

# CYBER EXTRUDER

## High performance 3D face recognition

The facial recognition software you've been waiting for.



Fast, Accurate, Scalable:  
Real-time Facial Recognition



# Real Return on Your Customers' Investment

Aureus 3D helps you deliver fast, scalable facial recognition solutions to meet your customers' current and evolving needs, and real return on your customers' investment.

Our patented 2D to 3D pose correction technology—with deep convolutional neural network algorithms—offers exceptional performance and meets real-world challenges such as lighting, pose, occlusions, motion, crowds and expression.

With industry-leading speed and a 128-byte template size, Aureus 3D is nearly 5X smaller than similar software, requiring less memory. Easily deployed, Aureus 3D's industry-leading speed, match accuracy and lower cost enables speed to market with operationally viable facial recognition solutions.



**Fast:** 25 million comparisons per second



**Accurate:** Limitation-free 3D matching—light, pose, occlusions, motion, crowd or expression



**Scalable:** Scales easily and economically with low system & storage requirements

# Fastest Facial Recognition Software Available

Easy to install and integrate, Aureus 3D is the fastest facial recognition software available. On a base system with a 3.4Ghz CPU, Aureus 3D generates a template in 50 milliseconds (nearly twice as fast as the industry standard) and compares two templates in 0.040 microseconds (25 million comparisons per second, more than 15 times faster than our nearest competitor).

Aureus 3D was designed from the ground up using industry standard protocols and development environments. Our facial recognition engine works with any IP or USB video camera, or video archival file, and conveniently communicates with third party applications via XML.

- Overcomes the challenges of subject pose, expression, partial facial occlusions and environmental lighting, and optimizes the competitive advantage of 3D over 2D technology.
- Live and offline high speed face searching and matching.
- 2D to 3D pose correction technology with deep convolutional neural network algorithms to deliver unparalleled performance when processing live video streams or archived video files.

## Most accurate face matcher in the industry:

- Accuracy as measured by ROC and Rank 1 testing of publicly available data sets: FERET, LFW, IJB-A, FRGC, PaSC, PUT, China Daily, MUCT.

## How it works

DETECT



AQUIRE



PROCESS



MATCH



# Dominate Your Market

CyberExtruder's Aureus 3D software is the preferred platform for OEM's and Solution Integrators looking to bring Facial Recognition solutions and products to this rapidly expanding market. Aureus 3D enables a broad range of use cases including:

## IDENTIFICATION

Who is that person?

### Law Enforcement

- Mug books and booking systems
- Forensic imaging systems
- Watch lists for real-time FR from live video
- FR in body worn applications
- Safe City Projects
- Forensic or post-event facial searching

### Health and Human Services

- Identifying otherwise undocumented individuals

### Loss prevention

- Identification of known shoplifters
- Pre-empting organized crime events
- Point of Sale monitoring

### VIP and Concierge services

- Financial services
- Hospitality and Casinos
- Retail

### Marketing Analytics

- Anonymous face recognition to compute people analytics and demographic data while protecting privacy for use in operational decisions

## VERIFICATION

Is the person who they claim to be?

### Physical Access Control

- Entry to commercial offices, apartment buildings and schools
- Hospitals, manufacturers and hosting facilities
- Police departments, correctional facilities and courts
- Specialized secure areas like server rooms and pharmacies

### Logical Access Control

- Individual computer and network logon
- Financial services and ATMS
- Healthcare provider segregation (HIPAA) and government benefit assistance
- Customs and Border Control
- Mobile transactions

CyberExtruder's global team is committed to providing the industry's highest performing face matching solutions enabling our partners to build products and solutions that deliver on the full potential of facial recognition. For more information, call us at 1.973.623.7900 or email [info@cyberextruder.com](mailto:info@cyberextruder.com)

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