



## RFID tagging technology streamlines cryogenic sample management

**Ziath, a Azena Life Sciences company,** announce a revolution in cryogenic sample management – the Ri-Track Mirage 2D barcoded tube whole rack reader.



### **Traditionally identifying the identity of frost covered racks**

of 2D barcoded tubes taken from low temperature storage has been a time-consuming and error prone process. Drawing upon proprietary Radio Frequency Identification (RFID) tagging technology – the Ri-Track Mirage can reliably read 2D barcoded racks covered in ice and with racks taken directly from vapour-phase liquid nitrogen storage. The need to warm your rack to thaw it out, which may degrade thermally sensitive samples, to read your identity of your sample rack is eliminated.

### **Extensive testing**

has shown that Ri-Track RFID technology can withstand immersion and retrieval from vapour phase liquid nitrogen more than 10,000 times without losing any stored data or showing any physical degradation. Ri-Track is therefore suitable for all forms of traceable long-term cryogenic sample storage.

### **Ri-Track tags**

ast and function for the whole life of your racks, lowering cost of ownership and increasing your return on investment. Beneficially the Ri-Track system has been designed for use with standard laboratory consumables. There is no need to buy expensive dedicated racks. Just insert a Ri-Track tag into an existing SBS-format rack using an easy-to-use tag insertion tool. Ri-Track tags fit snugly and securely into the internal space of almost any moulded SBS format tube racks.

**Ri-Track data**

is initially stored to the tag in a matter of seconds using a Ziath Mirage camera-based rack reader fitted with the Ri-Track antenna module, which can also read back data from the tag. Following this initial data storage, the Android or Apple DP5 Ri-Track App on an NFC-equipped phone will allow the tag information to be read and the data displayed making it easy to identify any individual tube in the frozen rack together with its location and full identity.

**Reading cryogenic racks**

is now as simple as opening the freezer and withdrawing a rack, then offering it up to your smart phone to see all the available tubes in that rack. This exciting technological advance eliminates the need to bring cold racks back to the lab for reading. 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.

**For further information**

on Ri-Track Mirage 2D barcoded tube whole rack reader please contact the company on +44-1223-855021 / +1-858-880-6920 / +31-6-4314-1195 / [info@ziath.com](mailto:info@ziath.com).

**Ziath Ltd.**

specialises in development of innovative instrumentation and software for sample management using 2D Data Matrix bar-coded tubes. These products are widely used in academic, biotech and pharmaceutical organisations. Part of the Consumables and Instruments division of Azenta Life Sciences (Chelmsford, MA), the company is well placed to support customers worldwide.

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