



Chapter 3

Biometrics Enhance the Sciences Across Campus

University labs can effectively address these issues and more by using field-proven, best-in-class biometric solutions from Invixium.



University laboratories are home to valuable and often times confidential research, sensitive equipment, and significant financial investments. As such, these facilities require a higher level of security than other locations on campus.

The physical security strategy employed by university labs must prevent unauthorized access while remaining flexible enough to accommodate personnel and students working varied schedules and odd hours. In the past, university science and research departments have utilized a combination of various personnel management and access control technologies to overcome these challenges. However, disparate systems like these leave much to be desired in terms of security, staff tracking, and management.

For example, traditional access control systems typically use physical credentials. But what happens when these credentials are shared, lost, or stolen? Dated time and attendance solutions have similar pitfalls, as they struggle to combat common issues like time theft and buddy punching.

University labs can effectively address these issues and more by using field-proven, best-in-class biometric solutions from Invixium.

Invixium's portfolio of products includes multimodal authentication capabilities that enhance overall security, workforce management, and health safety initiatives. For campus laboratories, this translates to highly controlled access to some of the university's most valuable assets. With Invixium solutions, everyone from investors down to students and research assistants can rest easy knowing their hard work and achievements are protected by world-class, award-winning biometric solutions.

Superior Authentication Solutions

Biometric solutions employing multimodal authentication capabilities make locations more secure while reducing long-term expenses. Here's just a few of the benefits biometrics bring to universities.



Tightens Security

Traditional authentication methods, such as badges, passwords, and PIN codes, can easily be stolen, replicated, shared, or lost – all of which increase liability and operational costs. With biometrics, the user is the credential, preventing unauthorized access and allowing for multi-factor authentication.



Reduces Operating Expenses

Physical credentials are costly to print, issue, and replace. When you employ biometric solutions, you can dramatically reduce operational costs and cut down on unnecessary plastic waste.



Protects Personal Privacy

Well-designed biometric solutions are spoof-proof, ensuring individuals are who they claim to be without fear of bad actors fooling the system. Biometrics also protect personal privacy with highly encrypted data that does not include any images of faces or individuals. This ensures that even if the data is hacked, it is useless outside of the system's highly protected data environment.



Improves Security Personnel Efficiency

The time and budget-consuming tasks related to manually issuing and enrolling physical credentials detract from other critical security and service operations. By employing easy self-service face enrollment and badging with mobile enrollment capabilities, your security personnel can spend their time more productively.



Enhances the User Experience

With biometrics, there is no password or physical access credential to remember and present. Biometric authentication takes only seconds and keeps users moving, ideal for locations such as science labs that need to authenticate a group of people quickly.



Touchless Operation

With facial recognition and digital credential options, the entire authentication process is completely touchless, effectively reducing the spread of germs.

The Invixium Difference

Authorized Access Down to a Science

University labs house some of the most sensitive, costly, and volatile assets found on a campus. From irradiators used for cancer testing to animals undergoing testing, laboratory assets are common targets of theft and public ‘activism’. Protecting these assets is therefore more than just a matter of lab security, but one of public health and safety. Invixium’s biometric access control solutions offer a variety of authentication options to ensure that every person entering a lab has irrefutable, authorized access.

IXM TITAN, Invixium’s flagship product, provides up to 4-factors of authentication, including 2 biometric modalities (Face and Finger) for the ultimate in security. This multi-factor, biometric authentication process functions as a high-tech security gauntlet, effectively preventing bad actors from gaining unauthorized access. Invixium has a proven track record of protecting labs using some of the most secure biometric authentication methods available today – having previously been chosen by some of the top universities to protect the most classified laboratories worldwide.

Real-Time Reporting

Protecting sensitive equipment and research requires lab administrators and security teams to act fast in the case of a critical security event. In order to orchestrate a well-informed response to such a situation, it is essential to have real-time access to the data gathered from any applicable access or workforce management device. IXM WEB software from Invixium is purpose-built to meet these needs, continuously reporting on the health and usage of your Invixium biometric system. Administrators will be able to see who accessed a lab or specific workstation and what time they accessed it, as well as configure notifications that alert them to unauthorized access attempts.

Fostering a Healthful Environment

The IXM TITAN and IXM TFACE devices employ cutting-edge facial recognition technology to grant or deny access at the door. Not only does this promote the highest possible level of security, but also a touchless access experience for all who enter a lab. Eliminating shared touch surfaces at the door successfully reduces the spread of harmful germs and facilitates a healthy, frictionless access experience. Invixium even offers mask detection to ensure only those wearing a mask are granted access. These features are especially important in applications such as biolabs and cleanrooms where cross-contamination and lack of proper personal protective equipment could have harmful implications.

Enrollment Options for a Fast-Paced Environment

University labs are often full of activity, with researchers, lab personnel, guests, cleaning crews, and observers coming and going with varying schedules throughout the year. As such, enrolling and removing identities from an access control database needs to be done often and accurately. Invixium offers easy self-enrollment and mobile enrollment options so new lab personnel can request access to the system remotely using a self-provided photo. IXM Visitor similarly provides a robust visitor management solution for the remote enrollment of lab visitors and guests. Finally, Invixium biometrics eliminate the need to pay for, issue, revoke, or manage access cards, making the entire process far less time-consuming for all involved.

Securing Investors and Grants

Laboratories are the cornerstone of university research, professional development, teacher and student training, and educational experimentation. To support such functions, many university-affiliated labs turn to public grants and private investors to secure funding. However, before providing capital, grantors need reassurance that the projects they are investing in are safeguarded from IP theft or tampering. Let grantors know your department takes the value of their investment seriously by applying the highest levels of security on the market today. Deploying biometric technology from Invixium can help secure funding for ongoing projects, in turn helping the university recruit the brightest minds.

Rugged Durability with a Modern Aesthetic

When people think of laboratories, they often think of futuristic facilities that employ the latest technological innovations. With Invixium devices at the door, they'd be right. At Invixium, every device's shape, finish, and materials are meticulously selected to achieve a divine user experience, and we take pride in offering the most design-centric products on the market. But modern, beautiful design doesn't mean you have to sacrifice functionality or durability. Our flagship product, the IXM TITAN, is built with a Corning® Gorilla® glass LCD screen and an all-aluminum body to resist scratches, dents, and other forms of damage – it even functions flawlessly outdoors. Despite being some of the most aesthetically pleasing biometric devices ever created, our solutions can easily withstand the heavy use they receive in a variety of rugged environments, like factories, refineries, and construction sites.

A 3-in-1 Entry Solution

Invixium facial recognition biometric devices are incredibly versatile. In addition to their core access control, workforce management, and health-safety functions, they also help consolidate device deployments at entryways. By doubling as a video surveillance camera and video intercom, Invixium facial recognition biometric devices effectively eliminate the need for redundant security measures. By providing surveillance, intercom, and access control reader capabilities in one unit, Invixium delivers even greater added value.



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