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Technical Column

Guideline for Face Recognition

Some advice for face recognition of users wearing masks also include. To enhance the usertechnologies due to not only the simple experience and achieve exceptional authentication accuracy, it is highly recommended to comply with the guidelines.

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How To Cleanly Use And Disinfect Suprema Products

This article is intended to guide on how to clean or disinfect the Suprema products hygienically and safely. Additionally, it covers items that must be understood when cleaning the product.

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Suprema's fingerprint recognition algorithm against dry fingerprints

In either cold or dry environments, the state-ofthe-art fingerprint sensor applied to Suprema's products demonstrates performance that far surpasses other companies' fingerprint sensors. for Face Recognition With its state-of-the-art fingerprint sensor and superlative algorithm, Suprema provides performance that is about 31 times higher indoors and about 19 times higher outdoors than practical face recognition system. Active other companies' products.

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Security Threats to Face Recognition

Multiple sub-IDs of FaceStation

This article is intended to guide face recognition. Face recognition is gaining much more attention relative to other biometric recognition convenience it provides but also its ability to avoid various privacy issues. As facial information is publically displayed, there is little concern for a user to show his face to the device.

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Suprema's Fingerprint Algorithm

Suprema has developed a fingerprint verification algorithm, which has been proven to be one of the most advanced technologies in Fingerprint verification contest (FVC). It is the core technology of our company, which can be applied to the embedded module, PC authentication library, and various application products.

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Adaptive IR Illumination Technology

Variations in background illumination have always been one of the main challenges for a illumination based face recognition techniques are considered to be one of the most promising and practical methods used to solve illumination issues in indoor applications.

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and FaceStation 2 Technology

The authentication through face recognition is as prone to spoofing as fingerprint-based methods. Human face is one of the most common and Is its security also vulnerable to similar methods?

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Suprema Multi-dynamic Range (MDR) Technology

Compared to the fingerprint access control devices installed in a fixed position, fingerprint authentication scanners are more likely to be used in a varied positions and locations.

in selected BioMini models, namely BioMini Plus fingers, dust, or other sources. This 2, BioMini Combo and BioMini Slim. MDR technology delivers greater benefits to mobile authentication applications where fingerprint scanners are connected with mobile devices in varied locations and positions.

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BioStar 2 and Web Security

This article explains the differences of the two security protocols (HTTP and HTTPS) that are being by used by BioStar 2, which is a webwhy HTTPS should be used.

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Smart Enrollment Technology for **Face Recognition System**

non-intrusive biometrics used to identify individuals. It is much more universal, acceptable and easier to access than a fingerprint. Recently, the use of face recognition technology in cooperative biometric systems such as access control, time & attendance and PC security is increasing.

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How to clean fingerprint sensors

Suprema's patented MDR technology is available The fingerprint sensors can be soiled by user's contamination may affect image quality, degrading authentication performance.

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RS-485 Wiring Guide

RS-485 signaling relies upon balanced and differential signaling scheme, and has many advantages over unbalanced signaling such as RS-232, such as strong noise immunity and multi drop configuration capability. These are the most frequently-asked questions on using RSbased security platform, and explains the reason 485 signaling systems, which are worth reading before designing a RS-485 BioStar network system.

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Hyper Data Transfer for BioStar 2

The available memory bandwidth and increasing CPU performance outpace that of I/O devices. As This article is intended to introduce a basic a result, handling the I/O operations perfectly is application guide for relays in access control the key point for designing a system architecture. For this reason, the BioStar 2 server adapted an asynchronous system architecture for handling network I/O operations, relay lifespan. Before taking a deep look into the asynchronous

Proper Use of Relays

devices. Additionally, a means to prevent undesired arcing in relay contacts is proposed, to suppress unintended radiation and maintain system architecture, let's understand the synchronous system architecture first.

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New Image Compression Technology of SFM5500 Series

The SFM5500 series overcame this problem and have been equipped with the new technology to compress fingerprint images and quickly send high quality images via a low bandwidth network environment. When compressing, the quality degradation is minimized (Figure 2), but the data size is lowered by 90%, reducing the time it takes to be sent by 90%, as well. Moreover, you can set the system to compress images in different levels, enabling you to appropriately adjust the transfer speed and the image quality according to its use.

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Next Generation Verification Scanner, BioMini Slim

BioMini Slim, the world's thinnest PIV certified FAP20 optical scanner, is made using key optical technology, image acquisition and algorithms accumulated over 10 years. It is a new concept scanner overcoming the available environmental limits of existing scanners and is optimized for the mobile environment.

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