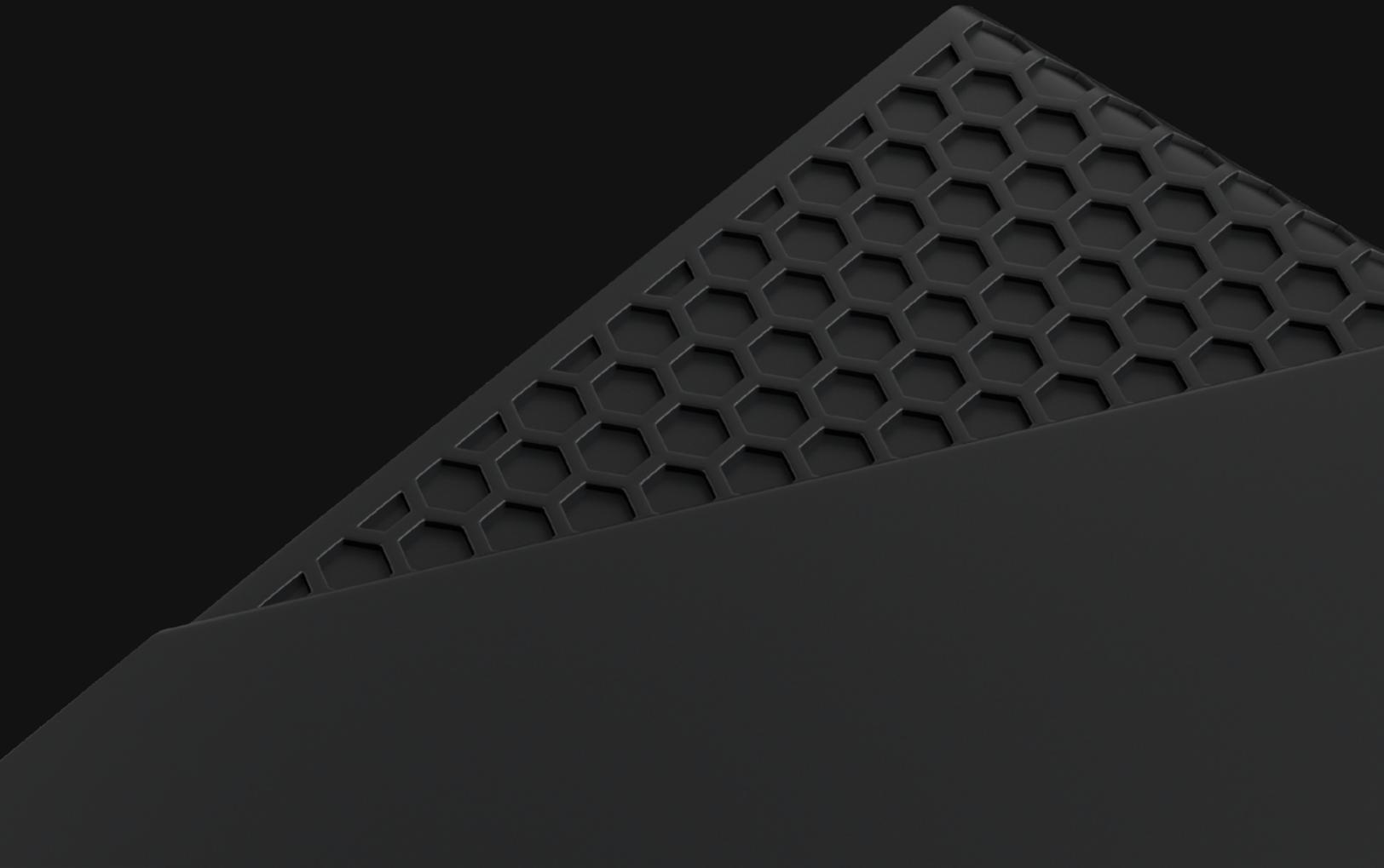# alcatraz ai

Healthcare
Case Study

Alcatraz AI Delivers Frictionless Access Control Solution with 3D Facial Recognition to Martin Luther King Hospital in Los Angeles

Located in Los Angeles, Martin Luther King, Jr. Community Hospital—MLKCH—has one of the busiest emergency departments in Los Angeles County. It opened in 2015 and is one of only three hospitals in Los Angeles to receive a Health Care's Most Wired award which is a renowned recognition of a hospital's optimal use of information technology. They were also honored with an OSPA—Outstanding Security Performance Award—from ASIS International. MLKCH's commitment to IT and security is strong.

– Challenge

MLKCH leadership sought biometrics to supplement their existing access control solution provided by AMAG Technology Symmetry Access Control. Mark Reed, MLKCH Director of Support Services, said he and his team were considering incorporating biometric card readers to provide additional security and verification. In researching biometric solutions, they came across the Alcatraz AI Rock 3D Facial Authentication Platform for access control.

MLKCH leadership first wanted to use the Alcatraz Rock to provide frictionless access for employees to the hospital's security center. The hospital has over 2,000 employees with more than 70 dedicated to the security department. It is these 70 employees that were initially enrolled into the biometric access control program at MLKCH.

"The security department was a natural place to start with coverage from the Alcatraz Rock and facial recognition access control," said Reed. "Our security department obviously has a huge role in maintaining a safe and secure hospital environment for patients, staff, and guests and therefore houses important employees and information. Controlling access to this security area is key and we wanted to ensure that only those individuals that are supposed to be coming and going are the ones that are actually coming and going. What better way is there to verify identity than with facial recognition?"

– Solution

The Alcatraz Rock is a 3D facial authentication product that creates a frictionless and secure environment at enterprises that care about their physical security. Developed by former Apple engineers involved in the FaceID project, the Alcatraz Rock uses facial authentication to replace or augment badges (single and dual-factor) while sensing for tailgating—solving one of the biggest problems in the industry.

The Rock uses artificial intelligence to self-enroll employees, as well as passively detect people who didn't authenticate to identify tailgating. The Alcatraz Rock integrates into any existing access control infrastructure, badge reader, and badge type—making it the easiest biometric product to deploy while providing security that currently is achieved with costlier turnstiles or guards. It's integration with AMAG Technology's Symmetry Access Control platform at MLKCH has provided a seamless transition from using badges to employee faces as credentials.

The MLKCH team has been exceptionally happy with the Alcatraz Rock's performance and results, said Reed. Transitioning employees to the Alcatraz Rock has been seamless primarily due to the easy enrollment feature, he said.

"You can either enroll someone's face or you can set it up to automatically learn an employee's face as they use their badge. We expected it might take a while to learn each employee's face and to transition to facial recognition only, but by the second day it learned who I was. As I was walking up to the door, the Alcatraz Rock reader detected my face, recognized me, and permitted me to pass through without using my badge," said Reed.

"We even tried to fool it with fake pictures and other ways, and it passed every test we put it through with flying colors!"

MLK Hospital Employees do not need to present a credential to enter this secure door. The Alcatraz Rock uses facial recognition to grant access—just like on a smartphone.

Reed said they originally planned to use the Rock as a two-factor authentication where employees use their badge and face to gain access, but the solution has proven so reliable and the technology is so good, that they only use facial ID, single factor for true frictionless access.

"It's been 100 percent effective—there have been no issues whatsoever," he said.

– What's Next?

Reed said MLKCH looks to add a dozen more Alcatraz Rocks in the first half of 2020 to expand coverage to the hospital's high security and critical access areas. This will include IT spaces and datacenters that contain ultra-sensitive patient data which can enrich adherence to HIPAA (Health Insurance Portability and Accountability Act of 1996) guidelines.

"We have won several technology awards due to our emphasis in marketing ourselves as a hospital of the future," said Reed. *"By incorporating facial recognition and frictionless biometric access control with the Alcatraz Rock, it's an example of our continuous commitment to security, technology, and to being one of the most technologically-advanced hospitals in Los Angeles and California."*

Alcatraz AI deep-learning computer vision products make access control secure and frictionless. Replace current badge and biometric readers for one-factor facial authentication or enrich an existing solution and use two-factor authentication. Simultaneously improve your organization's security posture by adding accurate tailgating detection. The Alcatraz AI Rock platform is scalable, fast, easy to integrate, and works with existing access control systems. Alcatraz AI uses cutting-edge computer vision and artificial intelligence for real-time decision making on the edge. The Alcatraz AI team continuously improves the solution with deep learning-based analytics at the core which results in the most up-to-date security solution available for a variety of verticals including healthcare, data centers, government, transportation, and more To learn more, visit alcatraz.ai.

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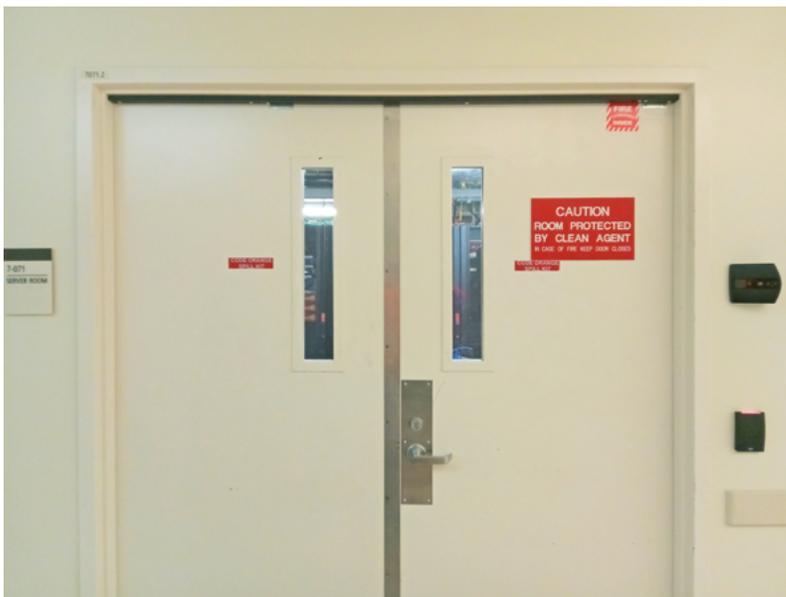
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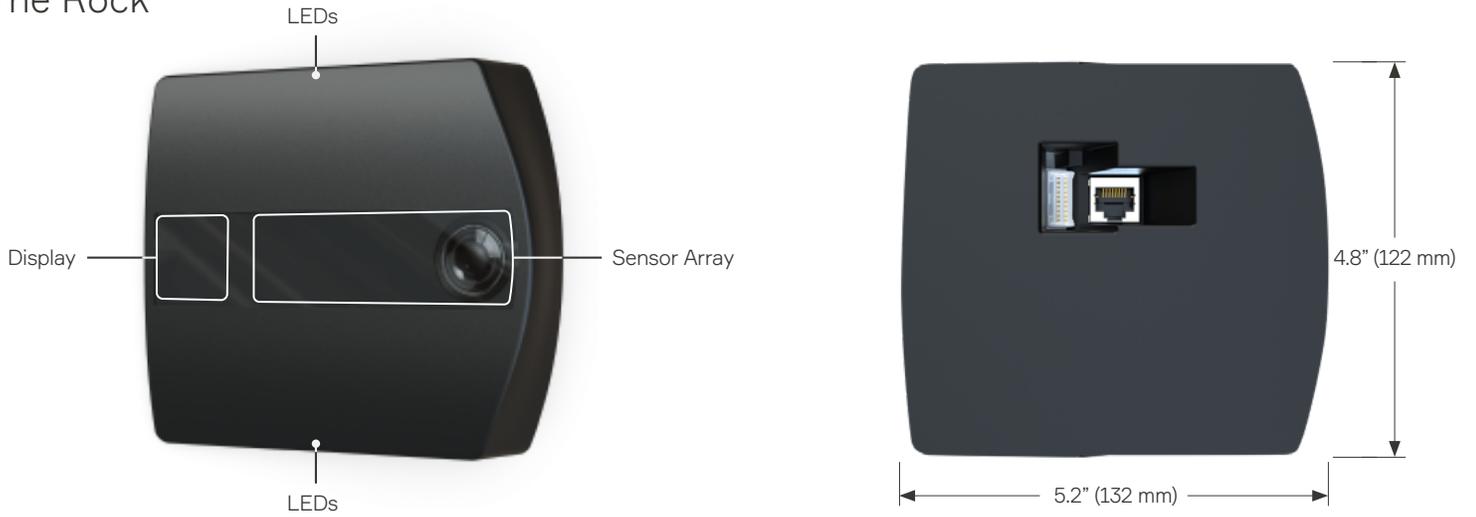
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The Rock

LEDs

Display

Sensor Array

LEDs

4.8" (122 mm)

5.2" (132 mm)

Biometrics	FAR (1:N)	Up to 0.001%
	Per Device (1:N)	10,000 profiles
	Per Account (1:N)	unlimited profiles
	Throughput	30 People Per Minute
	Authentication Range	7" - 72" (17.7cm - 182.9cm)
Connectivity	Access Control Input & Output	Wiegand, OSDP
Tamper	On-Board Tamper	Yes
Video	FOV	110 °H x 90 °V
Network	Network	10/100/1000BASE-TX
	ONVIF	ONVIF® compliant with Profile S, Profile T
	Security	TLS 1.2 encryption, 802.1x port based authentication*
Electrical	Power Source	PoE+: UL294B Listed PoE+ Source recommended
Environmental	Operating Temperature	-20 °C to +66 °C (-4 °F to 150 °F)
Certifications	Certifications/Directives	UL, ULC, CE, ROHS, Reach (SVHC), WEEE
	Environmental	IP4X Weather Rating, IK4 Impact Rating

* Coming 2H21

Built for Physical Access Control in Education

- As easy to set up as a badge reader
- Uses existing Wiegand / OSDP wiring
- Works with any access control system
- POE+ connectivity
- Enterprise-grade networking & security
- On-prem and Cloud options
- 1FA & 2FA hybrid options