



August 12th, 2025

Dear Valued Customer,

We are pleased to share a recent evaluation demonstrating the water immunity performance of our 10.1" TFT display with a capacitive touch panel, powered by the MXT1066TD touch controller.

Demonstration Overview

To simulate realistic shower environments, we subjected the touchscreen to a 2.5 GPM hand shower stream, replicating incidental water contact through sweeping motion across the panel surface. This evaluation focused on two critical performance metrics:



- **No false activations** – Preventing unintended touch events is essential in wet applications to avoid erratic behavior.
- **Consistent user input recognition** – The touchscreen must accurately detect deliberate touches, even while exposed to continuous water flow.

Engineering Significance

Achieving high-precision touch functionality under direct water exposure requires careful system design. This evaluation reflects over 15 years of expertise in developing water-tolerant user interfaces. Testing conditions included a concentrated water column positioned as close as 6 inches from the display to reflect realistic and challenging use cases in smart bathroom environments.

Operational Reliability

Ensuring accurate touch input without false activations is not merely a benchmark—it is a functional requirement. This level of performance is critical for enabling safe, intuitive, and uninterrupted user control in wet conditions.

Please contact us (info@orientdisplay.com) for further information and questions.

Orient Display Team