

iBT165X

WATER RESISTIVE PCAP PLATFORM



Projected capacitive touch screens have become very popular, but the phenomenon of false reports caused by water on or splashing water on the surface is still a common problem. This is indeed a technical bottleneck of projected capacitive technology. Imagination Broadway's long-term research, experiment and analysis on projected capacitive touch area, with selected design rules, can fully eliminate interference under water splashing situations, allowing the touch operation to operate in safe and fault-free conditions. The iBT-165x platform is designed for environments such as bathroom, various water-friendly areas, outdoor activities, smart homes, smart buildings, factory workshops, etc., any place where the touch operation on the screen might be messed up because the panel was covered by splashed water or water mist. iBT-165x always ensures safe operation, making no mistake.



Intelligent
Network



Smart
Building



Smart
Home



Smart
Factory



Client Interface
to Human-
Machine Unit

Specifications and features

- Equipotential self-capacitance sensing capacitor design
- Operation success under splashing water
- Outdoor use not affected by rain
- Using projected capacitive touch control technology
- Optional connection with other host via CAN Bus
- Panel pattern can be customized
- Panel layout can be customized
- Superior in waterproof
- Simple and solid device mechanism
- Display is adjustable and customizable
- USB/CAN/UART/I2C can connect to other hosts
- Can be connected to OLED or TFT LCD display
- Use USB 5V power supply
- Externally connect to various sensors such as temperature sensor, etc

iBT-1651 (Examples)

Display style
(customizable, programmable)



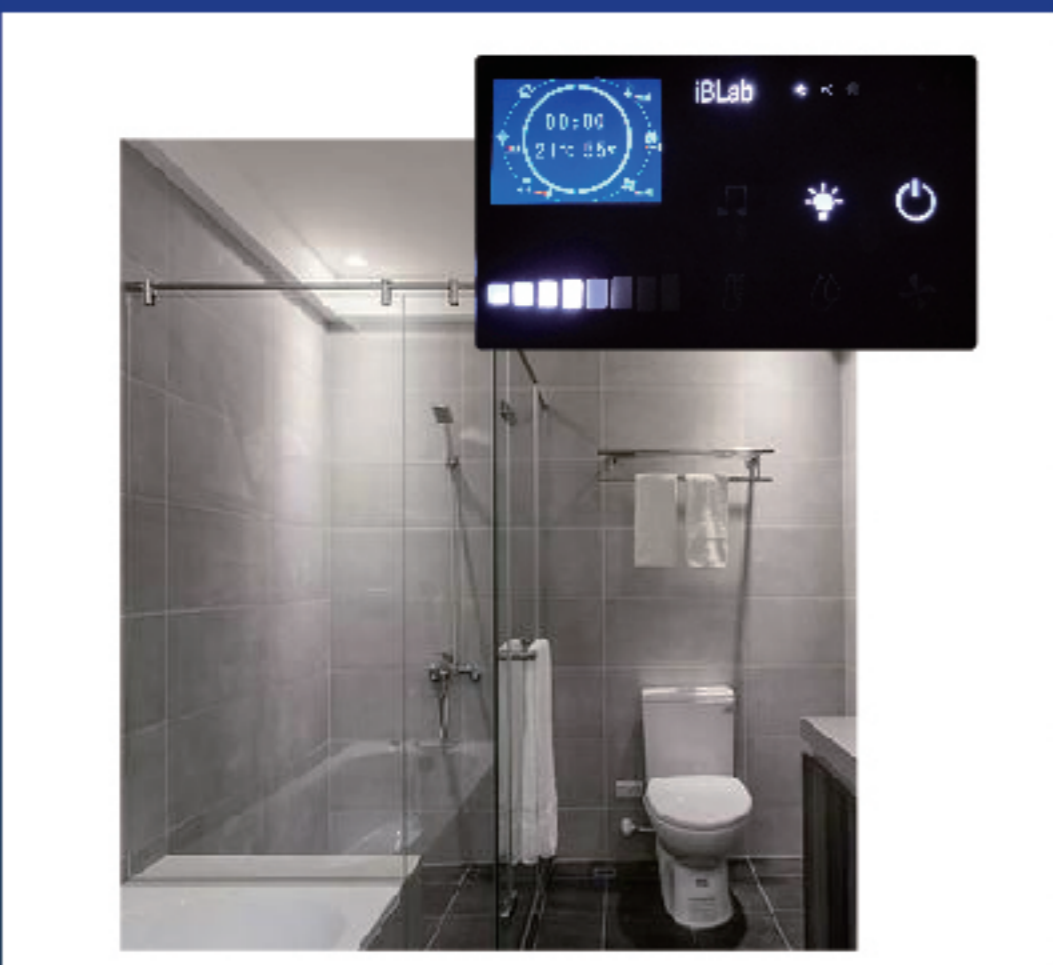
Factory environment

In case of water splash on the surface
Touch control still operates successfully
No false action : Not affected by water stains



Shower room

Water flow and temperature control panel
Directly sprayed by shower head
Touch control still operates successfully



Motorcycle dash board

Under (outdoor) raining environment
Touch operations are not affected by rain
on the screen surface

