CVX021 Contactless Facial Recognition Terminal with Infrared Thermometer
Ensure health and safety when continuing or returning to work after the COVID-19 epidemic. Traditional access control often has a touched component like a shared keypad, cards, keys, or fingerprints all with the potential to spread germs. Industries are now taking steps to protect their people and facilities through new no contact methods. The CVX021 is an excellent solution for contactless access control and applies to numerous industries.

Disadvantages of traditional access control systems include germs spreading by keypad or fingerprint and the need for a password, card or key.

The CVX021 is an excellent solution for no contact access with temperature check

www.TURNSTILES.us / www.EntraPASS.us / patrick.mcallister@turnstiles.us / 303-670-1099
CVX021 Contactless Facial Recognition Terminal with Infrared Thermometer

The CVX021 is a high-performance face recognition reader with built-in infrared thermal detection. The technology behind this device was developed to better prevent the spread of viruses and illnesses by rapidly identifying fever and therefore potential cases. This truly unique biometric reader supports facial recognition even with a face mask on.

- Spot people with elevated temperatures
- Allow access by a permitted temperature range
- Identify users so that they can keep their masks on at all times
- Flag people who aren’t wearing protective coverings

PRODUCT FEATURES

- Infrared Thermal Scanner detects an elevated temperature
- Temperature measurement accuracy: Plus or minus 0.3 degrees Celsius
- Supports Facial Recognition even when wearing a face mask
- Supports 20,000+ faces in the database
- 8-inch HD Highlight LCD Touch Screen Display
- Internal Star Light Wide dynamic-level camera with automatic exposure.
- Optimal imaging in complex lighting environments
- In-depth learning algorithms designed for speed and accuracy
- Monocular-visible living algorithms, support for photos, videos, anti-spoof
- Support for multiple recognition modes: Face, Face + Card, Smart Cards
- Built-in wide dynamic infrared camera and temperature measurement module
- The device uploads directly to a data network in real-time and learns faces with ‘cached’ images
- Uses new or imported identification numbers
- Face blacklist controls can integrate with police photo ID database
- Supports logon management, query and set device parameters, data import/export
- Supports USB interface to an external ID card reader (Optional built-in ID card reader)
- Authentication result output in fixed voice prompts
- Relay switch output through international standard Wiegand protocol (W26 \ W34)
- Waterproof design, suitable for outdoor use, Post or Wall Mounting

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The CVX021 terminal incorporates thermal imaging cameras to help spot people with elevated temperatures and can send pop-up alerts to users of the software. Mounted on a post, wall, door frame, or turnstile, the scanner can be programmed to allow access by permitted temperature range. It supports facial recognition even when users are wearing a mask - using a powerful embedded camera and the latest face and demographic recognition algorithm. The camera reads the facial characteristics that are not covered, including eyes, eyebrows and parts of the nasal bridge to identify users so that they can keep their masks on at all times while still gaining access to their facilities. It can also be used to flag people who aren’t wearing the protective coverings and require them to wear a mask to gain access to a building.

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Infrared temperature thermometer

All aluminum housing

Wall mounted type

Wifi integrated

Temperature measurement distance up to 1 meter

6mm HD camera

8 inch Touch screen

Integrated card reader

Column type

Android system
Android 5.1 system, Quad core CPU
8 inch touch screen

Long distance recognition
Face recognition distance: 0.3-2m
Temperature recognition distance: 0.7-1m

Capacity
Face ID: 20,000 pcs
Record: 100,000 pcs

Contactless recognition
No need to touch the equipment, it can much more convenient for hygiene

Stability
Different angles/ different light face changes can be accurately identified

High accuracy
Infrared thermal imaging module, temperature measuring accuracy ±0.3°C

Development
Support multiple API and SDK docking for secondary development

Diverse application
Supporting expansion of various peripheral devices such as ID card reader, fingerprint instrument, IC card reader etc.
WIRING TERMINALS
# CVX021 Contactless Facial Recognition Terminal with Infrared Thermometer

## PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
</tr>
</thead>
</table>
| Host computer | system: Android 5.1  
                   CPU: Rockchip RK3288K Quad-CoreCortex-A17, clocked at up to 1.8GHz, Industrial master  
                   RAM: 2GB DDR3  
                   hard disk: 8GB EMMC |
| Camera    | RGB: 1 / 1.8inch SONY IMX385 Super Star Class Progressive scan 2.1 million pixel CMOS image sensor  
                   Infrared (Optional): 1 / 2.8inch WDR progressive scan 130 Megapixel CMOS image sensor, 3 850nm Infrared lights  
                   Wide Dynamic: 120dB  
                   Shot: 6mm/ RGB  
                   Infrared cameras: ≥100dB |
| Display   | Size: 8 inches/ Full view/ Highlight  
                   Resolution: 800 * 1280 Portrait  
                   Screen elevation: 0 to 30 degrees adjustable shaft  
                   Touch screen: stand by |
| Performance | Recognition time: ≤0.6s (Twenty thousand people face database)  
                   Identification: Resident Identity Card, Mi-fare/ NFC card, face  
                   Face verify the accuracy rate: ≥95%  
                   Passing rate: 99%  
                   Error rate: 0.01%  
                   Facial recognition distance: 0.3M ~ 2.5M  
                   Face Capacity: No limit, it is recommended 20000  
                   Algorithm suitable for race: Full race (yellow / black / white / Latin, etc.)  
                   Vivo detection: Support, monocular visible in vivo discern |

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## PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optionally, binocular infrared + visible live double discrimination</strong></td>
<td>Supported alerts for “not wearing masks”</td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
<td>10°C to 50°C, indoor windless</td>
</tr>
<tr>
<td><strong>Temperature measurement accuracy</strong></td>
<td>± 0.3°C</td>
</tr>
<tr>
<td><strong>Temperature resolution</strong></td>
<td>0.1°C</td>
</tr>
<tr>
<td><strong>Temperature distance</strong></td>
<td>0.5 - 0.75m</td>
</tr>
<tr>
<td><strong>Angle of view</strong></td>
<td>90° (H) * 90° (V)</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>200mS</td>
</tr>
<tr>
<td><strong>Batch entry</strong></td>
<td>Stand by</td>
</tr>
<tr>
<td><strong>Management Platform</strong></td>
<td>Support, B / S Architecture</td>
</tr>
<tr>
<td><strong>Interface features description</strong></td>
<td>A switch input</td>
</tr>
<tr>
<td><strong>Switch</strong></td>
<td>1 channel output gate opening/ Dry contact</td>
</tr>
<tr>
<td><strong>Wiegand</strong></td>
<td>Wiegand input channel 1n, support Wiegand26withWiegand 34</td>
</tr>
<tr>
<td></td>
<td>Channel 1 output Wiegand, Supports Wiegand26withWiegand 34</td>
</tr>
<tr>
<td><strong>The internet</strong></td>
<td>A RJ45 10M / 100M Ethernet interface adaptation</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>USB OTG</td>
</tr>
<tr>
<td><strong>Card Reader</strong></td>
<td>IC card Optional</td>
</tr>
<tr>
<td></td>
<td>ID card Optional</td>
</tr>
<tr>
<td></td>
<td>ID card Optional, ID card reader can support and IC card</td>
</tr>
<tr>
<td><strong>Common Characteristics description</strong></td>
<td>Power supply DC12V</td>
</tr>
<tr>
<td><strong>Size (WxHxD)</strong></td>
<td>Column 130 * 292 * 34mm</td>
</tr>
<tr>
<td></td>
<td>Wall-mounted 130 * 292 * 34mm</td>
</tr>
<tr>
<td></td>
<td>Floor-standing 200 * 1505.3 * 300mm</td>
</tr>
<tr>
<td><strong>Jobs surroundings</strong></td>
<td>-30°C - +75°C, ±90% RH</td>
</tr>
<tr>
<td><strong>Protection class</strong></td>
<td>IP66</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Standing or wall mounted or floor mounted</td>
</tr>
</tbody>
</table>