

Marking of Medical Tubes and Locating Them within a Cassettes / Rack

SDD ITG has developed a unique and novel way of marking and locating medical tubes within a cassette or rack arrangement.

This is achieved by implementing an RFID Tag on each tube, which allows for the tracking and location of the medical tube through various processes.

The current system allows for up to 100 tubes to be located within a cassette, all within a very short period, typically within 1second. This is achieved through innovative design and novel implementation of this invention. Not only does the system verify how many tubes are present, but identifies each and every individual tube within such clusters.

This short identification period, allows for any individual medical tubes to be located within a cluster of 100, within 1second, eliminating potential temperature changes to the larger cluster, but more specifically, allows for very high integrity in locating specific medical tubes, whether holding specific tissue or other variety of medical samples. This allows for mixed tubes to be held in one rack or cassette, with high integrity differentiation.



The Technology

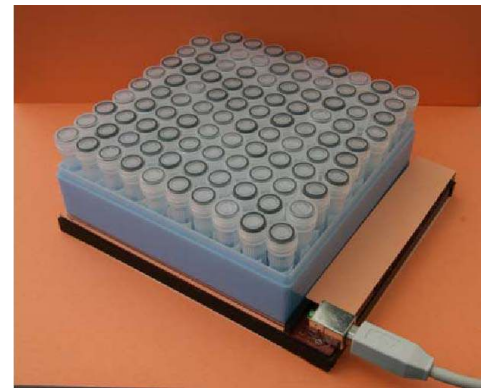
We use ISO15693 compliant technology, as it is appropriate to offer a non-proprietary technology solution to the market space.

Aspecial and unique 6mm RFID disc tags, which fits within the base of the medical tube, with the help of a specially designed housing to suit a variety of medical tube types, are used.

A suite of RFID Writing Devices are available to write data to the tags, and similarly, a suite of Reading devices are provided to scan and read the tag data at various locations within such deployments.

Typically handheld device are used for quick location or singular tube data management, while a matrix of antennae arrays are implemented to scan clusters of tubes, typically when in a cassette / rack.

Writing data to the RFID tag on the tube, is done on a desktop device, which holds only one tube at any time. This is to eliminate potential loss of integrity, as it is crucial to make sure that data gathered and/or written to the RFID tag is referenced to the correct tube.



Typically the Reading and Writing Devices are USB driven, from a Laptop or PC, so no external power source is required, while the RF Emitting Power is well below permitted standards. There will be no interference with other medical equipment.

For any further information, please feel free to contact:

Spira Matic
spira@sdditg.com

```
Medical - HyperTerminal
File Edit View Call Transfer Help
00 01001072C6D2 01 01001072C78B 02 01001072F8BE 03 01001072C77C 04 01001072C6EB
05 01001072F64E 06 01001072C75D 07 01001072F84E 08 01001072F754 09 01001072C742
10 01001072F853 11 01001072DD5D 12 01001072C6A0 13 01001072F8CD 14 01001072F751
15 01001072DE84 16 01001072F750 17 01001072F6D7 18 01001072F8AF 19 01001072DD71
20 01001072C6D6 21 01001072DE8C 22 01001072F8C2 23 01001072C72D 24 01001072DD00
25 01001072DF30 26 01001072DF38 27 01001072C68D 28 01001072F8C4 29 01001072C6D3
30 01001072F762 31 01001072C73C 32 01001072C6A8 33 01001072F75D 34 01001072F74E
35 01001072C6E3 36 01001072C6AE 37 01001072C782 38 01001072F763 39 01001072C67D
40 01001072F6D8 41 01001072DD77 42 01001072F6DD 43 01001072DD63 44 01001072C6D4
45 01001072C743 46 01001072DD6F 47 01001072DD0F 48 01001072DC89 49 01001072DD6C
50 01001072F7CF 51 01001072C733 52 01001072F7D3 53 01001072F8C5 54 01001072F7DC
55 01001072F646 56 01001072C72B 57 01001072C794 58 01001072F8C3 59 01001072C6E8
60 01001072C6A5 61 01001072F6C3 62 01001072F7D9 63 01001072C6E2 64 01001072F852
65 01001072C6D0 66 01001072F75A 67 01001072F75F 68 01001072C6EA 69 01001072DCF8
70 01001072C70C 71 01001072F6D3 72 01001072F64C 73 01001072C77B 74 01001072F6D0
75 01001072C76B 76 01001072DC9A 77 01001072F764 78 01001072C72E 79 01001072DF41
80 01001072F63D 81 01001072F7CD 82 01001072C784 83 01001072F6C2 84 01001072C735
85 01001072DF20 86 01001072F8CE 87 01001072F64D 88 01001072F656 89 01001072C6A1
90 01001072F8CF 91 01001072F6E1 92 01001072DC82 93 01001072DD7E 94 01001072DD53
95 01001072F761 96 01001072C685 97 01001072DD65 98 01001072C751 99 01001072DD7F
Connected 00:53:14 VTSP | 115200 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo
```