)
Operating Temperature	-30°C ~ +60°C
Operating Voltage	7.5V DC $\pm$ 20%
Battery	2000mAh Li-ion
Dimension (with battery, without antenna)	116mm*54mm*31mm
Weight (with battery and antenna)	275g

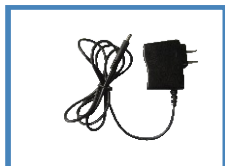
### Transmitter

RF Power Output for Land use	5W/1W(VHF) 4W/1W(UHF)
RF Power Output for Marine use	2W/1W (UHF)
Frequency Stability	$\pm$ 2.5 ppm
Frequency Modulation	16K $\phi$ F3E/11K $\phi$ F3E(Analog) 4FSK(Digital)
Antenna Impedance	50 $\Omega$
Modulation Limiting	$\pm$ 2.5KHz @12.5KHz, $\pm$ 5KHz@25KHz
Radiated Spurious Emission	-36dBm < 1GHz, -30dBm > 1GHz
Adjacent Channel Power	60dB@12.5KHz, 70dB@25KHz
FM Noise	40dB@12.5KHz, 45dB@25KHz
Modulation Distortion	$\leq$ 3%
Audio Response	+1~-3dB
Digital Protocol	ETSI TS 102 361-1,-2,-3
Digital Vocoder Type	ABME+2™

### Receiver

Frequency Stability	$\pm$ 2.5 ppm
Sensitivity	0.25 $\mu$ v@12dB SINAD, -119dBm@5%BER
Adjacent Channel Selectivity	-60dB@12.5KHz, -70dB@25KHz
Intermodulation	-65dB
Spurious Response Rejection	70dB
Rated Audio Output	1W@16 $\Omega$
Hum and Noise	-40dB@12.5KHz, -45dB@25KHz
Rated Audio Distortion	$\leq$ 3% (typically)
Audio Response	+1~-3dB
Conducted Spurious Emission block	-57dBm@<1GHz, -47dBm@>1GHz 84dB

## STANDARD ACCESSORIES



KTC31C1



KBC760Q



KB760B



KBJ17



AS653



KME016 (Optional)



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