



## Facial screening with real-time alarms

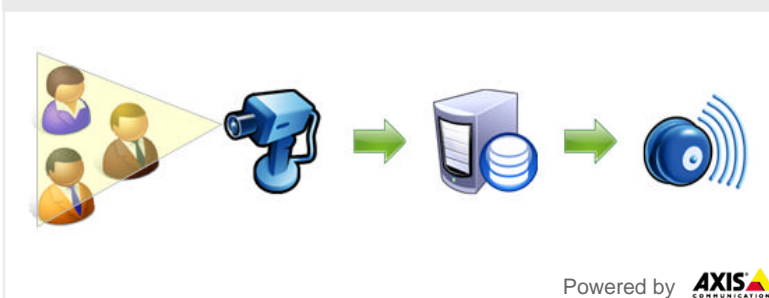


Janus Control is a real-time facial screening system that captures faces through a live video stream from cameras, searches them against predefined watch lists, and generates realtime alarms whenever a match is found. It enhances the efficiency of security and law enforcement personnel by providing a list of possible matches for human verification, so that the operator spends valuable time focusing on people of interest rather than the public at large.

Janus Control is fully compatible with Axis™ network cameras. Based on open IP standards, network cameras connect to any kind of IP network, including the Internet, and enable remote viewing and recording from anywhere in the world. They also provide advanced video analytics features, such as motion detection, audio detection and tampering alarm. You benefit from an extensive selection of network cameras – several with megapixel resolution – which came in different forms to fully meet your requirements.



### How it works



### Market applications

- | Border Crossing
- | Transportation
- | Sensitive Facilities
- | Commercial
- | Retail
- | Banking
- | Casino

## Janus Control Technical Specifications

Platforms Supported	Microsoft Windows XP, Microsoft Windows Server 2003
Input Formats	JPEG, BMP, GIF, DirectShow, Video For Windows
Image Resolution	Minimum of 1280x1024 resolution
Database	Janus Control is database independent and supports an unlimited number of record
Speed	50-300 milliseconds depending on scene complexity One-to-one matching: <1 second One-to-many matching: Comparison rates up to millions per minute depending on hardware
Motion	Detects moving as well as stationary faces
Pose	Technology works optimally when matching frontal images. Face-finding detects faces as long as both eyes are visible. Recognition is not significantly affected by variations in pose up to 15 degrees. From 15 to 35 degrees there is a slight loss in matching ability. Beyond 35 degrees more significant loss of matching may occur
Race and Gender	Performs well on all races and both genders
Robustness to Variability	The algorithm focuses on the inner region of the face and had built-in mechanisms that compensate for natural variability in the face. The result is an engine that is robust with respect to changes in lighting conditions, expression, facial hair, and hairstyle
Eyeglasses	Explicitly designed to match faces with or without eyeglasses, as long as the eyes are visible and not occluded by glare
Lighting	Optimal performance is obtained in diffuse ambient lighting, where the face is evenly illuminated, without shadows or glare. Gain control on cameras can be used to compensate for back-lighting of the face, but cameras can be tricked by excessively bright or dark backgrounds into producing images with overly dark or light faces. An evenness of the lighting in the field of view produces the best results most easily
Background	Finds the faces in an image against any background, plain or cluttered. Recognition performance uses only features on the face, so it is unaffected by the background once the face is successfully located



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