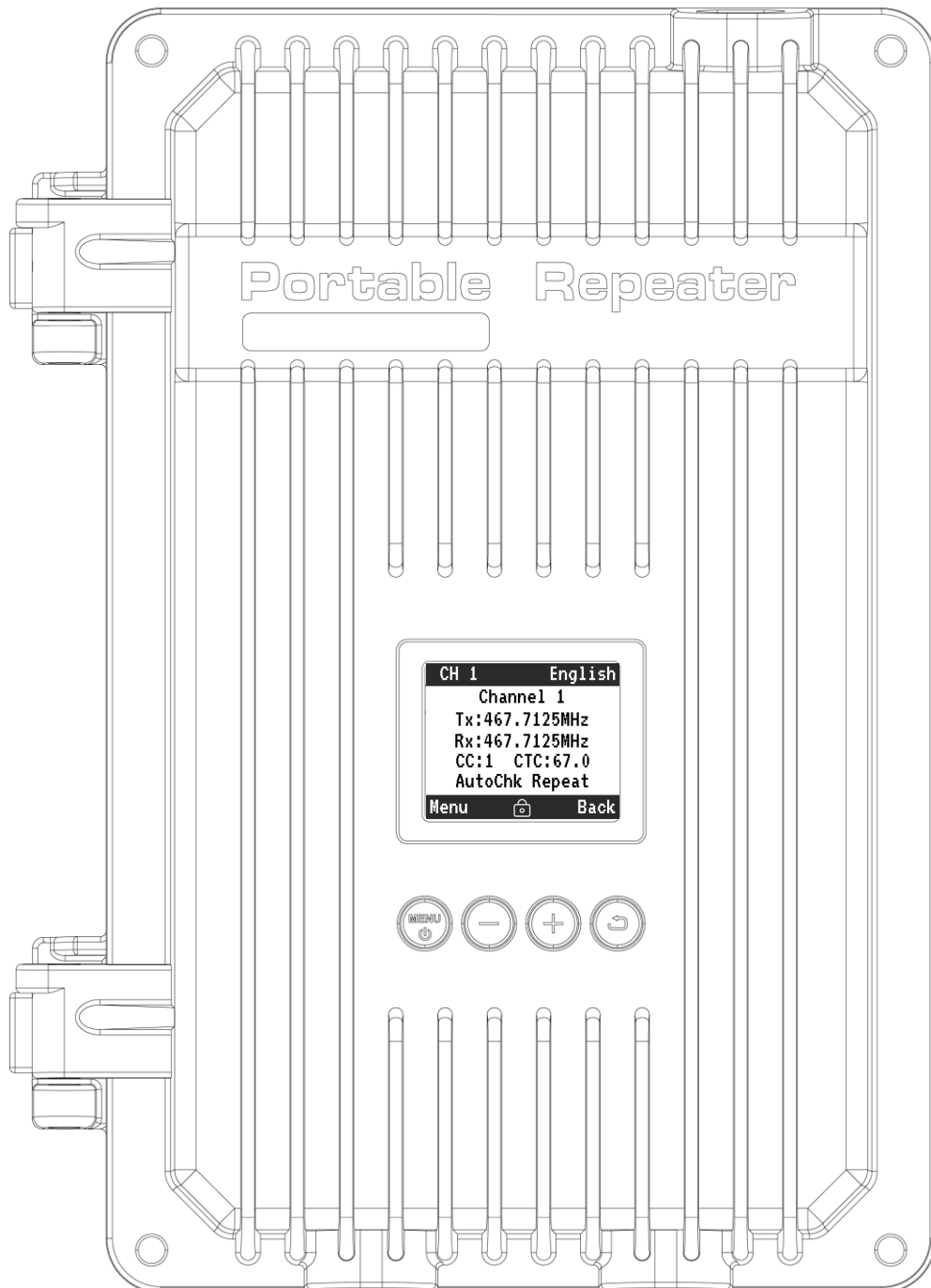


Smart Analog/Digital Repeater

REPT01

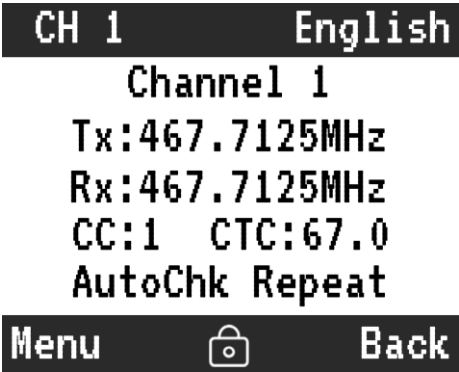
User Manual



1. Introduction

This smart repeater is designed to extend the communication range of your two-way radios. It features 20 programmable channels and Auto-Check (AutoChk) technology, which automatically detects and forwards both Analog and Digital signals.

2. Interface & Display



LCD Screen Overview:

The main screen displays the current channel and operating parameters.

- **CH XX:** Indicates the current Channel Number (1–20).
- **Tx:** Transmit Frequency (Downlink). This is the frequency your radio receives.
- **Rx:** Receive Frequency (Uplink). This is the frequency your radio transmits.
- **CC:** Color Code (0–15). Active only for Digital signals.
- **CTC:** CTCSS/CDCSS (1-121). Active only for Analog signals.
- **AutoChk Repeat:** Indicates the device is in smart detection mode.

3.Button Functions

Button	Function in Standby	Function in Menu
MENU	Enter Settings	Select / Confirm item
UP	Next Channel	Increase value
DOWN	Previous Channel	Decrease value
BACK	Unlock Keypad	Exit / Cancel

4. Operation Guide

4.1 Switching Channels

In standby mode, press the **[menu]** and then press the **[+]** or **[-]** buttons to cycle through the 20 pre-set channels. The screen will update to show the frequencies for the selected channel.

4.2 Programming Parameters

To customize the frequency, Color Code, or CTCSS tone for the current channel:

1. **Enter Menu:** Press the **[MENU]** button. The first editable item (Tx) will highlight.
2. **Select Item:** Press **[MENU]** repeatedly to scroll through the parameters:
 - Tx (Transmit Frequency)
 - Rx (Receive Frequency)
 - CC (Digital Color Code)
 - CTC (Analog Tone)
3. **Adjust Value:** When the desired item is highlighted, press **[+]** or **[-]** to change the value.
4. **Save & Exit:** Press **[BACK]** to save your changes and return to the main screen.

5. "AutoChk" Mode Explained

This repeater supports mixed-mode operation. You do not need to manually switch between Analog and Digital modes.

- **Digital Mode:** If a digital signal matches the Rx frequency and **Color Code (CC)**, the repeater forwards it digitally.
- **Analog Mode:** If an analog signal matches the Rx frequency and **CTCSS (CTC)**, the repeater forwards it as an analog signal.

> Note: Please ensure your portable radios are programmed with the matching Frequencies, Color Codes, or CTCSS tones.

FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 117.5 mm between the radiator & body.