



Runergy PV Technology in Thailand Access Control Solution for Large-scale Manufacturing Base of Solar Cell

Industry

Manufacturing | Research & Development | Solar Cell

Location

Thailand

Solution

Access Control

Client Overview

Jiangsu Runergy New Energy Technology Co., Ltd., established on 10th May 2013, is a leading manufacturer of solar cells in the industry committed to realizing the corporate's vision of creating wealth, value and clean energy for the society. Since its establishment, the company has seized the global new energy development opportunities and focused on the research and development and production of high-efficiency solar cells. According to PV InfoLink's statistics, in 2020, 2021, and the first half of 2022, the company's solar cell sales was ranked third in the world.

ZKTeco is honoured to have had offered an access control management system for the solar cell manufacturing base of Runergy PV Technology (Thailand) Co., Ltd., which is a subsidiary of Jiangsu Runergy in Thailand.



Solution Details

The clients needed an efficient access control system for their large-scale workforces accessing and exiting the main entrance and different areas of the manufacturing base.

Challenge 1

Apart from the main entrance, there are over 60 locations that requires access control management in different areas of the manufacturing base.

Solution

ZKTeco deployed an SBTL2000 Swing Barrier with a ProID10WM RFID Card Reader as the main entrance gate of the manufacturing base. For the other 69 access points in the manufacturing base, ZKTeco also deployed at each a ProID10WM RFID Card Reader.

All staffs are issued with their own staff cards with their personal information stored. In order to access and exit, they are only required to swipe their cards over the card readers.

ZKTeco SBTL2000 Swing Barrier offer speed of throughput as quick as 30 time per minute, which enables it to easily cope with large access and exit flows even in the peak hours.

ProID10WM RFID Card Reader also enables ultimately quick reading speed as $\leq 300\text{ms}$ for smooth and efficient access & exit.

Challenge 2

Our client researches, develops and produces a great quantity of pioneering technologies and innovative products, and the related personnel, confidential information and production and manufacturing facilities are stored in the base. Thus, it is expected to enhance the security level in certain critical areas like manufacturing workshops or offices than other areas.

Solution

ZKTeco deployed at the critical areas 7 units of TS2000 Pro Tripod Turnstiles. At each access & exit channel, 2 sets of SpeedFace V5L Hybrid Biometric Recognition Standalone Terminal, one for access and another for exit.

Staffs who are authorized the access the critical areas are registered with their face images in the database. To access and exit the areas, they are required to have their faces scanned by the SpeedFace V5L terminals.

The terminals are equipped with advanced Visible-light Face Recognition function, enabling it to precisely recognize face images within 1 second. With the pioneering anti-spoofing face recognition algorithm, it effectively identifies print attacks, including laser, coloured and black & white images, video attacks and even 3D mask attacks.



Challenge 3

The manufacturing base is ultimately large in size, and the access points are separated in different zones, which could result in difficulty in the monitoring and the prompt handling of any security abnormality.

Solution

All the devices are connected to the InBioPro Series Access Controllers and are centrally managed by the ZK BioCVSecurity Access Control Management Software, all access and exit records are transferred to the software for unified management. Manual collection of every device is no longer needed.

The InBioPro Series Access Controllers are enabled with advanced access control functions including global anti-passback and global linkage. In case any security abnormality like tail gating, illegal break-ins or device damages is inspected, prompt notifications will be delivered to the software for instant handling of security events.

Configurations

System	Device Name	Device Model	Device Quantity
Access Control	Tripod Turnstile	TS2000 Pro	7
	Swing Barrier	SBTL2000	1
	ProID10WM	Card Reader	70
	Hybrid Biometrics Standalone Terminal	SpeedFace V5L	14
	Access Controller	InBio Pro 460	9
	Access Controller	InBio Pro 260	16
	Access Controller	InBio Pro 160	8



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