

Broadway 3D® Walk through identification

Broadway 3D® is equipped with a 3D vision system, which “remembers” the unique three-dimensional shape of the face. Unlike human vision, however, the device is able to differentiate nuanced geometry with accuracy of up to fractions of a millimeter, enabling it to tell apart identical twins and making the Broadway 3D® one of the most accurate biometric devices.

Identification takes a split second. Walk past and simply glance at the device and it will recognize the identity of thousands previously registered people.



Artec ID



Artec

Purpose

The Broadway 3D currently provides the highest security level of access control.

Broadway 3D reads biometric information about face shape, compares it with those biometric templates registered in the database, and makes the decision to issue control signals to actuators controlling access to premises (turnstiles, locks, gates, etc.)

Broadway 3D can also complement existing access control systems that are based on other identification technologies, in order to improve their reliability and functionality.

Moreover, the device can be used with ATMs, electronic information kiosks, payment terminal, customer loyalty program stations for identity authorization, etc.

Ease of Use

Unlike the other biometrics, the 3D face doesn't require direct physical contact or exact positioning. The Broadway 3D® identifies walking people regardless of their age or height.

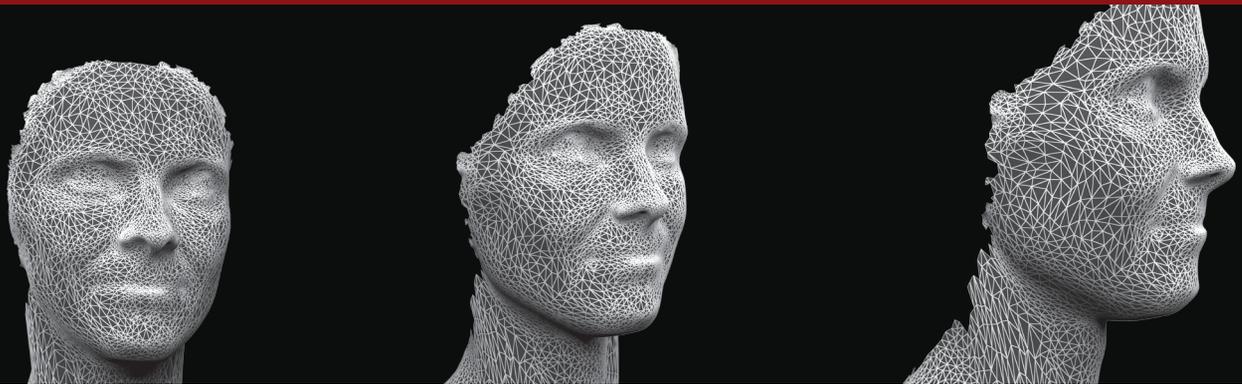
Reliability

The Broadway 3D® currently provides the highest security level of access control. Access is granted only if there is a match between the person's face and his stored 3D image in the database. Recording of the 3D image allows for statistics data gathering and detection of unauthorized access attempts. The Broadway 3D® will not be fooled by a user in make up or a stolen badge or keycard. This device eradicates the “human factor” mistakes, for instance, when a security guard's attention diminishes due to an influx of people at the ACS.

Safeguarding personal information

Unlike the other biometrics, 3D face identification doesn't carry the risk of private data being used against the person since the geometric dimensions of a face is “public information”. That information is used in most identification methods in a form of a photograph.





A time saver

The Broadway 3D® capacity reaches up to 60 people per minute even with large databases (>5,000 templates). This increases the throughput capacity of any checkpoint or gate, and makes keycards and badges obsolete all the while retaining a high level of security.

Protection against loss or theft of a badge

In cases where keycards or badges are used, the Broadway 3D® protects against an unsanctioned use of stolen, lost or transferred cards. When granting access, the device not only checks the authenticity of the card itself, but also the identify of the person using the card.

Work hours audit

The Broadway 3D® allows you to automate and enhance employee attendance record keepingsystems and eliminates the danger of falsification.

Administration and database management software included

The Broadway Management Console (BMC) is a server-based software with capability to store and configure the central database, collect the time and attendance statistics and provide the Broadway 3D® status monitoring.

Simple Integration

The Broadway 3D® quickly and easily integrates into an existing access control system (ACS). There is no need to change the current ACS or get rid of badges/key cards. Each user can choose a scenario that works best for their company, for this purpose there are hardware interfaces (Dry contact and Wiegand) and SDKs (Broadway 3D SDK and Database SDK).

Contactless identification

Identification in motion

High-quality 3D measurements of human face

Fast recognition with hats and sunglasses

Recommended database in identification mode: 5000 templates

Unlimited Database in verification mode

Visual indication

Simple integration

No hazardous radiation emission

Light source: *flash bulb (no laser)*

Recognition time: *less than 1 s*

Enrollment time: *less than 2 s*

Biometric template size: *3.5 Kb*

Self-sufficient throughput: *up to 60 people per minute*

Recognition distance: *0.8 – 1.6 m*

User Interface: *Wiegand in/out, Relay*

Administration Interfaces: *Ethernet*

Video frame rate: *up to 15 fps*

Angular field of view: *HxW: 44x34°*

Exposure time: *0.2 ms*

Dimensions/Broadway 3D B, HxDxW: *1657x230x230 mm*

Weight/Broadway 3D B: *15 kg*



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