

Figaro Theatre Display-Beta Site Test Description

System Description

The Figaro theatre display is a portable, battery operated, wireless RF unit which can display up to 3 lines x 50 characters of text or 3 lines x 18 ideograms (such as Chinese or Japanese) on a graphics based LCD display. The design purpose of the display is for language translations and visual choreography during a live theatre performance, especially for the opera. The unit also finds application as an aid to the hearing impaired in live performances, presentations or recorded (movie) theatre.

A single transmitter and multiple receivers operate in simplex mode on one of 8 selectable channels in the 902-928 Mhz ISM band. The data modulation scheme is FSK and the data symbol rate is 9600 baud. The transmitter sends 1mW of power to an omni-directional 1/4 wavelength antenna. The RF transmitter and the RF receiver modules integrated into the display unit are purchased prepackaged devices from Linx Technologies Inc, Grants Pass, Oregon. Our testing indicates the range of the RF unit is 500' max., line of sight in an open parking lot at a sensitivity of -95dBm. Inside our engineering building, line of sight range is 300' max.

Beta Sites

A single transmitter and 10 receiver units will be installed in the McCarter Theatre, Princeton, New Jersey for system testing in a live theatre performance. The approximate period of the test is June 12th, 2000 through July 30th, 2000.

A second beta site test using the same equipment will be conducted at the Santa Fe Opera, Santa Fe, New Mexico sometime (TBD) in August, 2000.

Other tests may be conducted as determined by the results of these two sites.