FreezerPro Sample management system

Contents

1. Introduction:

The FreezerPro is a scalable web-based sample inventory management system that delivers secure management of samples and sample information. It allows:

- Tracking samples in and out of freezers
- Reporting & data export/import (multiple formats)
- Live & smart searching
- Viewing full audit trails

2. FreezerPro license purchase:

2.1 Purchase link:

FreezerPro user licenses can be purchased from Azenta life sciences:
https://www.azenta.com/products/freezerpro-sample-management-system

2.2 Type of license recommended:

There are three different tiers of FreezerPro user licenses: Standard, Enterprise, and Elite. Standard licenses are sufficient for report international sample management.

2.3 Number of licenses required:

One standard FP license allows FP access to a user on one computer at a time. If the site staff decides to purchase 1 license and share the login information between different staff members, please make sure to have a dedicated computer to access FP. If two users try to login on FP at the same time, it may result in not saving work for one of the users.

The number of licenses required for each site will depend on the number of users who need to access FreezerPro simultaneously.

3. Other equipment needed to use FreezerPro:

3.1 Cryogenic label and ribbon recommendations:

Cryogenic labels are stable at very low temperatures (in -80℃ Freezers and liquid nitrogen tanks). The cryogenic labels are printed using thermal printers and require printing ribbon as well.

3.1.1 Model:
- Label: LBL-02WR1 (600 labels/roll) - Wraparound Portrait Label - 1.00" x 2.75" (1" core)
- Ribbon: RIB-004 Printer Ribbon - 2.50" x 244' Wax/resin roll.

3.1.2 Link:

- https://freezerworks.com/index.php/labels?creative=391622279754&keyword=&matchtype=&network=g&device=c&gclid=CjwKCAiAxreqBhAxEiwAfGfndFkUaKm-IspDxrJSuflMlZyQJdBd2mBNw1An2e_A7ZnBLCkqirnrxBoC9IkQAvD_BwE#

3.1.3 Cost:

- The approximate cost of 1 roll of label (600 labels/roll) is $69 USD.
- The approximate cost of 1 roll of ribbon is $21 USD.

3.1.4 Recommendation and notes:

- Labels only stick to vials at room temperature. These labels will not stick to frozen vials.
- Approximately 7 rolls of ribbons are needed for 10 rolls of labels.
- If you choose to order labels and ribbons from another vendor, make sure that the ribbons and labels are compatible with your printer. The labels have either 1" core or 3" core. You can get further information regarding this from the vendor listed in 3.1.2.

3.2 Barcode Printer:

3.2.1 Model:

- Zebra ZD621t – thermal printer (Item-ZD6A043-301F00EZ)

3.2.2 Link:

- https://www.cdw.com/product/zebra-zd621t-label-printer-b-w-thermal-transfer/6472470?fta=1

3.2.3 Cost:

- $635 USD

3.2.4 Recommendation and notes:

- Do not use a non-thermal transfer printer to print cryogenic labels. The ink from the regular printers fades in 3-4 weeks.
- If you choose to order another thermal transfer printer, make sure that the labels and ribbons are compatible with your printer.

3.3 Barcode Scanner:

3.3.1 Model:

- Honeywell Granit XP 1991iSR – USB Kit – barcode scanner (Item 1991ISR-3USB-5-N)

3.3.2 Link:

- https://www.cdw.com/product/honeywell-granit-xp-1991isr-usb-kit-barcode-scanner/6162886
- https://www.amazon.com/Honeywell-Granit-1991i-SR-Industrial-Grade-CBL-++++500-300-S00/dp/B09RTH1D3Y

3.3.3 Cost:

- Approximately $800 USD. Price varies a bit depending on the vendor and time of purchase.

3.3.4 Recommendation and notes:

- Any handheld QR code scanner will work with FreezerPro.
- The scanners are standard range and extended range. For most labs, standard range scanners are sufficient, but feel free to choose a scanner based on your lab needs.

4. FreezerPro printer set up.

The following settings can be configured under printer settings on the computer where printer drivers are installed:

4.1 Set up label size:

- Test printing will result in blank or not properly centered labels if the label size is not configured on the printer settings.

4.2 Set up printing speed and darkness

- Greater printing speed or increased darkness settings can result in smudged labels.

4.3 Tutorial and recommendations

- Tutorial on setting up label size, printing speed, and darkness: https://www.youtube.com/shorts/vMwXzC1hOqA
- Always test print a single label before printing a huge batch of labels, this will prevent wastage of labels and ribbons if the settings are not adequate.

5. FreezerPro set-up and trainings:

5.1 Minimal training requirements: Before starting a project, the users need to be trained on the following aspects on FreezerPro:

- Add users and manage user rights.
- Set up barcode printers and manage access rights of the barcode printers.
- Set up Freezers/Freezer groups, add subdivisions and boxes on FreezerPro.
- Set up Sample types and user defined fields needed for your projects.
- Batch uploading samples on FreezerPro and printing labels.
- Review audit logs.

5.2 Training resources:

- Youtube playlist: There are 25 tutorials on FreezerPro use in this playlist: https://www.youtube.com/playlist?list=PLEpPJ6XSSt3i-5Q982AE1HBBjsYRwWhON
- User Manual: A copy of user manual is available on the homepage of the software that explains all the features of FreezerPro.

6. FreezerPro Support

6.1. Azenta life sciences: You can reach out to Azenta life sciences if you are experiencing any issues with FreezerPro: freezerpro.support@azenta.com

6.2. Rutgers University: You can also reach out to Data Operations and Management Center at Rutgers University for guidance regarding FreezerPro use.