Advantech AE Technical Share Document

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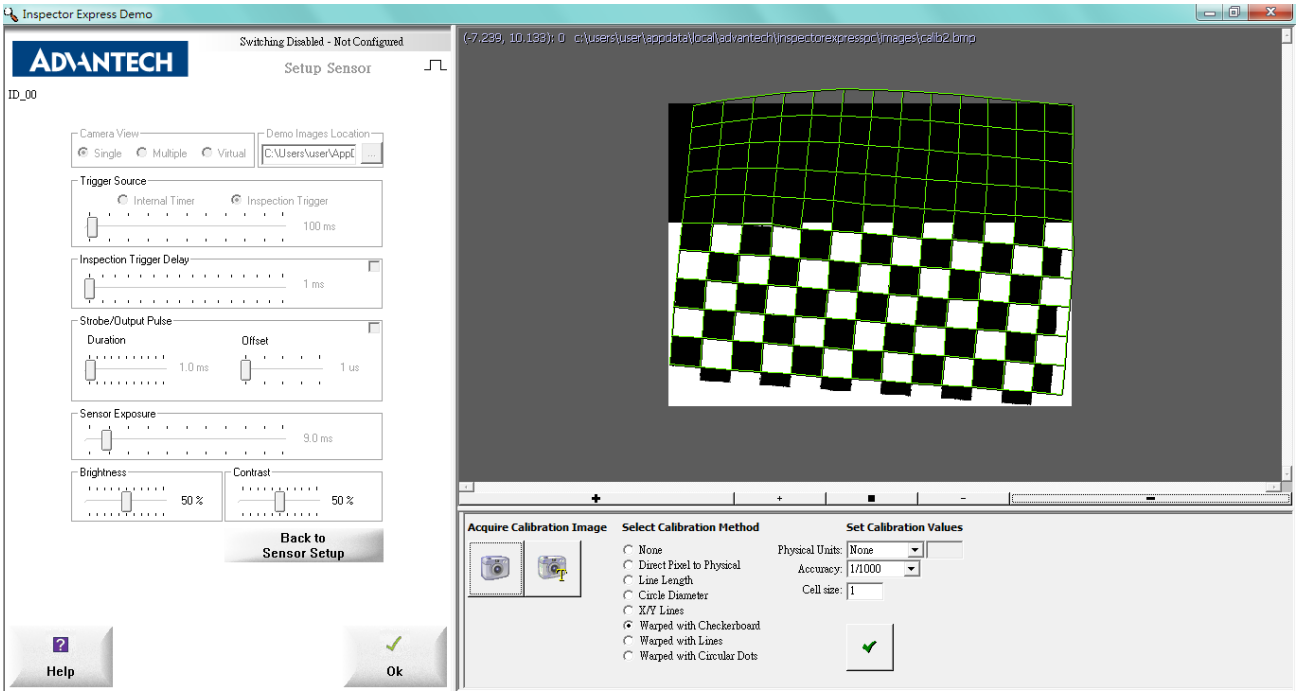
Category	□ FAQ ■ SOP	**Related OS**	
Abstract	Calibrate A Rotated Coordinate System		
Keyword	Calibration, Rotated Coordinate System, Inspector Express		
Related Product	AIN-EX-USBE, AEE-M0640-EXE, AEE-M1024-EXE, AEE-M1280-EXE, AEE-M1600-EXE, AEE-C0640-EXE, AEE-C1024-EXE, AEE-C1280-EXE		

■ Problem Description:

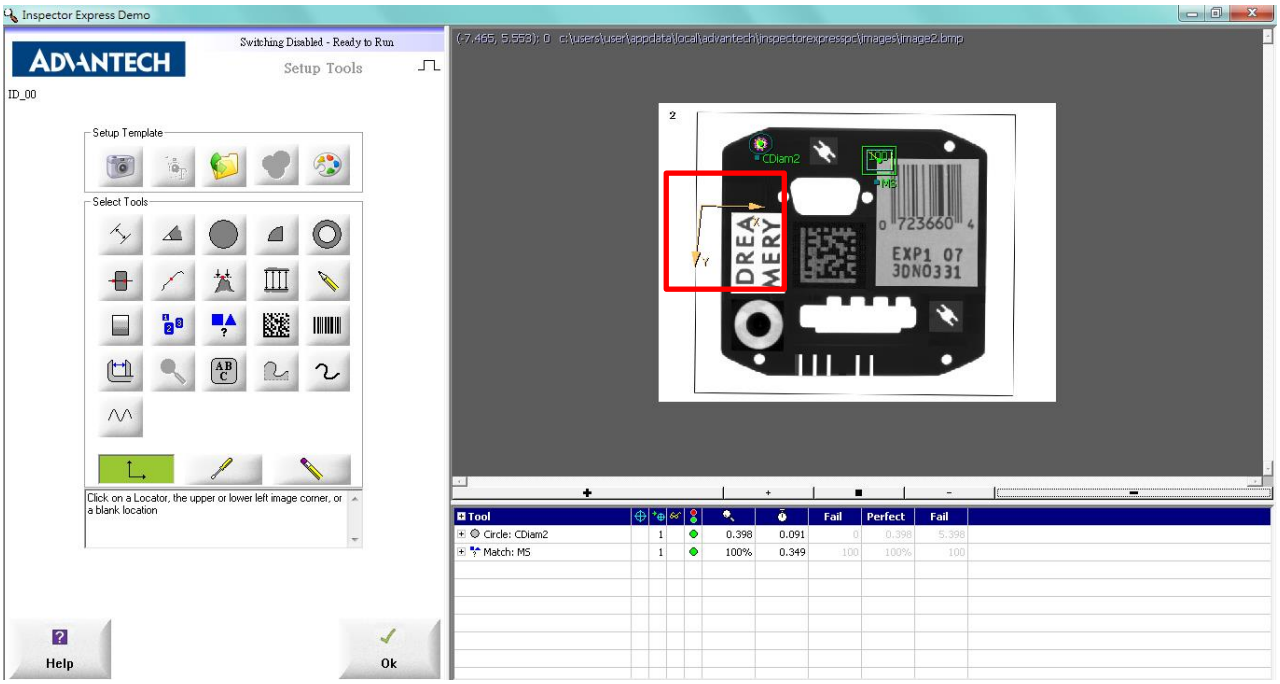
Sometimes in some applications for example a robot system, the coordinate must follow the robot system. It is hard to calculate by simply few line of algorithm. The way calibrating the coordinate system attached to the robot system could be executed using checker board calibration.

■ Brief Solution - Step by Step:

1. The checker board itself must be aligned by the robot moving.
2. As the checker board is placed appropriately, calibrate the coordinate system.



3. The coordinate system is changed and the change could be seen in the Tool setting page—the direction of coordinate axis itself is rotated.
4. Attach the origin to the origin symbol (it could only be a position alignment point) so that the rotation and displacement of the coordinate system are done.


Inspector Express Demo
Switching Disabled - Ready to Run
Setup Tools
ID_00
Setup Template
Select Tools
Click on a Locator, the upper or lower left image corner, or a blank location
Help
Ok
(-7,465, 5,553): 0 c:\users\user\appdata\local\advantech\inspectorexpresspc\images\image2.bmp
CDiam2
M5
Tool
Fail
Perfect
Fail
Circle: CDiam2
Match: M5

■ **Reference**: