

4titude[®] TubeMarker[™]

Designed to directly print text, linear barcodes, 2D codes and graphics on tubes



Clear – Flexible – Durable

- Prints directly on the surface of tubes from 0.5 ml to 15 ml
Labels or stickers are not required
- Clearer and more durable marking compared to marker pen
Consistently legible text and barcodes at high resolutions
- Resistant to alcohol, water, liquid nitrogen, DMSO and mechanical abrasion
Long lasting sample identification at competitive “per mark” cost

TubeMarker™

The TubeMarker™ allows printing directly onto the surface of centrifuge and cryogenic tubes between 8 mm – 25 mm* in diameter.

There is no need for using labels or marker pens. Marking is resistant to ethanol, isopropanol, water, DMSO, liquid nitrogen and mechanical abrasion. The prints are also stable over a wide temperature range (-196°C to 100°C). Markings do not transfer when touching the tubes.

Several lines of text can be printed, for example sample name, sampling site, your name, date, time etc. All TrueType fonts available on the connected computer can be printed with different font types and sizes, determining the maximum printed content. Bold and italic type is also possible.

The instrument also prints linear barcodes, 2D codes and graphic files (monochrome .bmp, .gif, .tiff) such as logos. Print orientation can be vertical or horizontal (except for barcodes which print vertically only).

Printing straight to the tube surface is much easier and faster than marking by hand.

No more smudged, illegible writing on tubes!

No more disappearing labelling after each ethanol wash step!

No more fiddling with tiny labels (if names or codes are printed on sticky labels)!

Clean, fuss-free and durable labelling of all common tube formats with the TubeMarker™ offers a solution!

Features



Instrument Features

- Prints directly on the surface of tubes – labels and stickers are not required
- Most 8 mm – 25 mm* diameter tubes with a smooth surface can be used
- Both vertical and horizontal markings are possible
- Prints text, linear barcodes, 2D codes and graphic files (monochrome .bmp, .gif or .tiff) such as logos
- Prints a tube in seconds
- Easy import of data from Microsoft® Excel files
- Data created in the TubeMarker™ software can be saved for future reference



Printing Quality

- Clearer and more durable marking compared to marker pen
- Marking is resistant to ethanol (42%), isopropanol (70%), DMSO (100%), liquid nitrogen, water and mechanical abrasion
- Marking is temperature resistant up to 100°C and down to -196°C (liquid nitrogen)
- Patent pending Thermal Pixel Printing technology



Equipment

- Metallic blue and silver ink ribbons available to print on all kind of tube colours and tubes with dark coloured content
- Changing the ink ribbon is quick and easy



Economic Efficiency

- A 300 m ink ribbon can be used to mark up to 100,000 tubes** – competitive “per mark” cost

* Tube holder plates for tubes >11.5 mm in diameter are available on request, please contact 4titude®.

** Depending on horizontal dimensions of the print. E.g. when printing a 6 x 6 mm 2D code, one ribbon is sufficient for 50,000 prints.

Exemplary Prints



2D code + text



Linear barcode + text



Logotype



Chinese characters + text



2D code + text



Linear barcode + text



Logotype



Chinese characters + text



2D code + text



Linear barcode + text



Linear barcode, 2D code, text, logotype

Tube Compatibility

The TubeMarker™ delivery package contains tube holder plates with hole diameters of 8.5 mm and 11.5 mm. These tube holder plates are compatible with the most common centrifuge tubes, such as 1.5 ml/2 ml tubes (4ti-0681, hole diameter 11.5 mm), 0.5 ml tubes (4ti-0682, hole diameter 8.5 mm) and 2D cluster tubes (4ti-0683, hole diameter 8.5 mm). To support tubes in the tube holder plate, the tubes require a “lip” as they are not supported from the bottom.

Wider tubes, like 2 ml cryovials, can be labelled by removing the tube holder plate and the tube being held manually.

Tube holder plates for tubes >11.5 mm in diameter are available on request. Please contact 4titude® for any custom adapter you may need.

The table below shows some exemplary tubes tested with the TubeMarker™.

Tube Compatibility			
Supplier	Tube	Product Code	Tube Holder Plate
Ambion	0.5 ml RNase-free Microfuge Tubes	AM12300	4ti-0682
Eppendorf	1.5 ml Safe-Lock micro test tubes	0030120086	4ti-0681
Apricot Design	1.5 ml/2.0 ml Disposable Microtubes	MT-15-C/MT-20-C	4ti-0681
4titude®	2 ml Cryotube, barcoded, external cap/internal cap	4ti-4010/4ti-4020	n/a, see above
4titude®	5 ml Cryotube, barcoded, external cap/internal cap	4ti-4011/4ti-4021	n/a, see above
Biosigma	CryoGen® Tubes, 1–5 ml, tube diameter 12.4 mm	Diverse	n/a, see above

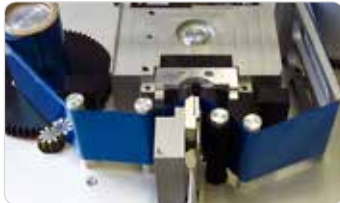
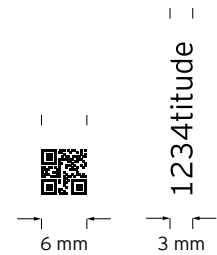
Prints per Ribbon

The maximum number of prints per ribbon depends on the horizontal length of the print.

E.g., with a horizontal print of 3 mm in width (e.g. one line of vertical text) you can print 300 m : 3 mm = close to 100,000 tubes.

With a 6 x 6 mm 2D datamatrix print, you can print 300 m : 6 mm = close to 50,000 tubes.

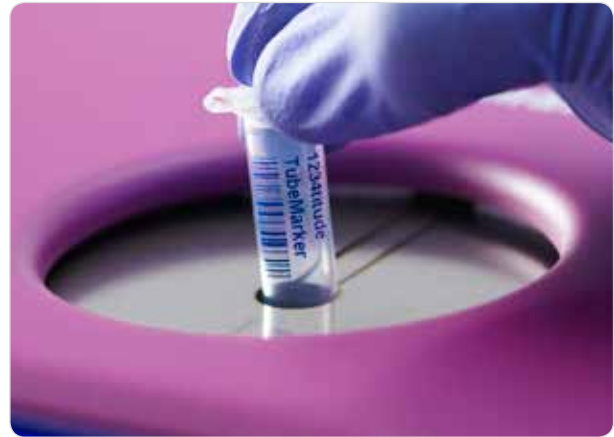
There is minimal waste between the prints.



Changing the ink ribbon is quick and easy



Metallic blue and silver ink ribbons available to print on all kind of tube colours and tubes with dark coloured content



"The 4titude® TubeMarker™ speeds up tube marking and makes it easy and reliable!"

Laboratory assistant test feedback

Ordering Information

Code	Description
4ti-0680	TubeMarker™ , printer for marking the side of 0.5 to 15 ml tubes Includes: 3 x tube holder plates (4ti-0681, 4ti-0682, and 4ti-0683), AC adapter 15W 18VDC (input 100-240VAC), USB A-B cable, operation manual, TubeMarker™ software (on USB-Stick), 12 months warranty
4ti-0681	Tube Holder Plate for 1.5 ml/2 ml tubes, hole diameter 11.5 mm
4ti-0682	Tube Holder Plate for 0.5 ml tubes, hole diameter 8.5 mm
4ti-0683	Tube Holder Plate for 2D cluster tubes, hole diameter 8.5 mm
4ti-0686	TubeMarker™ Ribbon, metallic blue, 1 roll, 300 M x 40 mm
4ti-0686/10	as above, 10 rolls
4ti-0687	TubeMarker™ Ribbon, silver, 1 roll, 300 M x 40 mm
4ti-0687/10	as above, 10 rolls

Technical Specifications

Parameter	Specification
Dimension (W x L x H)	270 x 280 x 122 mm
Weight	4.8 kg
Printing area height	14 – 40 mm*
Text orientation	Vertical or horizontal
Max. number of printing rows	8*
Power supply	V in: AC 100 – 240 V V out: 12V DC
Communication	USB port

* Dependent on tube size. Prints to straight part of tubes only.

Distributed by:

Learn more about the TubeMarker™ at www.4ti.co.uk

