



# Midian's PR-10

## PR-10 Paging Regenerator

Midian's PR-10 is a simplex store and forward repeater (aka simplex or parrot) and paging regenerator that supports retransmitting of both tone and voice, similar to the discontinued Zetron Model 19.

### Simplex Repeater Mode:

The PR-10 can be connected to a simplex mobile or base station to create a simplex store and forward repeater. When the PR-10 sees a busy indication from the connected radio it will start recording the received audio. When the busy indication goes away for a programmed amount of time, the PR-10 will key the radio and retransmit the recorded audio. The following are applications for the PR-10 as a simplex repeater:

- Expand radio coverage into remote locations, tunnels, buildings (hospitals, campuses, etc), downtown areas and more.
- Evaluate potential radio site or coverage problems by connecting the PR-10 to a mobile radio. A technician can then drive through the desired coverage area, key up and transmit voice, unkey and listen to the repeated audio quality.

### Selective Repeat Mode:

The PR-10 has a tone decoder on the board that can be programmed to decode 2-Tone, DTMF, 5-Tone or Pulse Tone (1500 Hz or 2805 Hz for HEAR Systems). When the tone decoder decodes the programmed sequence(s) it will give a validate output to the PR-10. The validate confirms that the PR-10 should repeat the incoming audio. The tones will also be retransmitted. The following are applications for the PR-10 as a selective simplex repeater:

- Regenerate 2-tone or DTMF pages for fire departments into remote areas or buildings with poor coverage.
- Regenerate Pulse Tone pages from ambulances in remote areas with poor coverage to hospitals (HEAR Systems).

### Announcement Mode:

The PR-10 can be programmed to repeat the last received audio message continuously at programmable intervals, applications include:

- Broadcasts for road or weather conditions
- Aviation authority broadcasts for pilot information (ATIS – Automatic Terminal Information Service)

