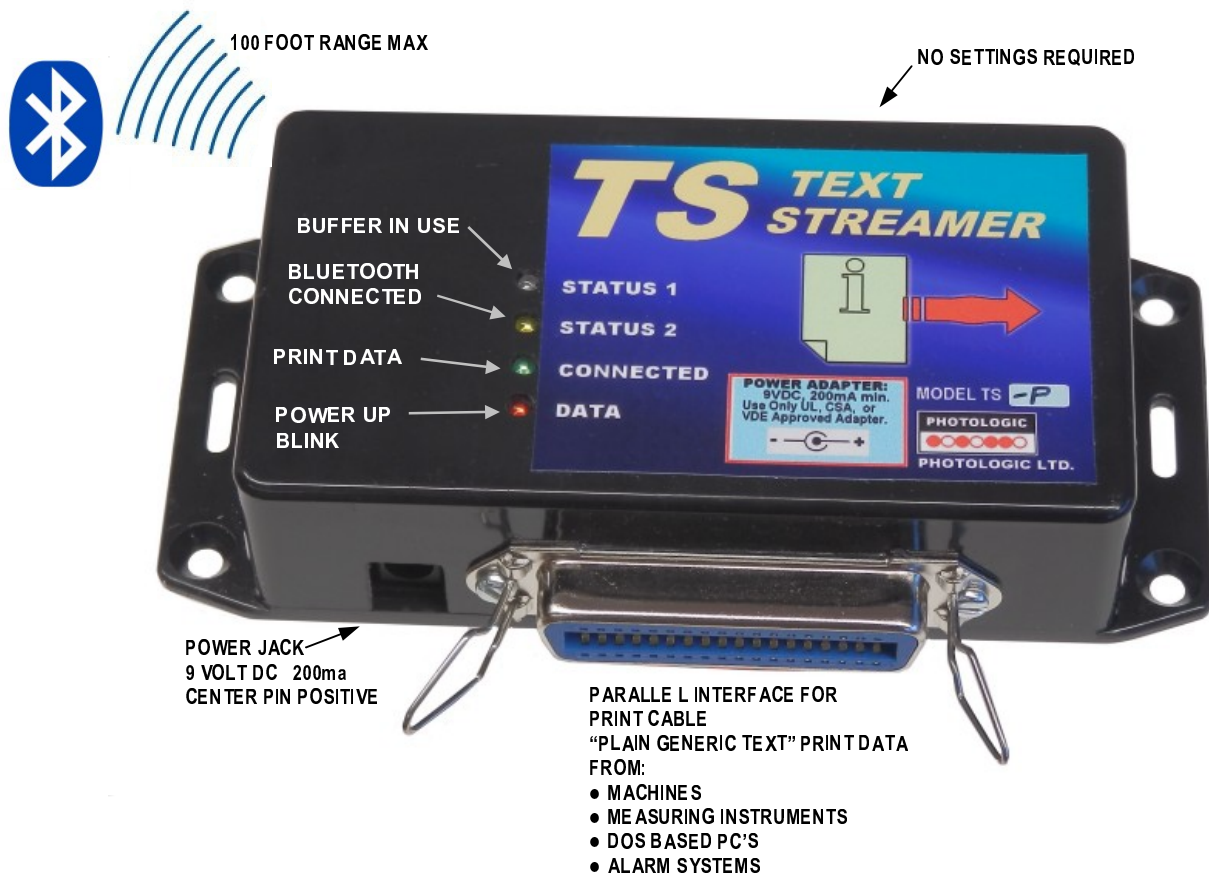


Model TS Text Streamer

Model TS-P (Parallel) accepts plain generic text data from the users parallel print cable and streams it via bluetooth to an Android device.

The Photologic Ltd. supplied TS Android Application displays the text printing as well as automatically saving the data to the Android memory.



- ▶ For eliminating legacy printers that print "plain generic text"
- ▶ Display data on Android device screen (tablet or phone)
- ▶ Auto-Records print data to Android internal memory: `ts_log/ts_log.txt`
- ▶ For continuous 24 hour x 7 day operation

Not compatible to print data that contains graphics, escape sequences, rich text, or special fonts.

Not compatible to replace "GDI" printers.



USING MODEL TS FOR THE FIRST TIME:

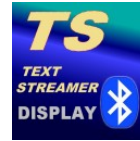
Install the Model TS Application:

file: tstab2.apk

Use Android Device (Phone or Tablet)

- ▶ Android versions 2.2 upwards.
- ▶ Android device must support Bluetooth (e.g. Class 1)
- ▶ Android device SD Memory Card slot is optional for future support.

Icon:



Pair The Bluetooth :

Power up Model TS

On Android device scan for the Model TS bluetooth

The Model TS bluetooth name is marked on the enclosure:



Example Bluetooth name: RNBT-D076

Example:

Android Device > Android Settings > Wireless & Networks > Bluetooth Settings > Scan for devices

Android Device should find the unpaired bluetooth of Model TS

Press the unpaired bluetooth name. Choose "Pair with this device" Example name: RNBT-D076

A passkey number (e.g. 656046) may be displayed but is not important.

After pairing is complete then the message "Paired but not connected" will display.

Exit the settings.

PUTTING MODEL TS ONLINE:

Open Model TS application on Android Device.

In Model TS Settings Choose Auto Connect Setup (This is done just one time so the Android device will know what bluetooth name to connect to when the TS application opens.)

Choose from the drop down list the BT Name of Model TS. e.g. RNBT-D076.

Press 'Save' so that is is written to the Android memory for auto opening next time.

Quit the app using the Model TS Application QUIT button.

Reopen Model TS app, then the bluetooth will attempt to connect automatically to Model TS.

When it connects, then the Yellow LED will come on constant.

A messages will be displayed if connection failed or succeeded.

CONNECTION FAILED?

- ▶ Check that the Android Device Bluetooth turned on:
Android > Settings > Wireless & networks > Bluetooth > Turn on Bluetooth.
- ▶ Check that Model TS is paired on the Android Device
- ▶ Check that the Bluetooth name for your specific Model TS is saved in Model TS Settings (for auto connect).
- ▶ If connection fails, close the app using its QUIT button and reopen.
- ▶ In some cases the Android may have to be completely powered down, then restarted.
- ▶ Another Android device may be currently Bluetooth connected to the Model TS.

TO QUIT CONNECTION:

Use the QUIT button in the Model TS application.

SAVING PRINT DATA TO MEMORY

The Model TS automatically saves print data to Android memory. Every several seconds the file is updated if new data was received. A message is displayed on the screen when this occurs, showing the path.

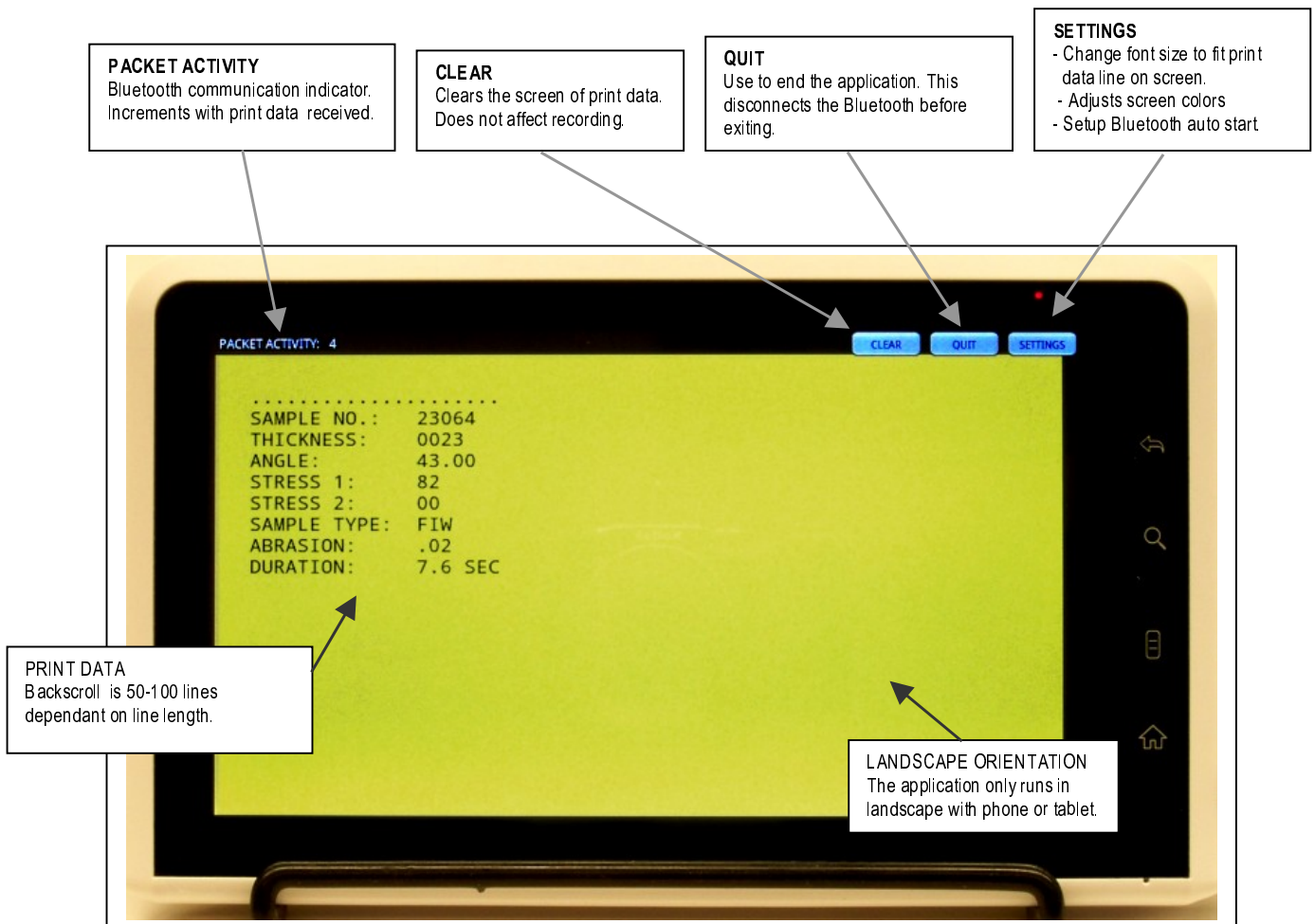
The log file is located in folder **/ts_log** File: **/ts_log.txt**

The user can view the memory file **ts_log.txt** using an Android file explorer such as Explorer or Astro. The file path varies between makes of Android devices and versions of Android OS. Earlier versions of Text Streamer supported External Memory Card with path: **/mnt/sdcard/ts_logts_log.txt** However newer versions of Android OS such as KitKat 4.4 will force the save of the log file to internal memory rather than external memory. Although external memory card storage is preferred by many users, it cannot be easily supported by Photologic Ltd. unless future Android versions greater than 4.4 can accommodate it.

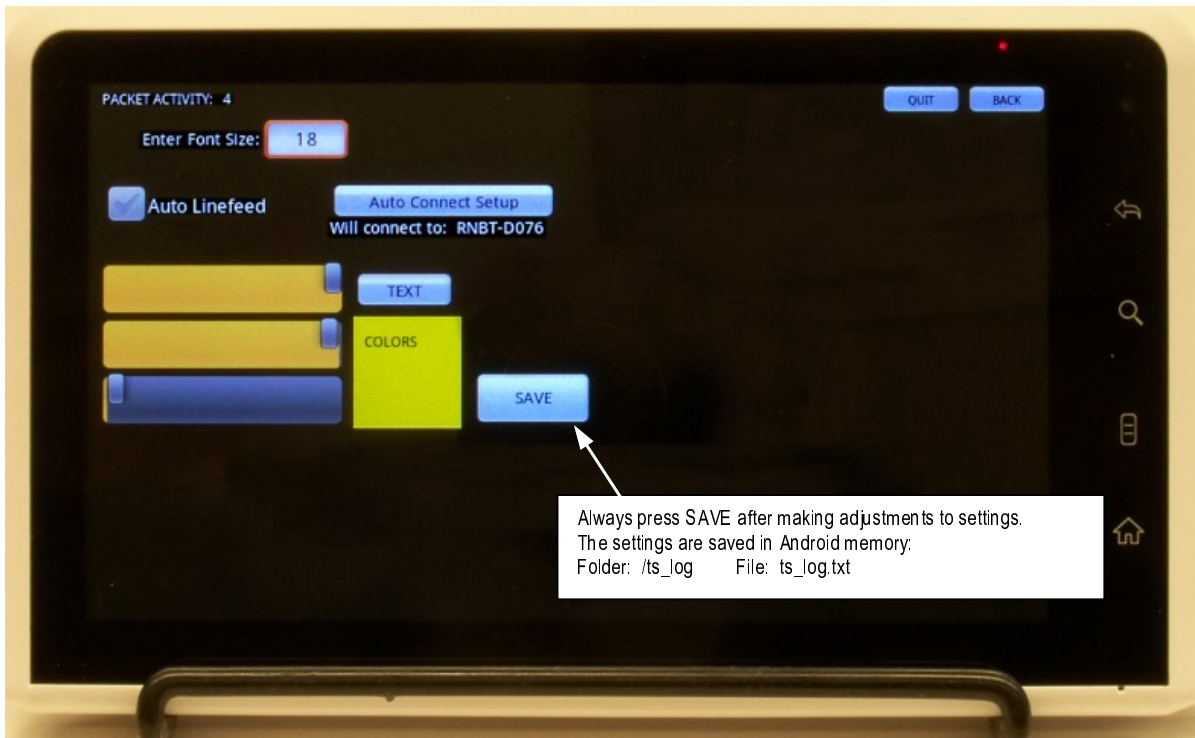
Once the print data is saved in memory, the user can access it by several methods such as :

- ▶ Open the file with another application such as a file explorer (e.g. Astro)
- ▶ Email the file.
- ▶ Transfer the file to a PC folder using the Android device USB cable.
- ▶ Use WiFi file sharing applications so that a PC may be able to access the file.
- ▶ Use Android applications that can transfer files to the cloud where other devices and PC's can access it.

The Settings file for TS Application also resides in Android memory in folder: **ts_settings** File: **settings.txt**
This file contains the font size, screen colors and Bluetooth address that the user has made in SETTINGS screen.



SETTINGS SCREEN:



REFERENCE MATERIAL:

See video demonstration in shipping CD-ROM: *ts_textstreamer.mpg*