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#### **Technical Column**

#### **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. avoid various privacy issues. As facial

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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. 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 applied to the embedded module, PC other companies' products.

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# **Security Threats to Face Recognition**

and FaceStation 2 Technology

The authentication through face recognition is as prone to spoofing as fingerprint-based methods. Is its security also vulnerable to similar methods?

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## **Suprema Multi-dynamic Range** (MDR) Technology

Compared to the fingerprint access control

#### Multiple sub-IDs of FaceStation

Face recognition is gaining much more attention relative to other biometric recognition technologies due to not only the simple convenience it provides but also its ability to 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 authentication library, and various application products.

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## Adaptive IR Illumination Technology for Face Recognition

Variations in background illumination have always been one of the main challenges for a practical face recognition system. Active 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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devices installed in a fixed position, fingerprint authentication scanners are more likely to be used in a varied positions and locations. Suprema's patented MDR technology is available Human face is one of the most common and in selected BioMini models, namely BioMini Plus 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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### **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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#### **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 webbased security platform, and explains the reason contamination may affect image quality, why HTTPS should be used.

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#### How to clean fingerprint sensors

The fingerprint sensors can be soiled by user's fingers, dust, or other sources. This degrading authentication performance.

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#### **Hyper Data Transfer for BioStar 2 RS-485 Wiring Guide**

The available memory bandwidth and increasing RS-485 signaling relies upon balanced and CPU performance outpace that of I/O devices. As differential signaling scheme, and has many a result, handling the I/O operations perfectly is 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. 485 signaling systems, which are worth reading Before taking a deep look into the asynchronous before designing a RS-485 BioStar network system architecture, let's understand the synchronous system architecture first.

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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 RSsystem.

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#### **New Image Compression Technology** of SFM5500 Series

The SFM5500 series overcame this problem and devices. Additionally, a means to prevent have been equipped with the new technology to undesired arcing in relay contacts is proposed, compress fingerprint images and quickly send high quality images via a low bandwidth network relay lifespan. environment. When compressing, the quality

### **Proper Use of Relays**

This article is intended to introduce a basic application guide for relays in access control to suppress unintended radiation and maintain degradation is minimized (Figure 2), but the dataREAD MORE 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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