

SCORPION BASIC ALIGN VISION APP

SCOPE

The Scorpion Basic Align Vision App locates a corner of any object. It is perfect and very useful in object localisation, an important and common task in machine vision.

APP FEATURES

Scorpion Vision Apps define a completely new entry level in Machine Vision designed for Scorpion Vision Integration and Scorpion Vision OEM.

COMMON FEATURES FOR SCORPION VISION APPS

- Internet Download
- Internet Upgrade
- Deployment with Scorpion Installer
- Based on proven Scorpion Vision Framework
- Licensed to the camera
- Development with Scorpion SDK
- OEM Development upon request
- Multiple Scorpion Vision Apps can run on a single computer



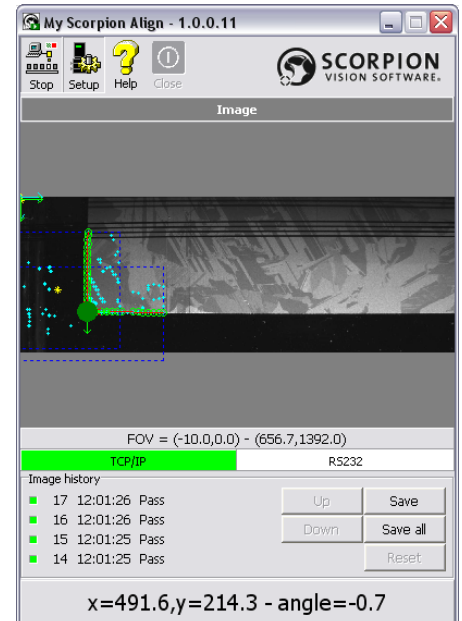
The app runs on the Scorpion Mono Stinger camera from Tordivel AS.

SPECIFICATION

The Scorpion Basic Align Vision App is easy to use. It has a simple operator screen, and is easy to configure without machine vision knowledge.

The app can do the following:

- Locates a corner of an object
 - The corners are located using two robust linefinders
 - The ROI of the linefinders is user defined
- Calculates the reference
 - The reference is defined by the translation and rotation of the object
 - The position (x,y) and the rotation angle is estimated
- User defined coordinate system
- Configurable IO with RS-232 and TCP/IP



Standard Vision App User Interface

CONFIGURATION

The configuration Settings panels are password protected accessible via the Setup button. The panels are easy to use and understand.

GENERAL

The Apps General panel gives information about the vendor. The application name can be defined in this panel.



The App General Settings

APPLICATION AREAS

The Vision App is designed to be used in:

- 2D Robot Vision
- Object Part Alignment
- Object Counting
- Position Verification

The Vision App is easy to deploy and to get working with the Scorpion Mono Stinger camera from Tordivel AS.

♥ **Scorpion Vision OEM**

Product no.
SVA-2011-0003-BasicAlign

APP SETUP

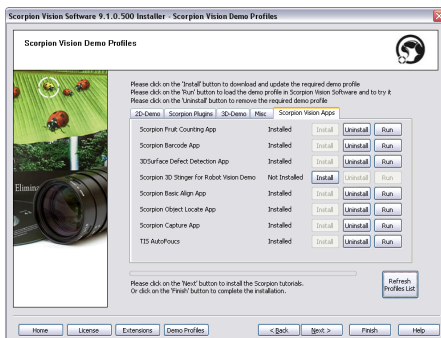
This panel defines the core image processing setup of the App.

The linefinders are defined with a number of trachelines. The length and width of the tracheline are given. The Reference tab defines the App's reference system. The edge threshold defines the sensitivity of the edge detector. The system has two perpendicular linefinders named Top and Center. The system locates the corner when both edge finders locate a line. The line detector parameters are the minimum edgepoints located within the Line Fit Tolerance which defines the line. The center of the Region Of Interest - ROI - of the Top and Right linefinders are user configurable.

SCORPION INSTALLER

The Scorpion Vision Installer manage the Vision Apps installation. The Installer installs first the complete Scorpion Vision Framework and provides tutorials to learn more about Scorpion Vision and Vision Apps.

The Scorpion Vision Apps are downloaded, installed and updated from the Scorpion Server over the Internet.

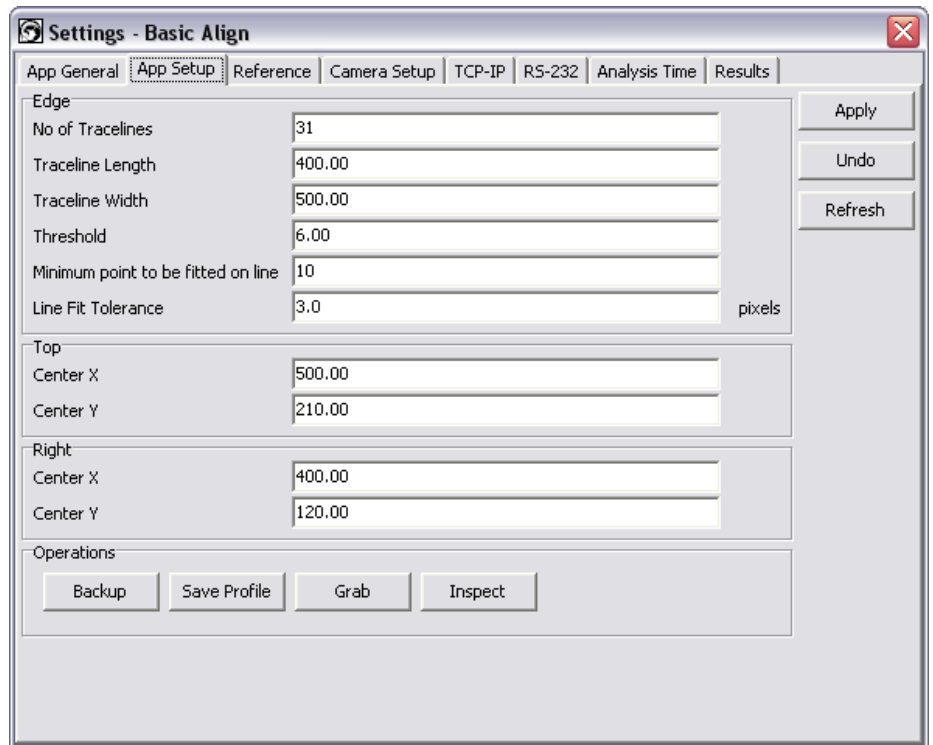


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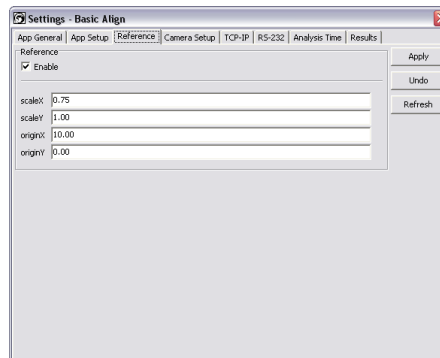


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REFERENCE

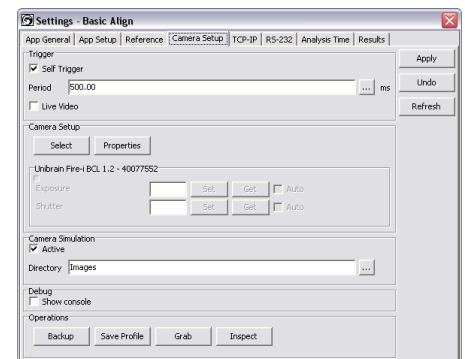
The system reference system is user defined with a default pixel reference system.



CAMERA SETUP

The camera settings are managed over a generic interface. Based on the Scorpion Vision Camera driver framework the Apps supports internal and command based triggering over RS-232 or TCP/IP. Both monochrome and color images are supported.

To verify the App Setup, offline camera simulation mode is available. All camera properties are managed from the Camera Setup panel.



TCP/IP OR RS-232

The App transmits the object location over RS-232 or/and TCP/IP to any host system. The configuration below shows the options for the TCP/IP connection.

