

BUSHNELL *SPEEDSTER* OPERATIONAL DESCRIPTION

1. UNIT DESCRIPTION –Bushnell SpeedSTER is a one piece, battery powered speed monitoring, doppler radar device that can discriminate an objects speed. The transmitter, receiver and antenna are integral to the unit. The receiver is a two-channel I/Q quadrature output. The unit transmits in the K band at 24.150 GHz +/- .1GHZ. The transmitter is a Gunn diode cavity stabilized, Continuous Wave oscillator. All received signals are digitally processed and converted to data for display or storage. Data from the SpeedSTER is digitized, object speed can be displayed and collected for analysis.

2. INTENDED PURPOSE – The SPEEDSTER is designed to be used for monitoring and data logging speed. These data are then used to provide real time visual speed prompts for sports enthusiasts and historical speed data for statistical studies. The SPEEDSTER is to be used only in stationary applications, as it is not capable of processing data while on a moving platform.

3. SETUP – The SPEEDSTER is intended for use by sports enthusiasts wishing to display and track the speed of moving objects such as baseballs. DC power is supplied to the SPEEDSTER by the onboard double a batteries. When power is applied operation is automatic and new data maybe taken by pressing the trigger. All usage is to be performed in a stationary position.