

# N80R

## Relay Radio

N80R is a wireless interconnection technology that provides narrowband self-grouping multi-hop links through cascading mode to achieve a wide range of voice coverage. It is a portable automatic networking communication equipment that can be used in all-weather and all-terrain conditions. Its compact structure design, the implementation of IP66 dust and waterproof standards, suitable for tunnels, subways, multi-layer underground, floor barrier and other reasons due to occlusion, shielding and other network blind area environment.



FRS/GMRS/RMR446

**RATED  
IP66**

NAVARRETE COMUNICACIONES SPA

## Characteristic

- Chain networking mode
- Tree networking mode
- UHF full band
- Group call mode
- 16 speed channel selector
- MIC gain setting
- Encryption Settings
- Voice broadcast
- Low battery reminder
- Standard K header interface
- Single call mode
- Dedicated writing frequency software
- Mesh networking mode
- AD hoc switch
- Digital noise reduction
- Multicolor LED
- Infinite volume selector
- SPA gain setting
- Alarm setting
- Voice signal
- Boot prompt
- Device ID

## Main function

- **Large speaker, clear sound quality**  
36mm large size, 1W high-power speaker, through the best proportion of the sound cavity, and anti-shock plastic structure, to ensure that the sound is clear, loud, fast and clear speaker; Make it easy to keep your communication open.
- **Own trunk, self-group networking**  
Using the same frequency band communication, wireless interconnection, automatic diffusion networking mode, to achieve one-key power on automatic networking. It also supports various networking modes, such as 32-level chain networking, mesh networking, and tree networking, providing flexible deployment.
- **Single call group call, flexible application**  
The machine can store 16 groups of channels, each channel can be freely edited into group call or single call mode through programming software. Group call ID up to 254 groups, flexible application; A single call ID consists of six digits or English characters to ensure uniqueness.
- **Large speaker, clear sound quality**  
36mm large size, 1W high-power speaker, through the best proportion of the sound cavity, and anti-shock plastic structure, to ensure that the sound is clear, loud, fast and clear speaker; Make it easy to keep your communication open.
- **Long standby, longer use**  
Standard 7.4V 3200mAh battery; Working time up to 36 hours, standby up to 6 days, longer use time can well meet the user's long-term communication needs. Another optional 1800mAh battery, 12 hours of working time, standby for 3 days, to meet the communication frequency of low group.
- **Waterproof structure, stable and reliable**  
The body has multiple waterproof rings, the headphone cover is fixed with screws, and the waterproof and dustproof level reaches IP66; Quality test items include drop, high and low temperature, humidity, dust, vibration; In the busy work, the product can still be used normally if accidentally dropped or soaked.
- **Professional design, excellent feel**  
According to the ergonomic design, frosted texture, two-color injection molding body, pressure and wear resistance; The machine is lightweight, including the standard battery machine thickness is only 27mm, the weight is only 235g.



## User scenario

By fully considering industries that may be working in the network's dead zone, the N80R has been given comprehensive features and a durable design, hoping to meet the needs of more users.



hotel



transportation



education



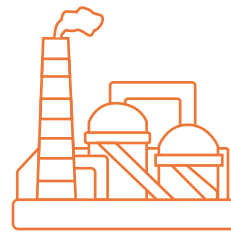
a housing estate



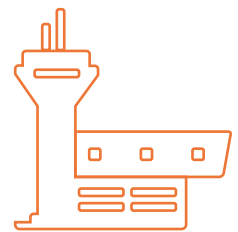
warehouse



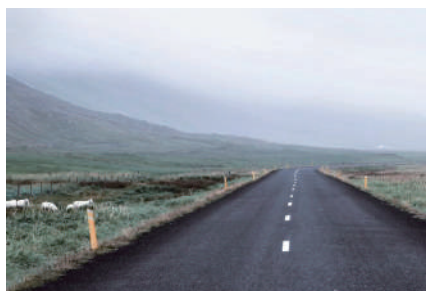
hospital



plant

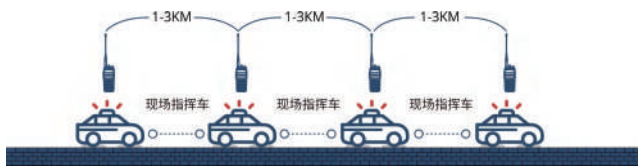


airport

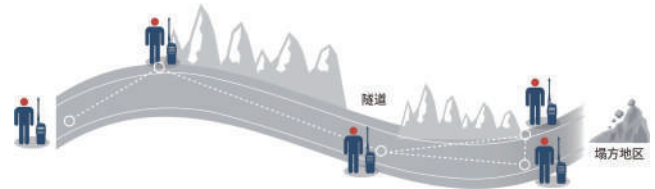


# | Application scenarios

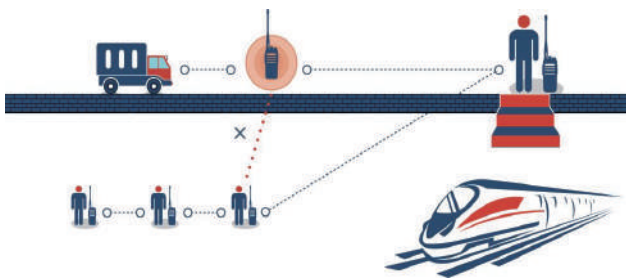
- Fleet support



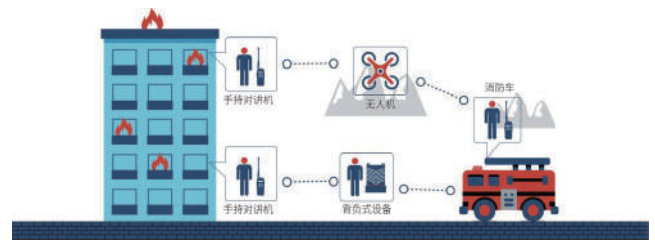
- Tunnel rush repair



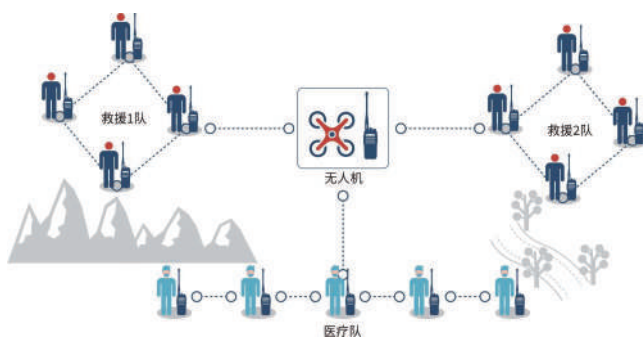
- Subway emergency



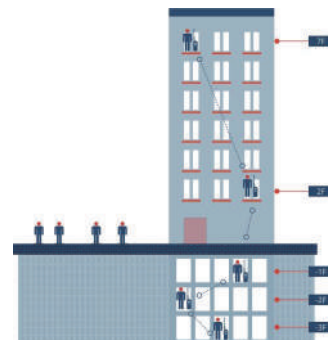
- Fire emergency light



- Do rescue and relief work



- Building cover



# Product presentation

Simple and ergonomic design, easy to carry, easy to operate, durable battery life, even long time use also feel relaxed and comfortable.



## Product accessories

Choose from accessories designed, tested and certified for N80R performance. However, in order to ensure the effectiveness of use, we recommend the use of Topeng recommended accessories.

### Standard fittings



TBL02



TBC06



TAT14



TCL01



TST01

### Optional accessory



TBL01



TBC01



TCA02



TCA03



TPC06



TPC02



TMC01



TAT01



TCL02



TPM01



TEM08



TEM09

## Product standard

### General requirements

Frequency domain	400-480MHz
Output power	high 5W/under 2W
Number of channel	16
Communication standard	TP Digital system
Channel spacing	25/12.5 KHz
Working voltage	DC7.4V
Battery capacity	Standard 3200mAh/Match1800mAh
Weight	235g
Boundary dimension	115x56x27 (mm)
Antenna impedance	50Ω
Support transfer series	Lv.32

### Receiving unit

Sensitivity	0.25/0.28μV
Intermodulation	55dB
Hum and noise	40dB@12.5KHz 45dB@25KHz
Adjacent channel selectivity	60dB
SNR(Signal to Noise Ratio)	≥40dB/34dB
Rated audio output	1W
Rated audio distortion	≤5%
Acoustic frequency response	+1~-3dB
Spurious response suppressio	55dBm

Radiating portion	
Clutter and harmonics	≤-40dBm
Audio distortion	≤5%
Modulation system	16K0F3E/8K0P3E
Residential FM	≥37dB/34dB

Qualification	
Conformity Certificate of Explosion-Proof	ZJEx23.0431
Dustproof and waterproof	IP66

The above specifications are tested according to applicable standards. Due to the continuous development of technology, the above index data is subject to change without notice.

Environmental Index					
MIL-STD	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temperature Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I, II
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV

NO WARRANTY

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