

# BA.net Face AI

## Machine Learning Face Recognition. Focussed On Security Cameras Processing.

### Overview

BA.net Face AI is a powerful face detection, search and recognition solution. Face Detection and recognition are key tools for security professionals.

Though video archiving solutions provide complete records of what happened in the scene, they do not allow for some one to quickly scan people present in the scene to shortlist, target, and identify potential problems.

Face Recognizer provides the following capabilities:

- Detect and log faces
- Recognize faces (with pre-registration)
- Search for similar faces from a single camera or across multiple cameras
- Detect any matches with faces on the watch list and provide alerts.
- **Accuracy 99.38%** (current state of the art)

### Benefits and Applications

- Face detection and recognition based on real time video processing
- Enables security professionals to shortlist, target, and identify intruders, loiterers, and potential problems
- Creates an automated log of people in the camera or scene which can be used for later investigations
- Allows users to track people presence across multiple cameras or locations to identify potential issues or threats
- Enables automated matching against a watchlist with real time alerting
- Increases productivity and efficiency of security professionals.
- Easy to deploy with a wide variety of cameras
- High accuracy
- Ideal for Law Enforcement, Airports, Ports, Critical infrastructure, nuclear facilities, Casinos and Gaming, Financial Institutions and Banks
- Urban and Public area monitoring



## Features and Specifications

- Accuracy CNN Face Recognition accuracy 99.38% (current state of the art) Using the labelled faces in the wild standard benchmark.
- Resolution. Video resolution . Min VGA. Recommended 720p or 1080 p Image resolution . 0.3MP . 5 MP.
- FPS 1-30 FPS. Typical FPS are 20 fps on VGA, ~10fps on 720p
- Pixels on face/eye Face resolution . min 70. Recommended 100-300 pixels Eye distance = min 30. Recommended 50-150 pixels
- Angles. Variations from frontal face: Yaw - +/- 25 degrees Pitch - +/- 25 degrees Roll - +/- 20 degrees
- Contrast and image quality Good crisp and high quality and no-blur images are required. Some variations for: Illumination, variable lighting, shadows, slight blur.- are acceptable.
- Face Database DB volume size Face Databases can be from 1 to 10K
- Real time Recognition real time and off line are possible
- Video vs. Image Recognition and Enrollment from both Video and Image.
- Enrollement, training
- Multiple enrollment per person. Video enrollment for person which captures 5-10 pictures per enrollment.
- Recognition in image and video and Real time
- Recognition in Video mode with multiple images analyzed per face.
- Recognition from single image.
- Face Watch list Detection speed / latency
- Recognition in less than 1-2 seconds in video mode. Image mode immediate.
- Integration with number of VMS and CMS systems
- Watchlist to save and match in real time
- Provide alerts on watchlist matches
- Report on faces recognized
- Search by names or similar faces
- Search by unknown face using an image
- Available with API/SDK for partners and external systems
- Available as Web/Server Application, and through Cloud Interface
- Open architecture and easy integration of alerts via http/XML
- Available on Linux, Cloud solution and embedded systems




## Platform and Hardware

Product is available in 3 platforms: In Server / PC & Integration with other Systems

- Server, PC
- SDK/API and Web services, Rest API - are available for integration with most Cameras, VMS, NVR, DVR systems
- Open architecture and easy integration of alerts via http/XML
- Runs Linux for server based deployment
- 1-16 cameras / PC based on CPU capacity.
- Remote motion detection available for bandwidth and CPU saving
- Standard Intel i3 / i5 / i7 and Xeon CPU
- Check for latest Server / PC Hardware Specification
- Works onLinux, On Cloud Deployments and Easy Windows Integration
- Available as Web/Server Application, and through Cloud Web Services API Interface

## About BA.net/face-ai


BA.net Face AI is your local face recognition solution. With exclusive dedication to the space, available for integration work and 24x7 tech support. You can start simple integration with a starter machine at \$99.00/month

- [Starter Integration Machine \\$99.00/month](#) 
- [12CPUs Machine \\$640.00/month](#)   
(Real Time Processing of 15 HD Cameras)
- [20CPUs Machine \\$1200.00/month](#)   
(Real Time Processing of 30 HD Cameras)



**Face Recognition Business API**

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