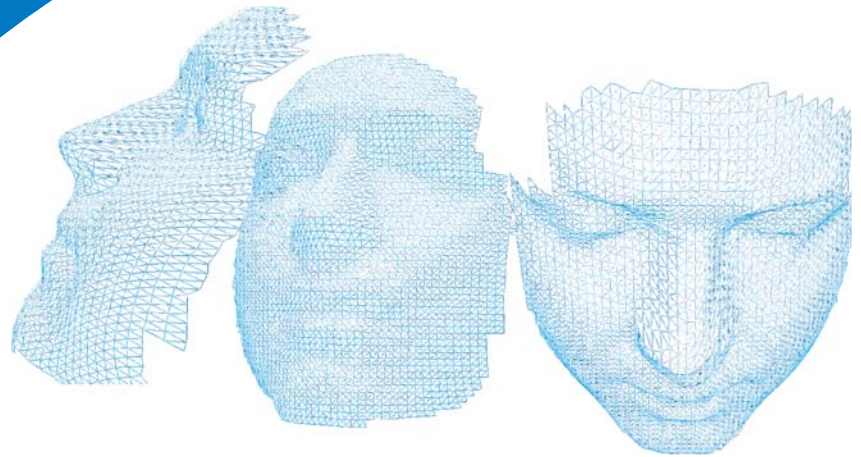




A4 Vision

Application for Vision



VISION 2D/3D ICAO CAMERA

A4Vision develops advanced identification solutions using breakthrough 3D face recognition technology. Through innovations in 3D data capturing and processing capabilities, these systems permit industry-leading accuracy in real-time facial recognition and tracking.

The Vision 2D/3D Camera is used to capture 3D images for the building of biometric 3D face templates and for verification at control points. The device is designed with A4Vision's advanced optical technology, structured light, and algorithms, utilizing a special projector and digital camera for capturing the 3D image. The output of this equipment is both a 3D image and a 2D color image of the subject that is captured simultaneously during the enrollment or the verification process. The camera is capable of capturing 2D images that comply with ISO/IEC CD 19794-5 (Standard for ICAO compliant 2D images for machine readable documents).

3D Technological Advantages

Invariance to light: Using near-infrared range and direct ground-based measurements available from 3D images the solution is tolerant to ambient light conditions.

Invariance to angles: Real-time video feed exploits the richness of 3D parameters, performing recognition with full head motion of up to 30' degrees each direction.

3D Image Uniqueness: The richness of extracted facial measurements and data points is sufficient to distinguish between identical twins.

Processing Speed and Accuracy: Real-time video 3D face capture and processing speeds of 10-12 full capturing-matching cycles per second allow for extremely low False Rejection Rates (FRR), even when the False Acceptance Rate (FAR) is set close to zero (.0001), proving A4Vision is the industry leader in processing and accuracy.



FEATURES AND BENEFITS

Advanced Technology: Feature extraction algorithms coupled with advanced optical technology allow for rotated face recognition in a continuous range of angles. Due to the near-infrared range of the projector and camera, invariance under light and illumination is automatically achieved. Advanced reconstruction algorithms perform real-time matching and recognition while simultaneously overcoming processing constraints inherent in competitive 3D facial recognition technology.

Non-Invasive: Working in invisible infrared light, our solution is capable of passive recognition with high performance results in real life environments. A4Vision technology is non-invasive, requiring neither contact and minimal user cooperation.

Compatibility: Compatible with existing physical access control applications and a wide range of external readers, including laser, magnetic stripe, Wiegand, proximity, and other biometric devices.

Integration: The Vision™ SDK, allows the enrollment station to be easily integrated with new and existing third-party products such as advanced security solutions, access control and time and attendance applications.

Ergonomics: Optimal ergonomics allow for fast and easy face positioning result in instant recognition within less than 1 second from the time a subject appears within the view field.

2D/3D ICAO CAMERA SPECIFICATIONS

Verification Time

Less than 1 second

Identification time:

Less than 1 second

Enrollment time

3-5 seconds

Supported platforms:

Microsoft Windows 2000
Microsoft Windows XP Professional

Primary Power

12 VDC ± 5%, 1.5A

Indication

4 inch LCD

Termination

- Video – Three Composite (RCA)
- Reader connection- Pigtail

Wire Requirements

- Power – Supplied with unit
- Video Out:2 – Composite (RCA)
- Video In: 1– Composite (RCA)
- Card Reader - One 8 conductor twisted pair with shield 24 awg 500'(150m)
- Communication – RS 485

Reader Data Inputs

Wiegand (data 1/data 0)

Reader Power

12 VDC, 1.5A max

Dimension

4.69"W x 11.5"H x 5.98"D (119 x 292 x 152mm)

Weight

60 oz (1.7kg)

Operating Temperature

(59° F to 86°F) (15°C to 30°C)

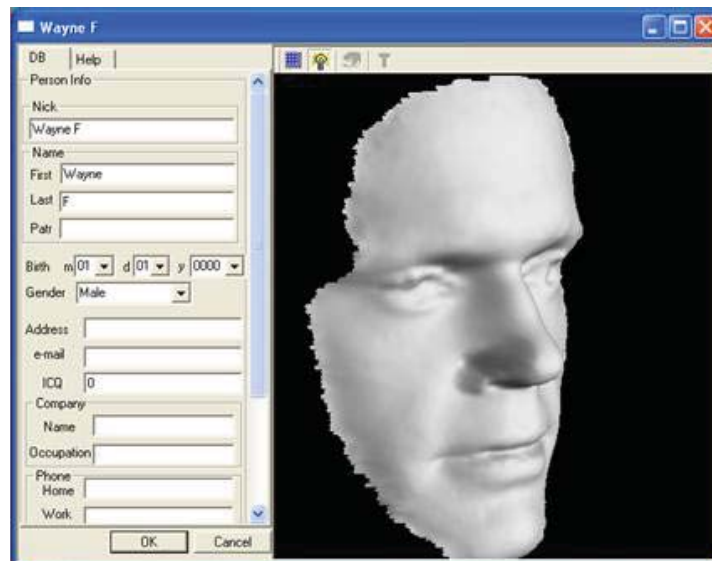
Humidity

15% to 65% (Indoor use only)

2D Camera

- 1632x1216 Active Imaging Pixels
- Low Noise
- Video and Snapshot Operation
- USB 2.0 Interface
- Real time video acquisition

A4Vision can substitute the 2D camera to comply with 3rd party specifications pending qualification by A4Vision.



CONTACT INFORMATION

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