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Cognimatics, the leader in Cognitive Vision, is dedicated to providing efficient and innovative products within its two business segments - Mobile Communications and Intelligent Surveillance.



## Cognimatics Face Tracking™ 1.0

Product Overview  
Cognimatics Personal applications

### Cognimatics Face Tracking™ Leading embedded real time face tracking



Detect and track faces in the camera's view.

Cognimatics embedded software offers leading imaging technology for the mobile communications industry. Based on a sound mathematical foundation, Cognimatics core technology for intelligent image processing provides the means for enhancing your digital photographing experience.

**Cognimatics** Face Tracking™ enables digital cameras and camera phones to detect and follow faces accurately, fully automatically and in real time in the camera's view finder. The technology integrates seamlessly into devices and lets you adjusting important camera parameters for optimal photographic quality. Using **Cognimatics** Face Tracking™, users can capture and create beautiful portraits by using face priority auto focus, auto exposure, and skin color enhancements.

**Cognimatics** Face Tracking™ is built on an innovative and unique patent pending technology for detecting and locking on to faces for tracking in the camera's view finder. The technology is field tested in millions of hand-sets and surveillance products. This is why **Cognimatics** Face Tracking™ is the right choice for you.

**Cognimatics** Face Tracking™ gives software engineers and hardware manufacturers a solid base for optimizing camera parameters in real time;

- Auto Focus – enables camera to focus on off-center subjects
- Auto Exposure – enables exposure priority to be placed on face
- Color Balance – enables color balance settings to be automatically tuned in the presence of skin tones from faces

#### Integration and porting

- Easy to use API firmware interface for integration.
- Written in ANSI C making it portable to numerous platforms.
- Small code size.

#### Features

- Optimized memory and CPU performance for the ARM platform
- Robust and accurate face detection and tracking
- Multi-face tracking and detection
- Multi-angle tracking
- Pixel-layout support for different camera sensor vendors
- Real-time on-camera solution
- Fully automatic.
- Seamless integration through open API.



Keep tracking faces even when turned away from camera. Several faces can be tracked simultaneously.

### Specifications

- CPU: 100 MHz or above
- Memory: 1 MB
- ROM space: 150 KB

#### CONTACT INFORMATION

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#### ABOUT COGNIMATICS

Cognimatics, the leader in Cognitive Vision, has its roots at the Mathematical Department at Lund University, Sweden. Having a team of senior researchers with more than a decade of experience from Cognitive Vision, Cognimatics' technology is built on a solid and sound scientific foundation.

#### COMPANY MISSION

Cognimatics works in close cooperation with the university to take new results from research to the market efficiently.

#### COGNITIVE VISION

Cognitive vision is a field of research, where the aim is to teach computers to interpret images intelligently like humans do. It involves detecting people in pictures, finding objects in pictures, tracking objects and detecting events in video streams. Cognimatics, the leader in Cognitive Vision, is dedicated to providing efficient and innovative products within its two business segments - Mobile Communications and Intelligent Surveillance.

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