



User Cleaning Procedure for Coated TCS1CX/TCS2CX Sensor Devices

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1 Introduction

Key elements of image quality are the consistency within the actual image and the background of the image. Software algorithms are more accurate and generally faster when the image quality is consistent. This is best done when the image background is clean. Dirty residue, oils, or other material on the surface of the TouchChip obscure the image, leaving parts of the image unrecognizable, or creating false features within the image.

Regular use of the TouchChip may leave residue or other foreign materials on the surface. Performance degradation in terms of False Match and False Non Match are indicative of such problems.

It is recommended that before each touch, the sensor be cleaned as described in section 2. It is also recommended that the sensor be visually inspected and periodically cleaned as described in section 3.

2 User Cleaning

Before each authentication, it is recommended that the user simply wipe the sensor slowly with a clean dry finger, and then position the finger for the authentication. This action assures that residue from previous usage will be removed hence giving the best surface conditioning.

3 Periodic Cleaning

Dampen a lint-free cloth or cotton swab with alcohol or acetone. Gently rub the cloth across the sensor surface in a left and right direction. Move slowly down the sensor to cover the entire surface area. Repeat this process 2-3 times. Visually observe that no residual solution remains on the sensor.

If multiple cleanings in a short period of time are needed then the following application note is recommended.

Application Note #7385439 “**Hand and Finger Preparation and Cleaning Recommendations**” preferred hand and finger cleaning methods.

Caution: Abrasive materials are not recommended for cleaning the TouchChip.

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