

Definitions and Abbreviations

Definitions:

1. **Auto Roaming**: If a radio set is programmed to auto-roaming feature, and the radio set is moving within the proximity of multiple repeaters at varying distance. The radio set will automatically tune to the strongest signal provided by nearest repeater. If the radio set is static then auto-roaming has no role.
2. **Continuous Tone Coded Squelch System(CTCSS)**: CTCSS is one type of in-band signaling that is used to reduce the annoyance of listening to other users on a shared two-way radio communication channel. It is sometimes referred to as tone squelch.
3. **Talk Around Mode**: Radio A and Radio B, the distance of they two is a little far and not within the range of the hand-held radio, they have to connect through the repeater. But both A and B are moving to the same place, their distances will become closer and closer so that they can be called without the repeater.

Then the two radios continue to separate, farther and farther apart, they can only continue to connect through a repeater. In order not to occupy the repeater resources, we suggest using the simplex mode or double slot mode when the distance is close enough. This not only saves the repeater resources but also makes the conversation more private without repeater forwarding. HD1 supports switching repeater mode and simplex mode in one channel, there have an option in channel setting—Default to Talk-around.

4. **Dual Tone Multi-Frequency (DTMF)**: Dual tone multi-frequency (DTMF) is the sounds or tones generated by a telephone when the numbers are pressed. These tones are transmitted with the voice channel. DTMF is used to control automated equipment and signal user intent, such as the number they wish to dial.

Abbreviations:

| | |
|----------------|--------------------------------------|
| TOT: | Time Out Timer |
| GPS: | Global Positioning System |
| GIS: | Geographic Information System |
| PTT: | Press to Talk |
| DTMF: | Dual tone multi-frequency |
| CTCSS: | Continuous Tone Coded Squelch System |
| PTT ID: | Push-To-Talk ID |
| ANI: | Automatic Number Identification |
| LCD: | Liquid-crystal display |