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# Data Validation of Lookup Table

## WHY (Reason to Build This Technology)

*In computer science, a lookup table is an array that replaces runtime computation with a simpler array indexing operation. The savings in terms of processing time can be significant, since retrieving a value from memory is often faster than undergoing an "expensive" computation or input/output operation…***excerpts from Wikipedia**

**Lookup table of MS916/MS926:**
This function is to prevent users from entering wrong data by inputting particular barcode to restrict scan results; MS916 lookup table function will only scan desired barcodes which users set up to narrow down the data and make it more accurately.

## HOW (Concept of This Technology)

MS916/MS926, the wireless pocket Laser(MS916) & 2D(MS926) scanner featuring an easy-to-read 1-inch OLED display that allows users to get feedback of the scanned information immediately. This device also delivers Smart Data Mapping Technology which is combined Lookup Table and Data View/Edit Function with Date / Time stamp.
It helps users to ensure data transmitted correctly and it is allowed to check up to 10,000 pre-load barcodes in the memory of Lookup Table that is more flexibility to correct data and tracking scanning schedule immediately.
Please follow below procedure to use lookup table on MS916.
The user manual can be downloaded from :
http://tw.ute.com/products_info.php?pc1=3&pc2=296&rbu=0&pid=1616

Lookup Table Function

Following are Lookup table function information:
■ Format: ASCII text format
■ Items are terminated by CR or CRLF
■ Sorted in 'A' -- 'Z' order automatically
■ File-size limits: less than 256K bytes

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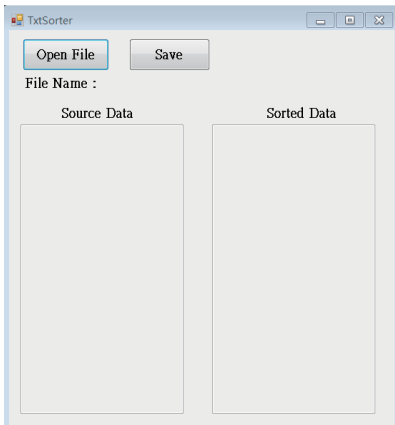
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## Enable / Disable

Please follow the steps to enable/ disable this function.
Main Menu ⟶ Data & Memory ⟶ Data Validation ⟶ Lookup Table ⟶ Set Lookup

## Download Lookup

Please follow the steps to download New Lookup Table or Check Current Lookup Table Name /Size.
1. Main Menu ⟶ Data & Memory ⟶ Data Validation ⟶ Lookup Table
   ⟶ Download Lookup
2. Connect MS916 to your PC with a Micro USB cable.
3. Go to PC device manager to check the COM information, for example; CDC
   USB Demonstration (COM40).
4. Open serial communication tool and select the corresponding COM port
   number, for example; CDC USB Demonstration (COM40).
   And then choose the form you would like to upload.



## Utility for Sorting Data

To download lookup table sorting utility, please click the link below
to go to  MS916 download section.
It will help users to organize data by sorting it with  efficiency.
http://eu.ute.com/products_info.php?pc1=3&pc2=296&rbu=0&pid=1616

# WHAT (Case Study Benefits)

MS916/MS926 comes with BT wireless technology and feature with a 2MB memory. They can even be programmed as a batch scanner with pre-load lookup table in their memory. People can use it to do the inventory check all around the warehouse even no wireless connection link with the host terminal. The scanned date still can be verified immediately by checking pre-load lookup table of MS916, no need to access with host terminal.