

RiTrack Mirage

A revolution in cryogenic sample management –
locate tubes with RFID even if the rack is covered in ice

Ziath from Azenta Life Sciences is proud to present an era-defining change in the way that frozen samples stored in 2D-barcoded tubes can be managed. Overcoming the problems of ice on the base of tubes and racks using novel RiTrack radio-frequency tagging eliminates the frustration of racks and tubes that cannot be read due to excessive frosting.

Features

- Stores individual tube identities, up to 16 characters, for up to 96 tubes in a rack
- Works with racks covered in ice and with racks stored in vapour-phase LN2 – no warming or thawing necessary – protects thermally sensitive samples
- No need to buy special racks; Tags fit most commercially available SBS racks – lowers your cost of operation
- Tags last and function for the whole life of your racks – increase your RoI and lower your cost of ownership
- Quick and easy read out with any smartphone through a simple App – Improves productivity in the lab
- Write and re-write unlimited times to the same tag with a RiTrack Mirage – Quick and convenient whilst keeping costs under control
- Unique RFID technology exclusive to Ziath from Azenta Life Sciences – Take advantage of the smart route to cryogenic sample management

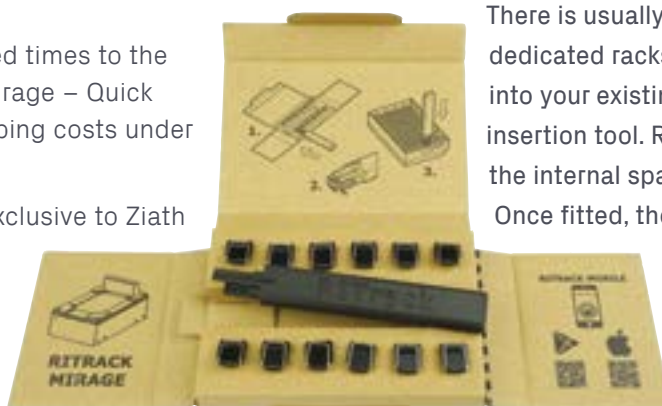


Extensive testing has shown that RiTrack RFID technology can withstand immersion in vapour phase liquid nitrogen more than 10,000 times without losing any stored data or showing any degradation. RiTrack is therefore suitable for all forms of long-term cryogenic storage.

Standard laboratory consumables – in the form of SBS format tube racks – can be used with the RiTrack system.

There is usually no need to buy expensive dedicated racks – just insert a RiTrack tag into your existing racks using our handy tag insertion tool. RiTrack tags will fit securely into the internal space of most SBS tube racks.

Once fitted, they are securely held in place and almost impossible to remove giving added peace of mind that the tag will stay in position for the whole lifetime of the rack.



RiTrack tag pack, which includes a tag applicator

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To use RITrack, a Ziath Mirage fitted with the RITrack antenna module must be used initially. This unit optically reads the barcoded tubes in the rack using DP5 software. It can then write the decoded data to the RITrack tag. The RITrack Mirage can also read the stored data back from the tag and compare it with the photographic data. If any tubes have been moved, removed or replaced, the DP5 RITrack software will highlight these in the visual interface as well as in the tabulated data. Because RITrack tags use standard RFID technology, they can also be read by any mobile device with Near Field Communication (NFC). An easy to use App can be downloaded free from the App Store or Google Play to any compatible smartphone. The App allows the tag information to be read and the data displayed in either graphical or tabular format.

This makes it easy to identify any individual tube in the frozen rack together with its location. Simply open the freezer, withdraw a rack and offer it up to the phone to

see all the available tubes in that rack, eliminating the inefficiency of taking one or more cold racks back to the lab.

Using the Pick List function of the App, tubes from several different racks can be checked-off right in front of the freezer, again saving valuable technician time.

RITrack data for every individual tube as well as the rack barcode can be read or stored to the tag in a matter of seconds. This makes it very quick and easy to manage frozen samples without thawing or removing ice, thus saving valuable time and protecting delicate thermally-sensitive materials in the stored tubes.



Download the
RITrack Mobile app



Ordering information

Code	Description
DP5-M-RIT-80	Mirage RITrack reader with special RFID sensor, DP5 Software, Cryoprotection
DP5-NET2	Upgrade DP5 Standard to a full DP5 Network license, for Mirage RITrack
DP5-RIT-TAG	RITrack RFID Rack Tags, with magnetic RAM for unlimited re-writes, includes 1 tag applicator and 12 tags per case
DP5-RIT-APL	RITrack tag applicator

For full details of DP5 software and Mirage barcode readers, please request a separate data sheet.



View the RITrack Mirage product page on our website