

# PT8100

FM VHF/UHF Mobile Radio

**KIRISUN**

## Main Functions:

- Built-in 2-Tone / DTMF / 5-Tone
- Call Transfer / Call Back
- Repeater / Talk Around
- Remote Kill/Stun/Activate/Revive
- Power-on Self-inspection
- Lone Work & Security Check
- PTT ID and Contact list
- 14 Segments LCD
- Repeater/Talk Around
- Busy Channel Lockout (BCLO)
- Time-out Timer (TOT)
- Hook scan function
- Dual home channels
- Wired Clone
- External out for Horn Drive
- 4W Front-mounted Speaker
- Upgradeable Software
- FCS



FC CE !

ISO9001: 2008 Accredited Designer & Manufacturer

Manufactured by Shenzhen Kirisun Electronics Co. Ltd.

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# PT8100

## KIRISUN Your smart choice

### Special Features:

#### • 256 Memory Channels

With 256 channels can be separated into 16 memory banks, user can quickly access pre-programmed contingency frequency plans ideal for regional-wide, cross-municipality communications!

#### • Embedded Radio Information

By programming software, user could get the embedded information in the radio, such as serial number, MCU software and hardware version, last programmed method and time. The radio could save public and private embedded message or welcome message for dealer and user's easy-to-recognize.

#### • Different Version with Higher or Lower Power

To provide longer communication distance or less power consumption, PT-8100 series mobile radio provides different version with higher and lower power.

#### • PLL Steps

2.5 kHz, 5 kHz and 6.25 kHz could be used for channel frequency assignment for greater efficiency in frequency resources.

#### • 5 Programmable keys

Up to 5 programmable keys could be set as different functions by hold or press on it.

#### • 16 Personal Templates for Channel Settings

To provide personalized communication and adapt to different applications, up to 16 personal templates could be selected for channel settings. In each template, there are many different features could be switched on or off. Such as VOX, TX conditions, Call Codes, and so on.

#### • Full Built-in Tone-signaling

All tone-signaling encoder/decoder are built-in such as CTCSS, DCS, DTMF, 2-Tone or 5-Tone. A wide variety of selective calling systems are available to call specific station or control a repeater.

#### • Versatile Scanning Features

Up to 16 scan templates for each channel allows different scan list for convenient administration in large work group. PT8100 series offers both normal and priority scan modes. Most parameters in scan could be customized.

#### • Personalized Alert Tone

Different alert sound can be customized; users only need to input different sound frequencies in the software.

#### • Lone Work & Security Check

The radio enters emergency mode if the user does not respond to a warning call (Lone Work) or a inquire code (Security Check), adding security and safety for individuals who work remotely and alone. The reset of lone work status can be by simply pressing on programmed key.

#### • Remote Kill/Stun/Activate/Revive

If the radio is killed or stunned, all attempts on operation by user, except power on/off, will be ignored. The radio will be activated or revived only when it receives the correct code.

#### • Multiple Emergency Calls

The radio can be programmed to different kinds of sound emergency call, when the emergency siren is enabled, the radio will transmit emergency ANI or sound continuously.

#### • Flexible Call Operations

To achieve more efficiency in dispatch situations, the missed call could be transferred to a preprogrammed portable radio or directly call back from a temporarily saved directory. With support of signaling, several kinds of call mode are available, individual call, group call and call all fully meet various demands.

#### • Call Authorization

The radio could be programmed as TX forbidden, TX on authorized or TX allowed to be used in different position in group.

#### • Optional Selection Tone (OST)

The radio can be programmed to temporarily select CTCSS/DCS by one preprogrammed key.

#### • Password Protection

The reading and programming on radio data can be protected by a password to ensure the security and prevent data reveal.

#### • Meet MIL-STD 810 C/D/E/F

PT8100 is designed to meet MIL-STD 810 C/D/E/F specifications covering physical and temperature shock, vibration, low pressure, and solar radiation.

#### • Key lock

When this function is enabled, any operations on the key will be ignored. This helps to prevent the undesired operations caused by carelessness.

#### • Lowest Volume Audibility

To prevent missing of any voice message caused by the mute operation on independent volume knob, PT-8100 offered the option to limit the lowest volume to be an audible level.

#### • Power-on Self-inspection

Power-on of radio will be stopped automatically if there are any damages on radio's data or hardware.

#### • High/Middle/Low Power Switch

In each channel, RF power could be selected for different applications in programming software or manually by utilities menu.

#### • Ignition Switch

The radio could be set to be switched on with the ignition of car or manually for different applications.

### SPECIFICATIONS

#### General

Frequency Range	66-88MHz , 136~174MHz , 438~490MHz 400~450MHz , 470~512MHz
Channel Capacity	256
Channel Spacing	12.5KHz/25KHz
Frequency Stability	2.5ppm
Operating temperature	-25°C ~ + 55°C
Operating voltage	13.6V DC ± 20%
Dimension(H×W×D)	150mm×131mm×43mm
Weight	1310g

#### Transmitter

RF Power	5W/10W/25W
Frequency modulation	16K φ F3E/11K φ F3E
Antenna Impedance	50 Ω
Modulation Limiting	± 2.5KHz@12.5KHz ± 5KHz@25KHz
Modulation Distortion	< 5%
Radiated Spurious Emission	-36dBm < 1GHz / -30dBm > 1GHz
FM Noise	-40dB @ 25KHz / -35dB @ 12.5KHz
Adjacent Channel Power	-60dB @ 12.5KHz / -70dB @ 25KHz

#### Receiver

Reference Sensitivity	0.28 μV @ 12.5KHz 0.25 μV @ 25KHz typical
Operating Bandwidth	W ≥ ± 7 N ≥ ± 3.5
First IF of Receiver	49.95
Second IF of Receiver	450
Adjacent channel Selectivity	65dB @ 12.5KHz 75dB @ 25KHz
Intermodulation Rejection	65 dB
Spurious Response Rejection	70 dB
Rated Audio Power	4W
Rated Audio Distortion	< 5%
FM Hum&Noise	40/35

### Standard Accessories:



KME-215  
Speaker-Microphone



Mounting bracket



DC power cable



Antenna

### Optional Accessories:



KSPL-U05  
Programming cable



KSPL-05  
Programming cable

**NOTICE:** The specifications may be subject to change without notice due to advancement in technology, for more detailed information, please contact Shenzhen KIRISUN Electronics Co., Ltd.

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