4titude® TubeMarker™ Software Project







Current TubeMarker™ Software

Java

PROS

- Simple functionality data input, print functionality, tube set-up
- "Infinite" job/batch data input
- Easy import of excel files .xls,
 .xlsx &.csv
- Create/save & open optimised tube settings
- Error management

CONS

- Unstable glitches, freezes, crashes
- Limited to 8 lines of text per tube
- If error occurs, potential loss of data/position in print job
- No log management system
- Inflexible label creator horizontal/vertical
- Restricted to one barcode and one graphic per label
- Complex installation process
- Low throughput



Customer Feedback

Pain Points

- Unreliable/Unstable crashing and freezing a big issue, unexpected downtime, loss of data
- Installer manual process (32-bit), time consuming, 3-4 part installation, wrong platform often downloaded
- Low throughput manual tube feeding, one tube at a time

Would be nice if...

- Label creator flexibility needed
- LIMS compatible cannot integrate into LIMS
- Remote Communication undefined/unwritten



New TubeMarker™ Software

Windows Based - New Look User Interface!

New Features

- Flexible Label Designer –
 dedicated designer window, intuitive,
 fully customisable label control & FUN!
- Job/batch control Print
 ALL/SELECTED/SINGLE data, no loss of data in case of unexplained error
- Custom Column Headers excel files imported with headers!
- Print Settings offline optimisation, tube and ribbon profiles saved to drop down menus for easy access

- Printer Management System
 - multiple printer control, increased throughput, reduced downtime, improved handling, simplified firmware updates!
- Rapid Installation fast, pain free and simple
- Re-designed Ribbon
 Calibration more frequent and smarter tensioning



Java Installer vs Windows Installer

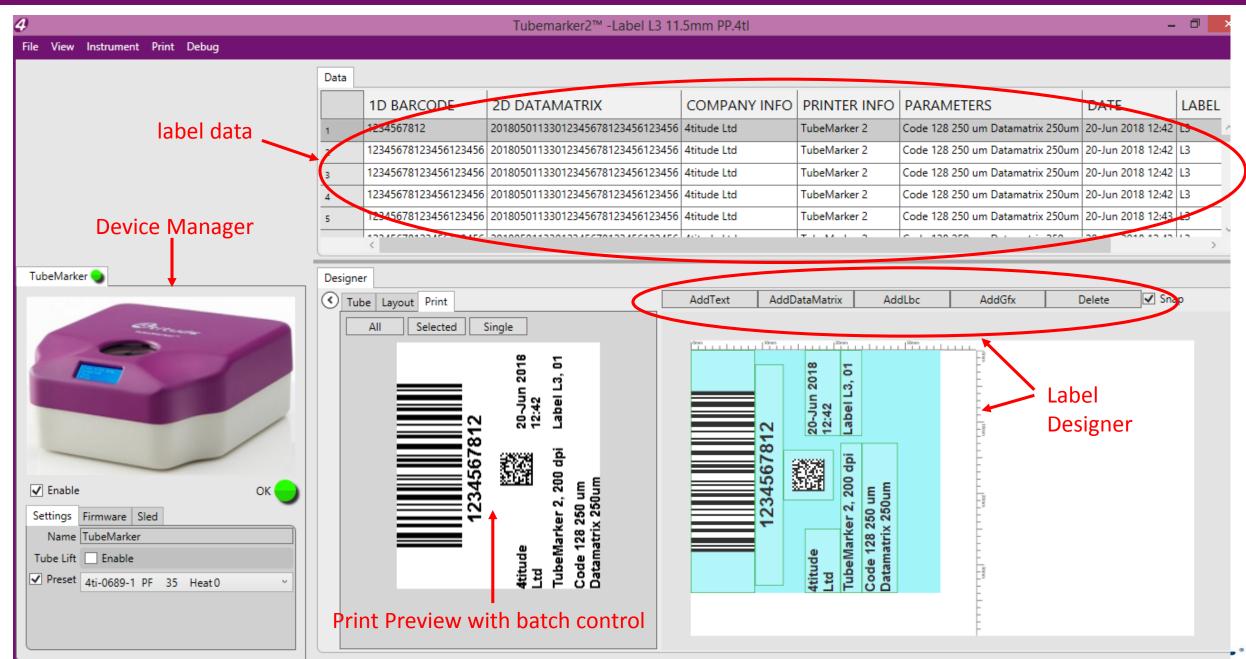
- Software transferred from USB stick (provided) to PC – also found on website
- Detect Windows OS 32-bit/64-bit?
 Determines which Java environment to download (must be offline)
- 3. Execute TubeMarker installer follow on screen instructions
- 4. Installer recognises Java isn't installed on PC pop up takes you to java download page
- 5. Run applicable Java installer follow onscreen instructions
- 6. Execute software and print!
- 7. Note! If software installed on 32bit PC, manual installation of drivers is needed.

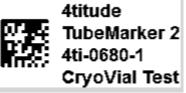
- 1. Software transferred from USB stick (provided) to PC
- 2. Execute TubeMarker installer follow short on screen instructions
- 3. Execute software and print! shortcut to app auto placed on desktop!



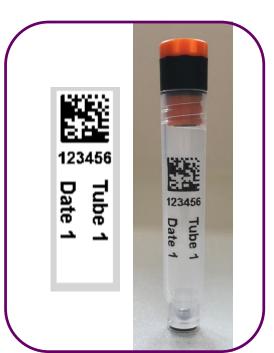


How it looks!









Print Examples



4titude Ltd



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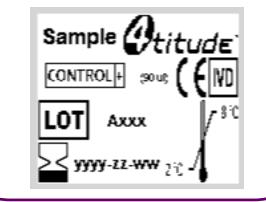
12:4

TubeMarker 2, 200 dpi Label L3, 01

Code 128 250 um Datamatrix 250 um









Still to Come?

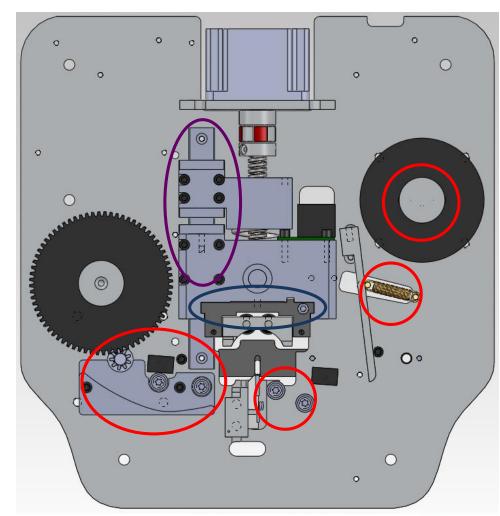
• LIMS compatibility – linked to database for data entry

• Remote communication – ability to integrate into automated platforms



Hardware Improvements

- Ribbon Pathway Re-designed
- spring lowered into chassis
- right hand driver shaft lowered
- Chrome ribbon guide posts
- Cog protection and ribbon guidance
- Pivot Point Ruler a visual reference for optimised pressure point, increased print reproducibility
- Re-designed Sled mounted to linear guide bearing, reduces friction, increases accuracy and performance





New Black Ribbon!

4ti-0689-1

- Recommended as our "go to" black ribbon
- Prints perfectly on our 4ti-0797 & 4ti-0798 Micro-centrifuge tubes
- Added to the range as alternative <u>NOT</u> a replacement to 4ti-0689
- Testing still required to ascertain best ribbon type

New Black (4ti-0689-1)	Old Black (4ti-0689)
Compatible on a wider range of consumables tested by 4titude	Alternative to the 4ti-0689-1 in cases where it does not provide an optimum print. No guarantee it will improve results.
Superior Adhesion to white tampo printed labels (commonly found on 15 and 50ml centrifuge tubes)	100% DMSO resistant
Recommended on 4titude 1.5 and 2ml micro tubes. Superior and more consistent marking compared to 4ti-0689	Resulting print is "Blacker"/"bolder" than 4ti- 0689-1
Superior adhesion on PET plastic	



