Aureus Insight

COMPREHENSIVE FACIAL ANALYTICS AT YOUR FINGERTIPS

ACTIONABLE INFORMATION FOR TODAY, SCALING FOR TOMORROW

CyberExtruder's Aureus Insight software was developed to meet the needs of both Governmental and commercial customers whose need for advanced face matching technology has grown as the spectrum of identity, security, surveillance, and access control challenges have expanded. CyberExtruder knows that as the use of facial biometrics increases, our customers will need much more than a basic app that simply compares a pair of images. Mission critical users need a solution that works in the most challenging conditions and still complies with local and/or organizational requirements for personal privacy.

Low resolution video, poorly lit and off-pose faces wearing masks, glasses and hats are common challenges and Aureus Insight is the cost effective, easy to install, easy to purchase, and easy to use solution.

But what about scaling for tomorrow? Aureus Insight is designed to expand as your requirements grow and your network builds. And because it's a completely federated solution, an operator can control all aspects of the platform from any laptop, tablet or mobile phone with an internet connection.

Facial Analytics Made Easy!

In today's challenging environment CyberExtruder knows you need to meet mission critical needs with fewer resources than ever before. Aureus Insight makes it easier to address those challenges head-on and deliver real-time analysis of your video feeds and watchlists.

Easy to Purchase

Whether you choose a traditional licensing plan or a monthly subscription plan, CyberExtruder streamlines the entire purchasing process for you. Ask us how we can help you today!

1

Easy to Setup

Onboarding with CyberExtruder is fast and painless. Our technical support staff is ready to flip the switch to get your cameras connected, your Gallery of images loaded and your alert notices configured right away.

2

Easy to Use

Everyone who tries Aureus Insight says the same thing - "It's so easy to use - it's basically set it, and forget it! Your personal dashboard gives you instant feedback on your Watchlist."

3

Easy to Manage

Because Aureus Insight is the ONLY fully federated solution available, you can manage all aspects of your entire solution from any device, anywhere - including your mobile phone!

4

Easy to Scale

CyberExtruder understands your need to plan for the future while you are deploying today. Limitless flexibility has been built into Aureus Insight so that you can never outgrow your solution.

5

Unbiased Performance

Ethical and responsible development of our software has always been a central tenet for our company. Independent testing continuously re-affirms our algorithm's leadership position. Ask us to prove it!

A User's Guide to Aureus Insight

HOW TO BUILD A ROBUST AND TROUBLE-FREE BIOMETRIC SOLUTION

START WITH A NETWORK OF QUALITY IP VIDEO CAMERAS

- As low as 720p camera frame resolution
- Optimize for 20 frames per second
- 150 pixels per foot resolution on the face

Remember that you can add any number of cameras to your networks as your needs grow!

ADD A GALLERY OF IMAGES

- From Live video Feeds
- From ID photos
- From Social Media
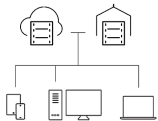- From legacy databases

THEN CONFIGURE YOUR ALERTS

- SMS message on face match
- E-mail alert pictures of matches
- Admit or prohibit access
- Send an audible alarm

Aureus Insight is now ready to protect your property and your privacy!

COMPLETE CONTROL FROM ANY DEVICE, ANYWHERE

- Real-time face tracking
- Create associations with others
- Historic forensic analysis
- From the cloud or your network

Aureus Insight is conveniently licensed based on the number of channels being monitored and the total number of people in the Gallery.
Easily move a license from one camera to another
Quickly add Gallery capacity when you need it.
Traditional and subscription pricing plans are available.

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SECURE, TRUSTWORTHY AND RELIABLE

When you choose a face recognition technology to protect people and critical assets, you should rely on the only platform that provides continuous access and is engineered to mitigate system interruptions - all while offering enhanced security that prevents unauthorized access to sensitive data. Aureus Insight leverages the most innovative tools for monitoring the movements of a person of interest, provides operators with unparalleled access to the camera networks while maintaining a high level of personal privacy for casual bystanders. The algorithms that are the foundation of Aureus Insight have been carefully developed over the last 20 years to ensure when a match is offered with confidence that it is free from gender, racial and age bias. Ethical and responsible development of our software have always been a central tenet for our company. Unlike all other face recognition algorithms that have performance issues with skin tones and gender, the Aureus Insight algorithms were developed with data sets and training methodologies aimed at solving the inherent problems that could lead to bias. As a result of this focus, independent testing has revealed a lack of bias in the Aureus Insight matching engine.

AUREUS INSIGHT LETS YOU MOVE TO THE CLOUD ON YOUR OWN TERMS

In addition to a traditional, perpetual licensing option, Aureus is available as a fully managed service running on public or private clouds. This option reduces the up-front capital requirements of perpetual licenses and replaces it with a monthly payment. Using our subscription plan, you can deploy a fully hosted solution that can scale faster and reduce maintenance costs. Hybrid deployments combining on-premises infrastructure with cloud services are fully supported and our most popular features are available in a single, easy to order subscription that includes automatic updates and support. Not only will you pay lower upfront costs, but you can free up capital for other projects and simplify your budget with predictable payments.

TECHNICAL SPECIFICATIONS

Technology		Video Characteristics	
Automatic Feature (Eye, Nose, Mouth) Detection	Yes	IP video cameras	Yes
Automatic Face Detection	Yes	USB connected cameras	Yes
Automatic Head and Shoulder Detection	Yes	Recorded video files	Yes
Automatic Facemask Detection	Yes	Minimum camera resolution	720p
Automatic Liveness Detection	Yes	Suggested face resolution in frame (on target)	112 ppf
Automatic 3D Face Mesh	Yes	Suggested Minimum inter-occular distance	29 px
Automatic Age Detection	Yes	**Templates**	
Automatic Gender Detection	Yes	Template size	128 bytes
Automatic Face Tracking	Yes	Template generation speed	10/second
Real-time video capable	30 fps	Template comparison speed	0.040 µs
1:1 Matching	Yes	Bulk template generation	Yes
1:N Matching	Yes	**Host Platform**	
Matching Engine Robustness		Windows 64-bit	Yes
Pose - Yaw	90°	Linux 64-bit	Yes
Pose - Pitch	30°	Intel, AMD, ARM Processors	Yes
Pose - Roll	45°	**Benchmark Hardware Specifications**	
Partial facial occlusion (facemasks, hats, glasses)	Yes	Suggested CPU Speed	3.4 GHz
Beards and hairstyles	Yes	Memory (RAM)	8 Gb
Large expressions	Yes	1 million person Gallery stored in RAM	256 MB
Irregular lighting	Yes	1 million person Gallery disk storage	20GB
Tested for the absence of skin tone bias	Yes	1 Million History Items Stored in RAM	200 MB
Low Video Quality, noise etc.	Yes	1 Million History Items Disk storage	20GB