TELEPEN

Capture the future…

TELESCAN 2

Portable Data Capture

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Key Features

- Remote Data Capture
- On-line and Batch Versions
- Ergonomic Design for Ease of Scanning
- Powerful Intuitive Program Generator
- Natural Scanning Position

Introducing Telescan2

Telescan2 is the latest portable data capture unit from SB Electronic Systems. British designed and manufactured, the Telescan2 is available in two versions; radio frequency (on-line) and batch (off-line). The RF version allows the user to roam freely whilst still communicating directly with their source software.

Communication is two-way, therefore enabling not only information to be sent to the PC, but data to be received back by the RF Telescan2. The batch unit communicates with the host PC by means of a serial interface. Typically, this would be used for subsequent uploading of collected information.

The Telescan2 has been designed with the comfort of the user in mind. The unique design allows the laser beam to be triggered from the side of the unit. This ensures that, whilst performing each scan, the wrist movement is minimal, thus reducing the possible effects of repetitive strain injury (RSI).

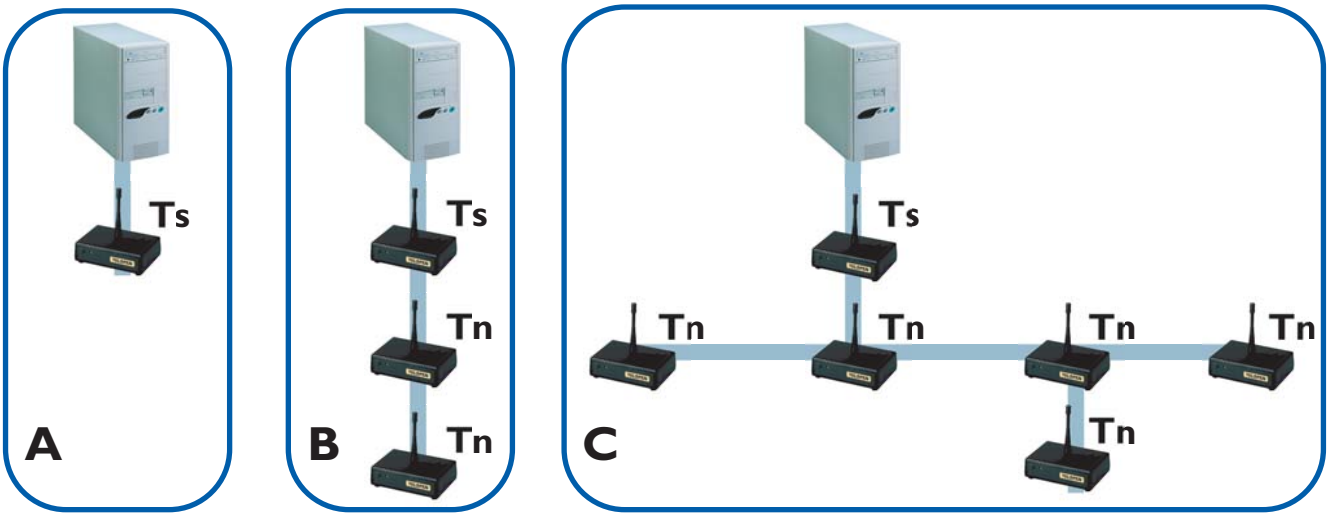
Telescan2 is a robust data acquisition unit with a solid state laser barcode scanner, data memory, real time clock, alpha-numeric keypad and an eight line display. The fast charging nicad batteries will easily provide a full working day under normal conditions. The positive feel keypad has sealed buttons to help prevent dust and damp ingress.

The Telescan2 lends itself to applications in healthcare, warehousing, manufacturing, retailing, libraries, and many other areas.

RF Telescan2

The RF version of Telescan2 utilises an Adcon 868MHz radio module with an internal aerial giving a line of sight range of up to 300 metres. In normal operating conditions a range of 200 metres should be achieved.

The transceiver supplied with the RF version connects to the PC via either a serial or USB interface. The transceiver has two versions; the Standard (Ts) is used for the connection to the PC, the Network (Tn) is then used to extend radio coverage through strategic placement between the Standard transceiver and the operating Telescan2 area. There are a number of different ways to link transceivers to extend coverage:



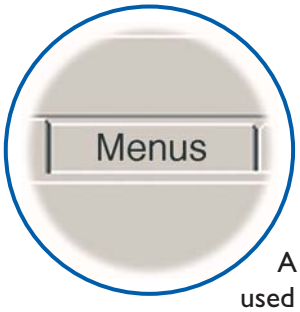
The options above are just some of the ways that a network of transceivers may be constructed – the possibilities are endless. Each network outlined in the examples above could operate side by side in the same physical area, but would be completely independent from each other. A Telescan2 assigned to Network A would not communicate with Network B or C, and vice-versa. However, a Telescan2 assigned to Network C may freely move position within the range of all transceivers belonging to Network C. Structured software ensures that any one item of transmitted data will not be sent twice to the host PC. Each Network may consist of up to eight transceivers, and each network will support up to 72 Telescan2's.

TeleGen Software

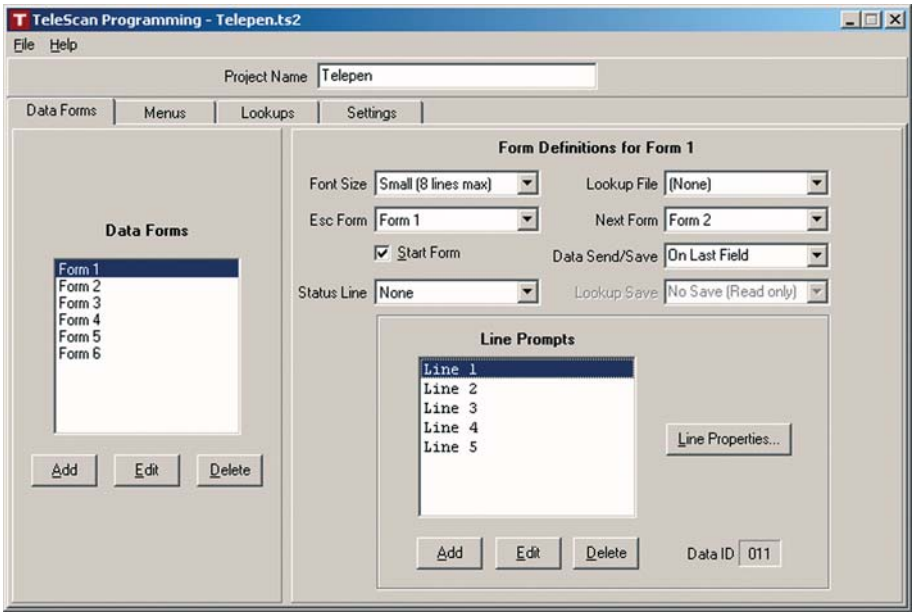
The Telescan2 comes complete with an intuitive application generator program. This versatile program allows the user to easily develop their own powerful data collection program on a PC, and then download the program to the Telescan2 for use. The TeleGen software is simple to use and requires no programming knowledge. After designing your program, simply download it to the Telescan2 via the serial cable, and begin capturing your data. The stored program may also be uploaded back to any PC which has TeleGen installed.

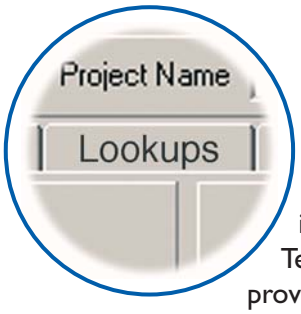
The TeleGen program consists of a number of components:

A Form allows the user to tailor the data collection process to the requirements of their application. Each Line within a Form enables the user to specify a template to check against the collected data. Type and length of data may be checked, and a text 'picture' may be created to validate input. Uniquely, conditional criteria may be set to route the data collection sequence through a feature called Branching.



A Menu may be used to provide a number of options to a user and, dependent on the option selected, move on to a different data collection sequence.





A Lookup database may be downloaded into the Telescan2 to provide lookup data within the program. Therefore, a part number read from a barcode, for example, could result in the description and price of the item being looked up and displayed on the screen. The Lookup database may also be updated from data collected, and then uploaded back to the PC.

Settings enable the user to define items such as the barcode symbologies that are to be read, how the Telescan2 communicates with the PC, and date formats.

The TeleGen application generator will solve most common programming requirements. However, our in-house software team is also available to provide bespoke software support.

Telescan2 Specifications

Radio Communications

Radio Module	Adcon 868MHz
Range	Up to 300 metres line of sight. Up to 200 metres in normal operating conditions.
Transceiver	Self-contained, compact unit with direct connection to PC via serial or USB ports. Standard and Network versions available.
Communications Software	Immediate two way data communications between PC and Telescan2 units. Each Telescan2 unit is allocated to a Network, and will communicate to the host PC via any transceiver in the network

Laser Scanner

Symbologies	All popular symbologies including: Telepen, Code 39, EAN/UPCA, Code 128, Interleaved 2 of 5 and Codabar. Plessey available on request.
Scan Rate	40 per second
Laser Diode	650nM, 3mW output power

Memory & Timing

SRAM	1MB SRAM for Data
Flash	64KB Flash for Program downloadable via RS232 Communications Interface
Real Time Clock	Date & Time may be appended to data.

Keypad & Display

Keypad	Full Alphanumeric capability with ALPHA, ON, OFF, FUNC, BACK SPACE, ESC and ENTER Keys
LCD with Backlight	8 lines of 19 characters (Small Font) or 5 lines of 15 characters (Large Font)

Data Transmission

Connection	To host PC either by radio via transceiver, or direct via RS232 cable.

Battery

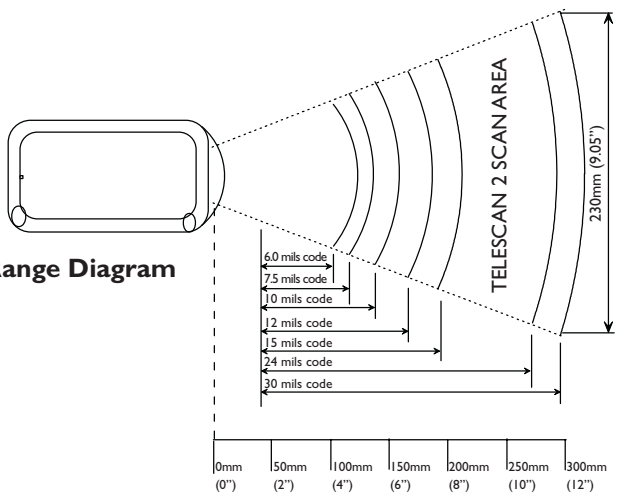
Built-in Intelligent Battery Charger activated by plugging in the Power Lead (UK and Europe). Fast top-up charge and full charge from flat in approximately 2 hours. Full battery charge will last for 18 hours at 1 scan every 30 seconds.

Physical

Dimensions	Length 156mm Width 70 mm (max) Depth 31mm (max).
Weight	RF version 223 grams. Batch version 211 grams.

Environmental

Drop tested	1.2 metres onto concrete.
Operating temperature	-10 deg C to 50 deg C.
Humidity	5% to 95% non-condensing.



Telescan 2 Range Diagram

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Specifications subject to change.