

Digital Torque Wrench

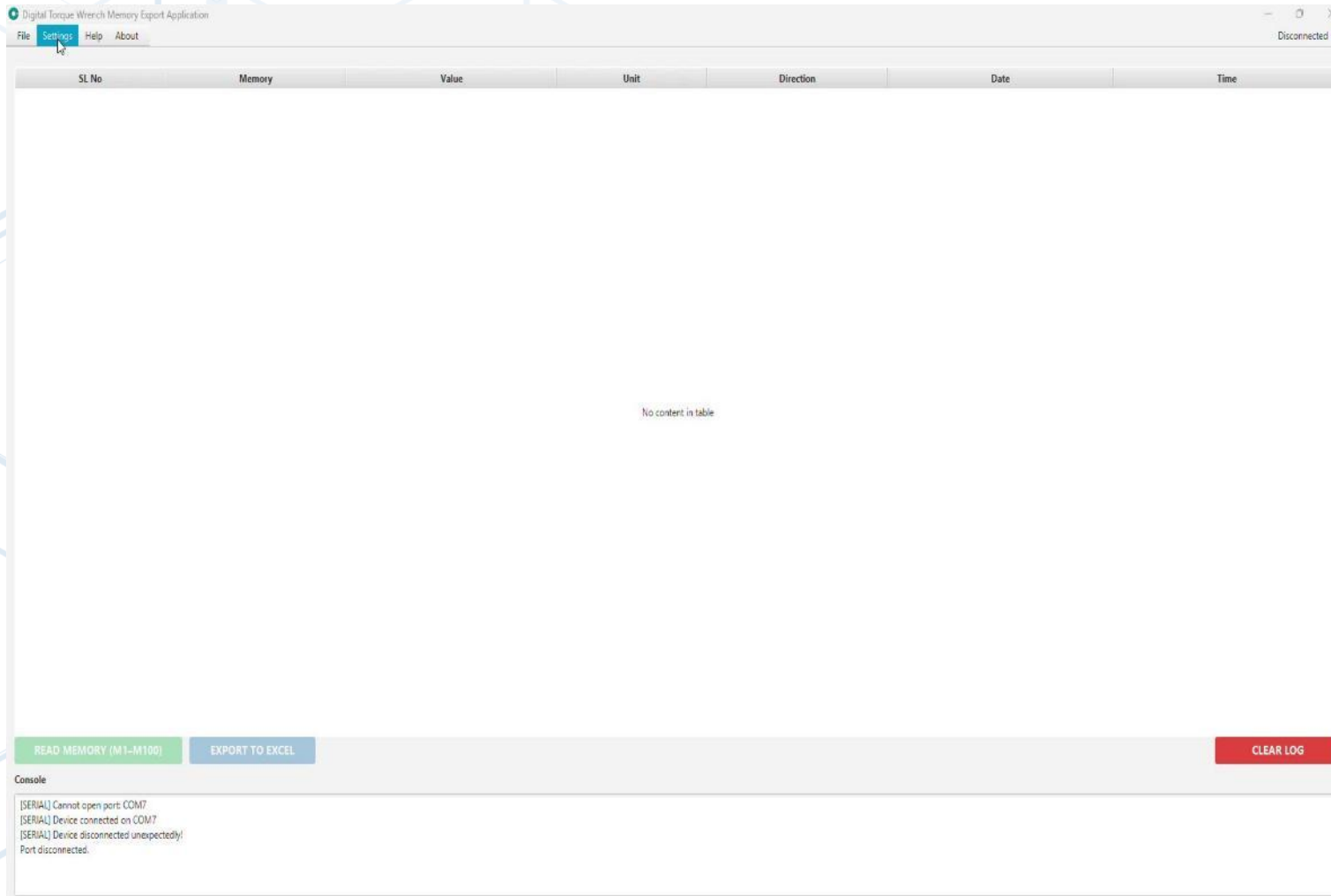
Memory Transfer

Step-by-Step Guide

Complete walkthrough of the Memory Export Application



Step 1 — Launch the Application



MAIN WINDOW OVERVIEW

Title Bar

"Digital Torque Wrench Memory Export Application"

Menu Bar

File | Settings | Help | About

Data Table

Columns: SL No, Memory, Value, Unit, Direction, Date, Time

Bottom Buttons

READ MEMORY (M1-M100) • EXPORT TO EXCEL • CLEAR LOG

Console Panel

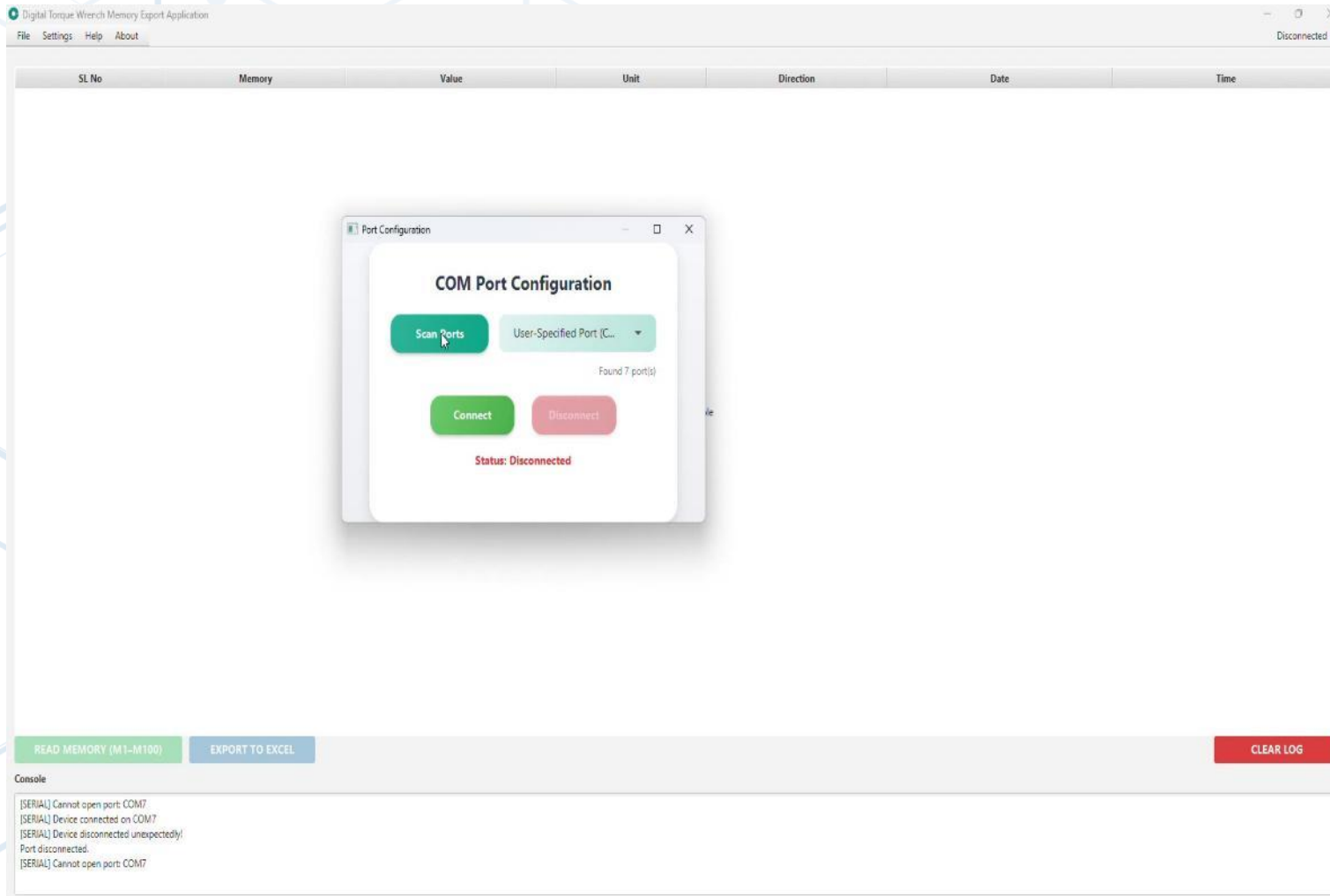
Shows real-time serial communication messages

Connection Status

Top-right: Disconnected (red indicator dot)

Ensure the USB cable is plugged in before launching the application.

Step 2 — Open COM Port Configuration



HOW TO OPEN

Navigate to

Settings ▶ Port Configuration

Scan Ports

Auto-detects all available COM ports on the system

Port Dropdown

Select the correct COM port from the detected list

Found X port(s)

Shows the count of ports detected after scanning

Connect

Initiates serial connection to the device

Disconnect

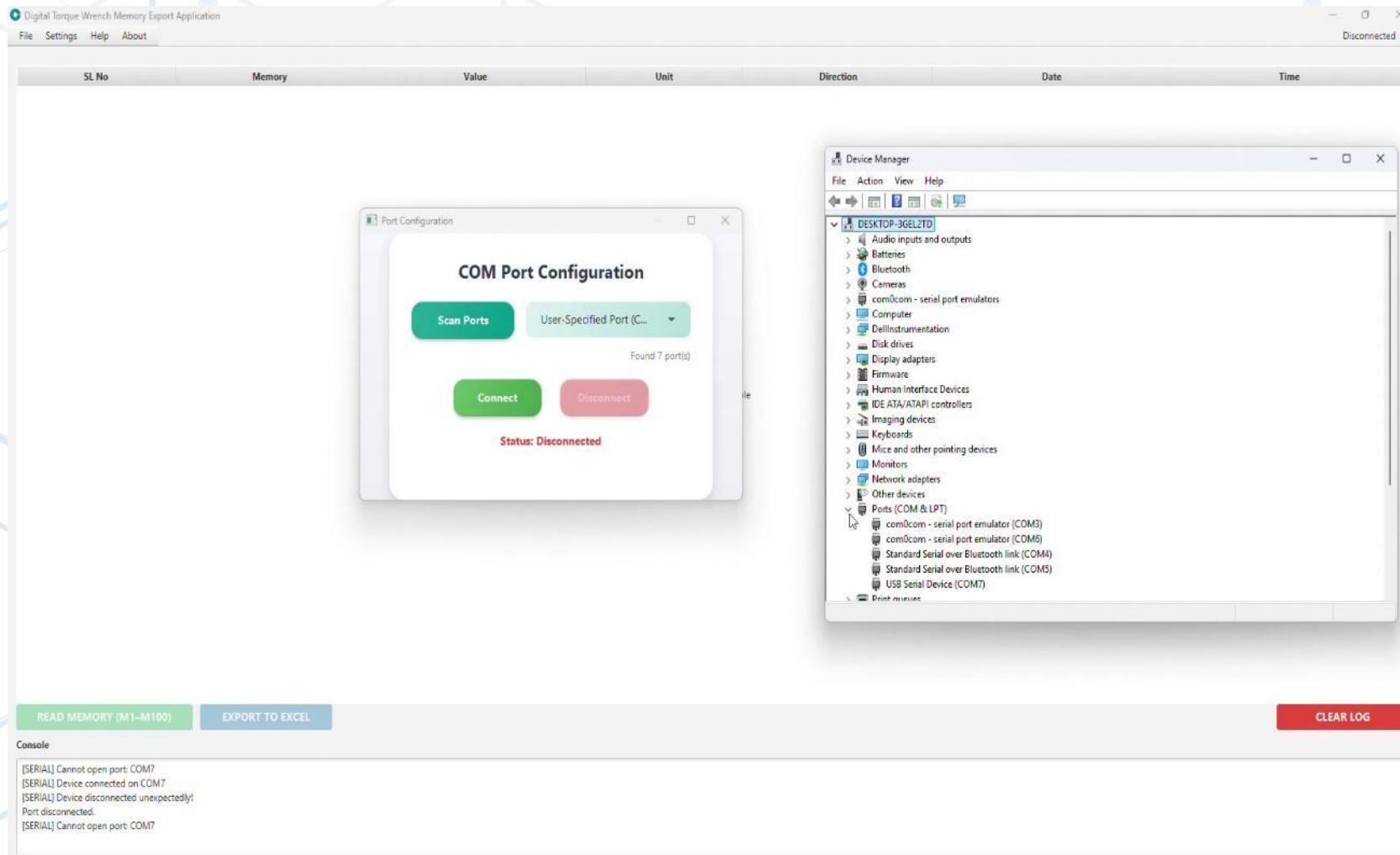
Safely closes the active serial connection

Status label

Disconnected / Connecting... / Connected

Status turns orange while connecting and green once successfully connected.

Step 3 — Scan Ports & Identify the Correct COM Port



WHAT TO DO

1 Scan Ports

Click the green Scan Ports button

2 Device Manager

Open Windows Device Manager separately

3 Ports (COM & LPT)

Expand this category in Device Manager

4 Find USB Serial

USB Serial Device (COM7) = your wrench

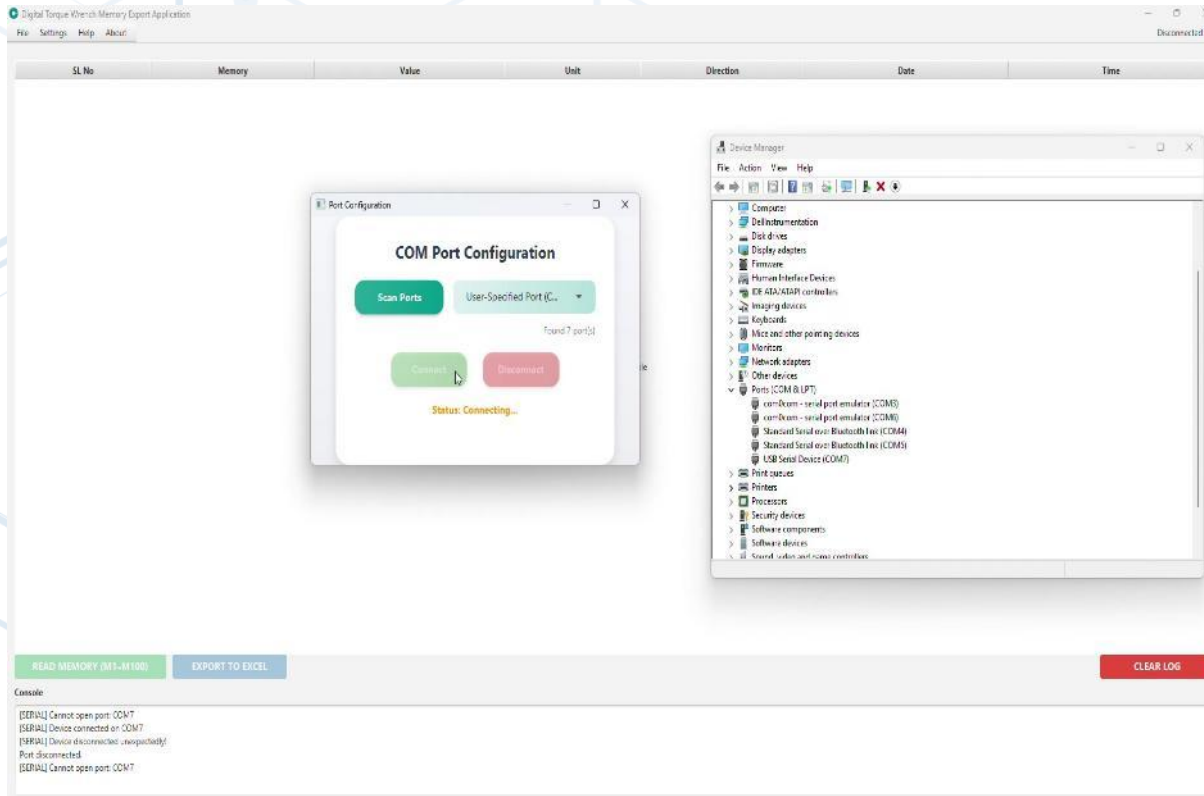
5 Select Port

Pick matching port number in dropdown

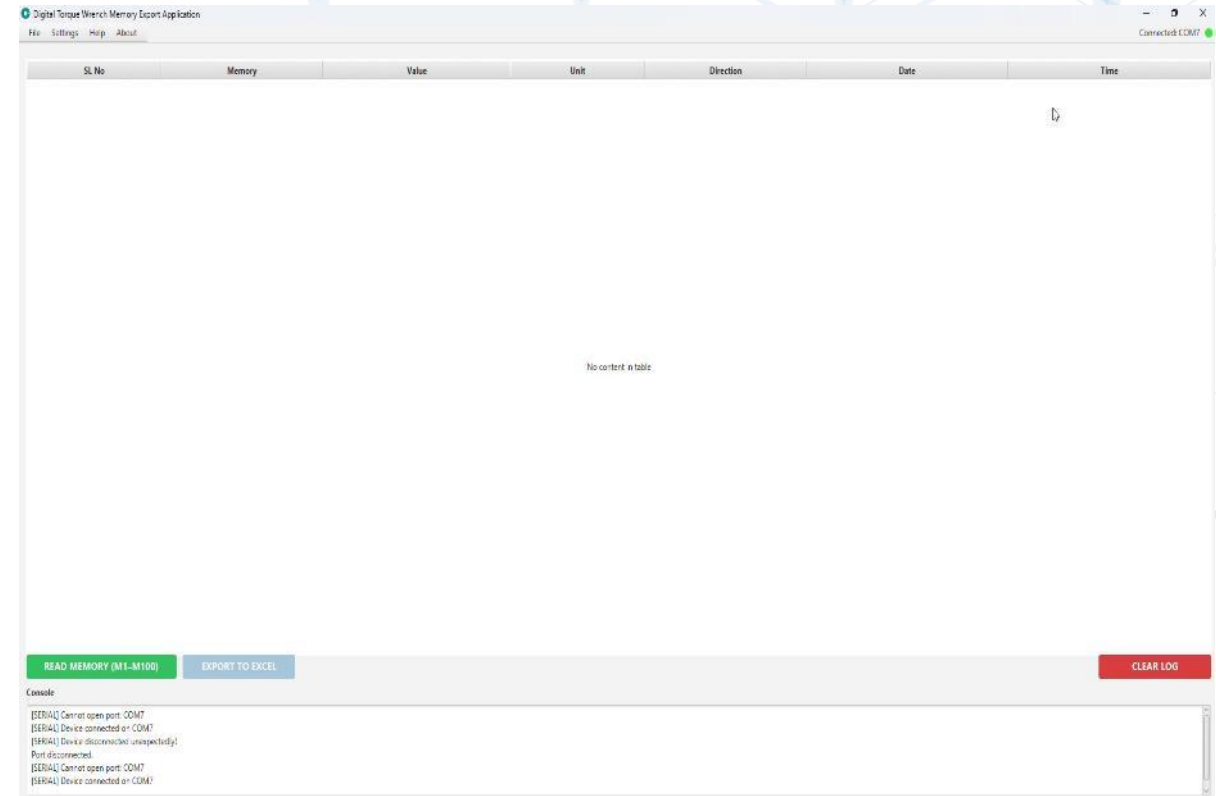
Open Device Manager: Start ▶ Run ▶ devmgmt.msc

💡 USB Serial Device = Digital Torque Wrench (USB cable)

Step 4 — Select Port & Click Connect



Connecting... (orange status text in dialog)



Connected: COM7 (green dot — top-right of main window)

What Happens:

- ① Select the correct COM port from the dropdown (e.g. COM7)
- ② Click the green Connect button — status text turns orange (Connecting...)
- ③ Once connected, status clears and the top-right indicator turns green
- ④ The EXPORT TO EXCEL button becomes active

Step 5 — Read Memory from the Device

[illegible]

Console shows: "Reading memory..." → "Memory reading completed."

READ MEMORY BUTTON

SL No

Serial number of the reading entry

Memory

Memory slot label (M1, M2, ..., M100)

Value

Torque value recorded by the wrench

Unit

Measurement unit (FT-LB, N·m, in-lb)

Direction

CW = Clockwise | CCW = Counter-Clockwise

Date

Date of reading — MM/DD/YYYY format

Time

Time of reading — HH:MM format

Step 5 (cont.) — Memory Data Populated in Table

[illegible]

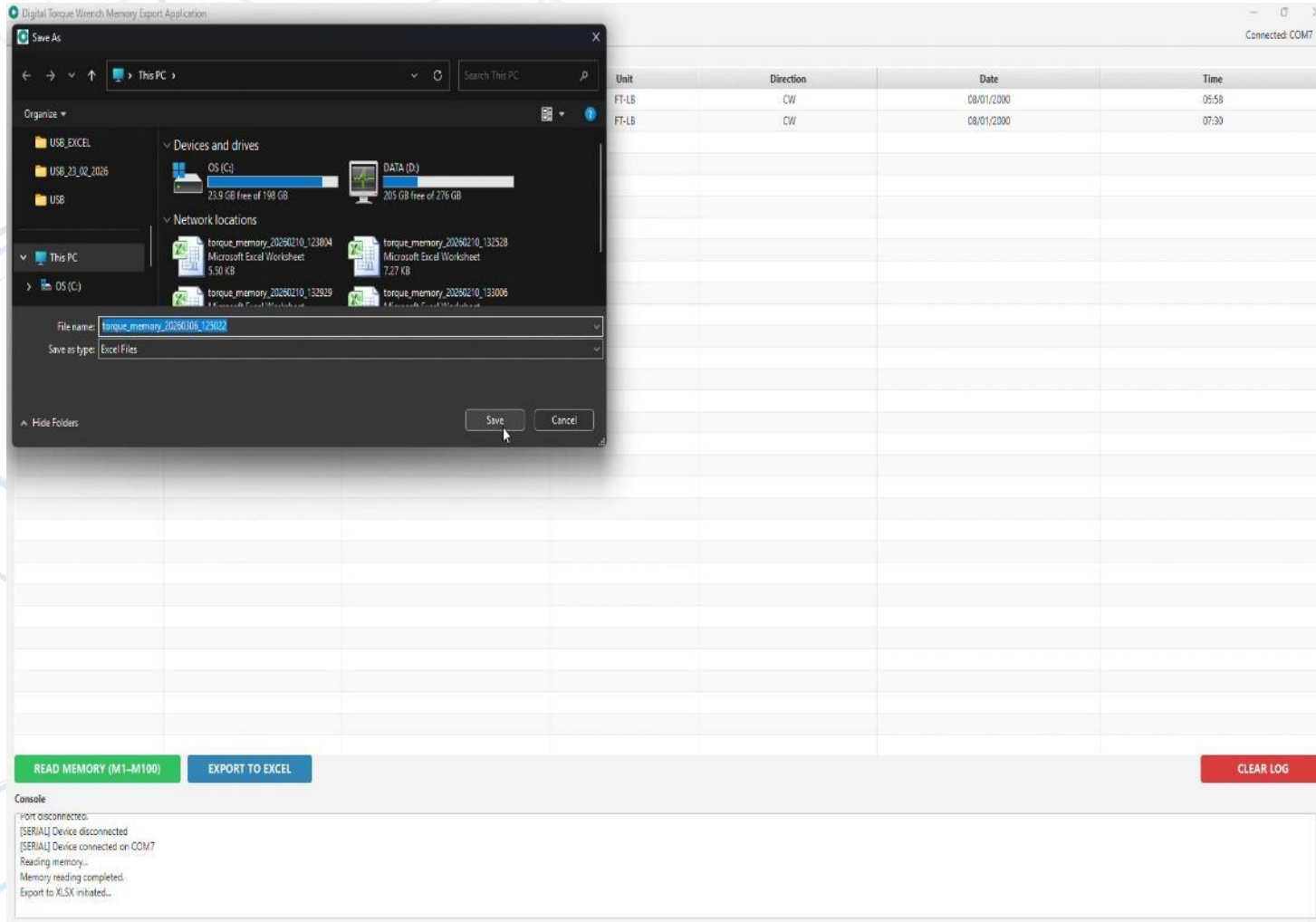
Sample Data:

M1: 6.3 FT-LB • CW • 08/01/2000 • 05:58
M2: 7.3 FT-LB • CW • 08/01/2000 • 07:30

Console Confirms:

[SERIAL] Device connected on COM7 → Reading memory... → Memory reading completed.

Step 6 — Export to Excel



EXPORTING THE DATA

1 Click Button

Click EXPORT TO EXCEL at bottom of main window

2 Save As Dialog

Windows Save As dialog opens automatically

3 Auto-Filename

torque_memory_YYYYMMDD_HHMMSS (auto-generated)

4 File Type

Save as type is pre-set to Excel Files (.xlsx)

5 Choose Folder

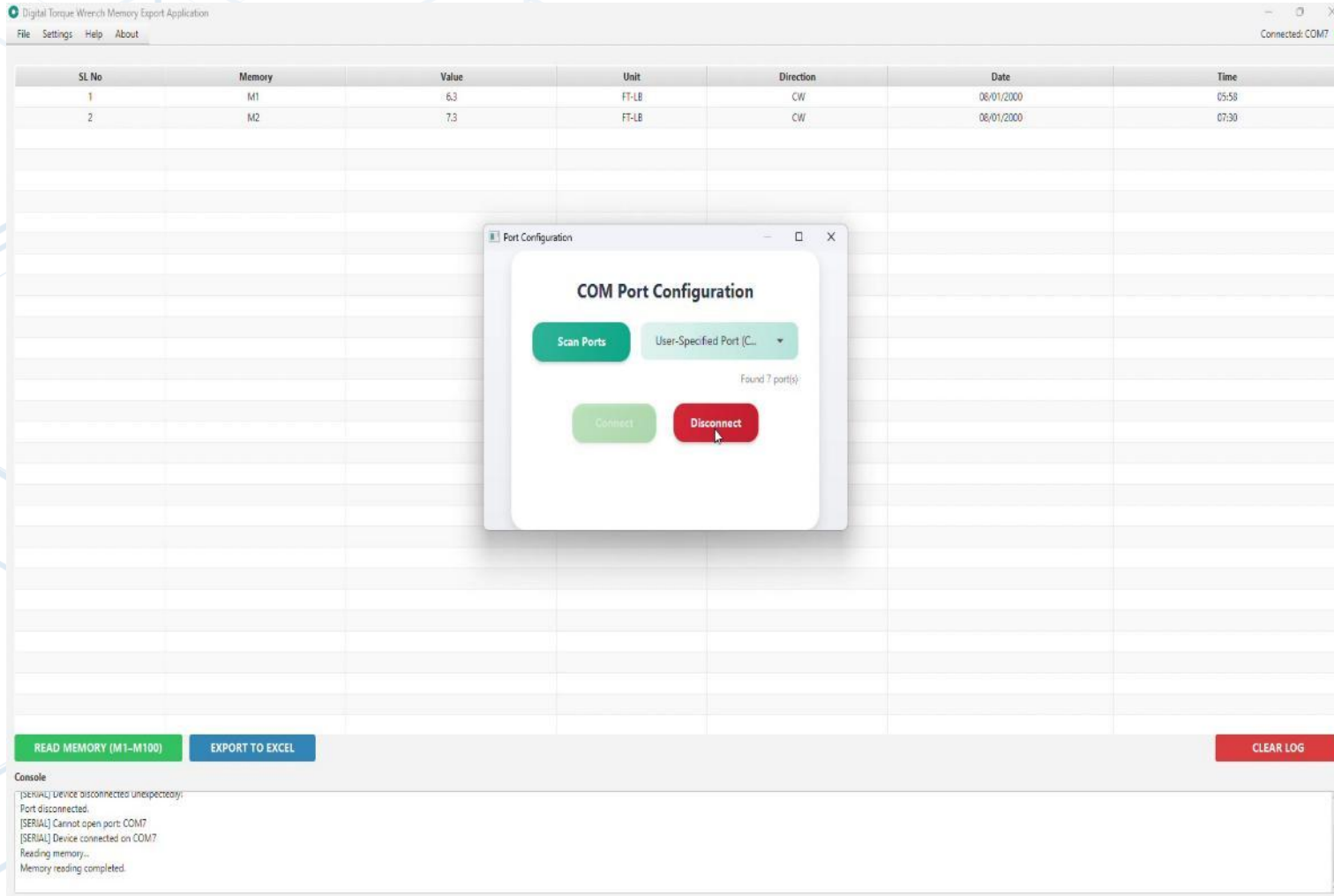
Navigate to desired destination (USB, C:, D: etc.)

6 Save

Click Save — file is written to selected location

Console: "Export to XLSX initiated..." confirms the file was saved.

Step 7 — Disconnect the Device



DISCONNECTING SAFELY

1 Open Settings

Go to Settings Port Configuration

2 Disconnect

Click the red Disconnect button

3 Status Updates

Status reflects the disconnection state

4 Red Indicator

Top-right dot returns to red (Disconnected)

5 Console Log

Console shows: "Port disconnected."

Always disconnect via software before physically unplugging the USB cable.

COMPLETE PROCESS SUMMARY



Software:

Digital Torque Wrench Memory Export Application

Connection:

USB Serial via COM port — identified in Windows Device Manager

Output:

Excel file (.xlsx) containing all memory readings from M1 to M100

File Naming:

Auto-generated: torque_memory_YYYYMMDD_HHMMSS.xlsx