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操作说明

传感器处理 (如: 抓取位置和 SMD 焊接) 可能会污染光学传感器的表面。玻璃盖上的灰尘和污垢会影响信号质量。本文档向您介绍如何清洁 iC-Haus 光电反射式传感器芯片。

清洁前请仔细阅读所有说明。在一些情况下, 也可以仅使用压缩空气清洁散落的颗粒和灰尘, 而无需接触传感器表面。

物品

- 清洁棉签 (例如: 三洋净化棉签 Huby-340CA-008)
- 异丙醇
- 已安装在评估板上的 iC-PX,iC-PZ,iC-PR

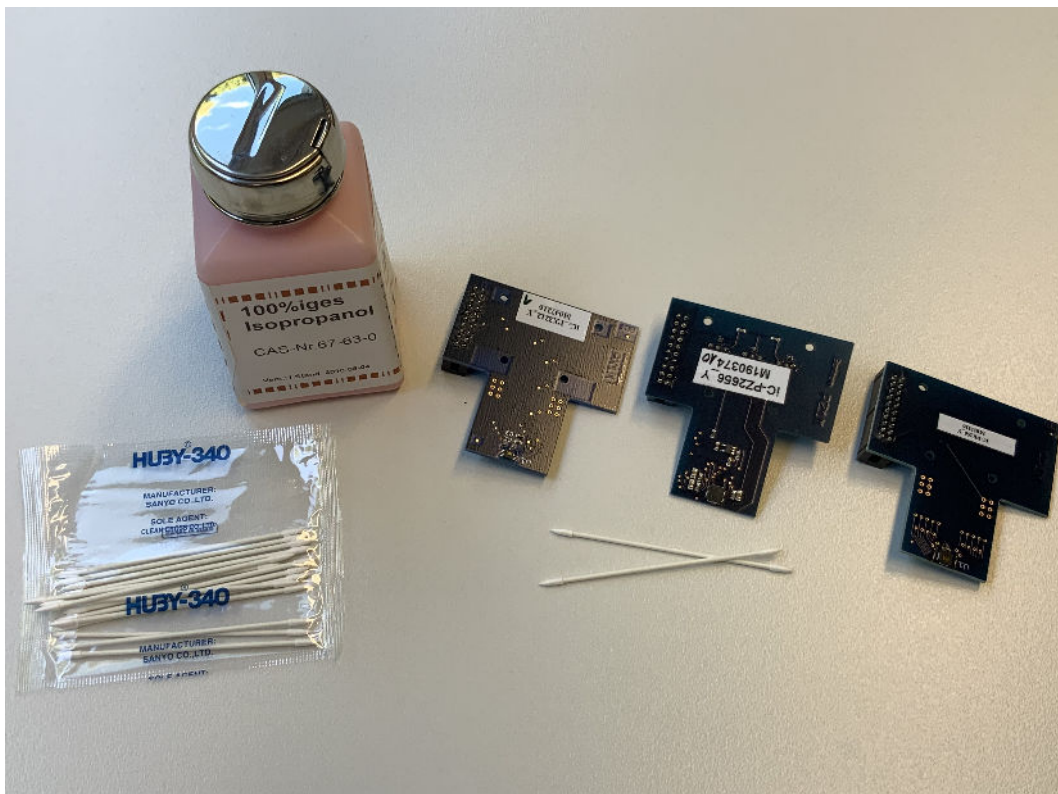


图 1: 从左到右依次为: 清洁棉签, 异丙醇, iC-PX,iC-PZ,iC-PR.

清洁安全须知

为避免在清洁过程中损坏传感器，只能机械接触传感器的窗口表面。在任何情况下都不得触碰嵌入式 LED，否则可能导致芯片发生故障。允许和禁止接触的区域分别用绿色和红色标记。

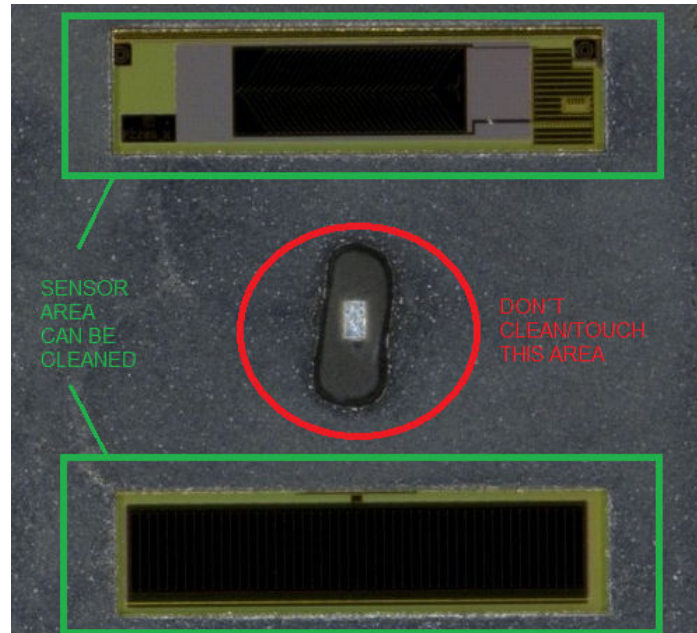


图 2: iC-PZ 传感器的允许和禁止接触区域

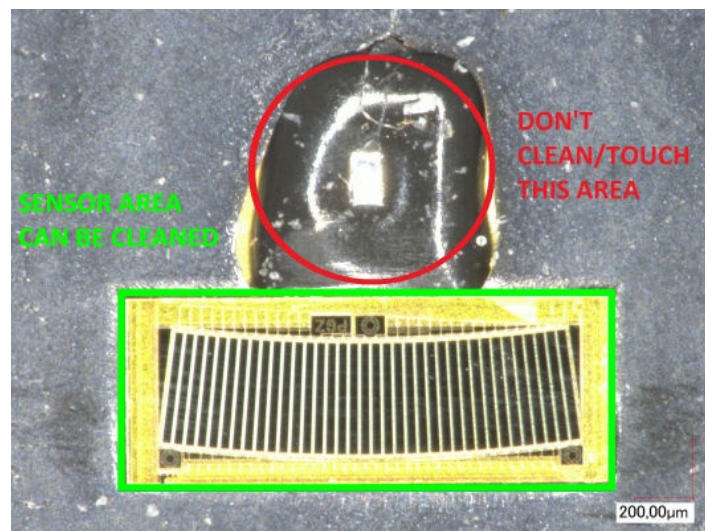


图 3: iC-PG 传感器的允许和禁止接触区域

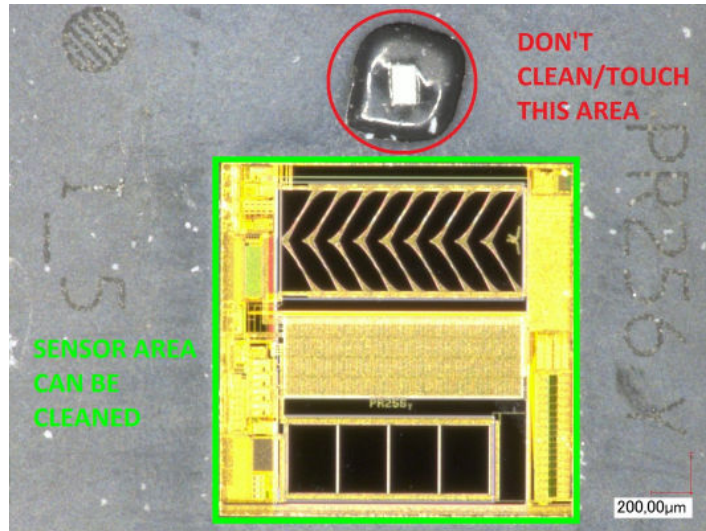


图 4: iC-PR 传感器的允许和禁止接触区域

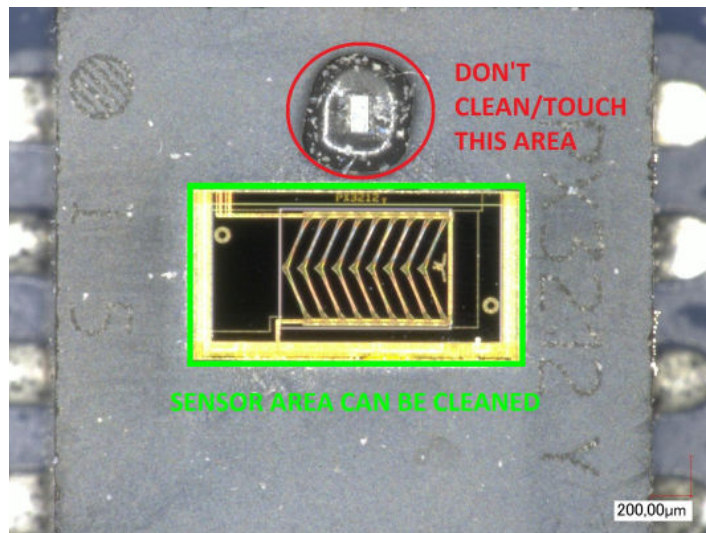


图 5: iC-PX 传感器的允许和禁止接触区域

清洁步骤

1. 在洁净室或类似无尘条件下进行所有清洁操作。敏感的 LED 区域（用红色圆圈标明的）非常脆弱，因此，避免用手指或任何硬质材料触碰该区域非常重要。
2. 在 5 至 20 厘米的操作距离处小心地喷射干燥压缩空气，以清除传感器表面的灰尘颗粒和污垢。使用电离空气可能有助于去除因静电而粘附在表面上的污垢。只能将压力保持在中等强度。
3. 用沾有异丙醇的棉签沿着玻璃表面的长度擦拭，动作平稳。棉签应该是湿的，但不能滴水。请勿用力按压玻璃表面或在某一处反复擦拭。如果出现条纹，则可能是棉签上的溶液太多。等待传感器玻璃上的溶液干燥，再重复此步骤。
4. 清洁过程结束后，在进行下一个步骤或打开传感器电源之前，请确保清洁材料都已蒸发。
5. 检查表面是否残留污垢或灰尘。如果仍有灰尘斑点，请使用新棉签重复此过程。

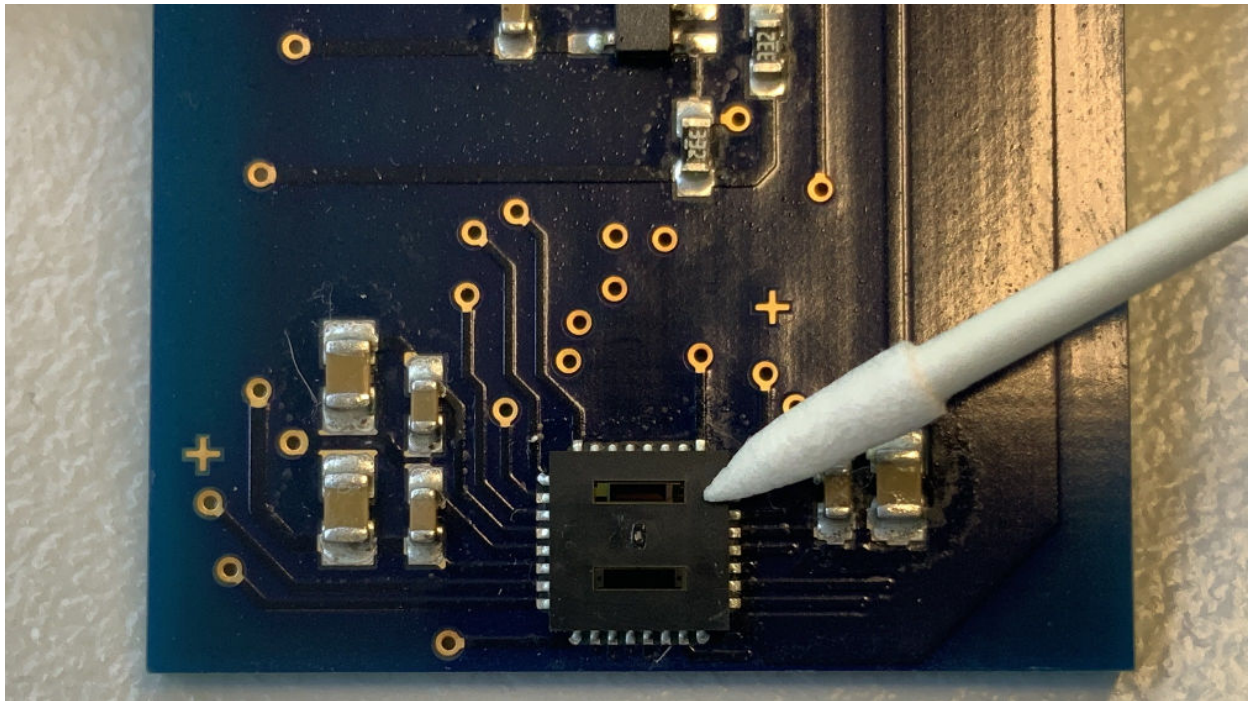


图 6: 清洁 iC-PZ 传感器示例

修订历史

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