

# AMT Virtual Keys for PCAP Touch Panels

Increase design flexibility and optical performance

For over 20 years, AMT has provided the industrial, medical, and commercial markets with the most functional touch panels available. One feature that has continued to be popular is the inclusion of dedicated key controls outside the LCD display viewing area. AMT offers a virtual key feature to create touch button keys on the non-transparent periphery of the touch panel cover glass. Users benefit by being able to set normal and frequent touch buttons for standard and frequently used functions in the area surrounding the LCD display.

## Features

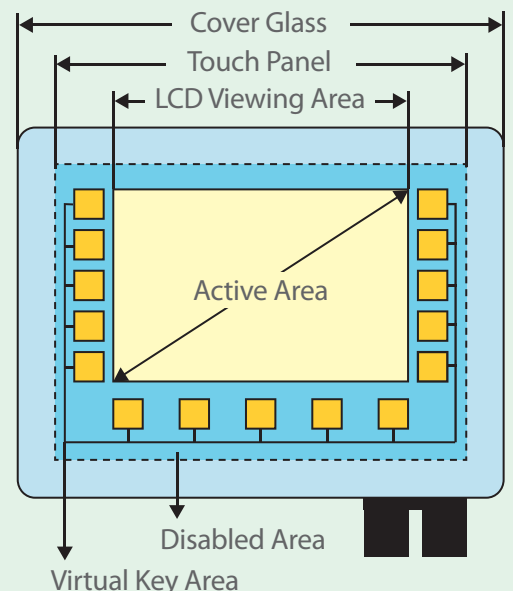
- Same functionality as hard button keys designed into the front bezel
- Integral to touch systems since their inception
- Quick shortcut to execute a particular action
- Virtual key feature can be applied to touch panels of any size
- Default setting is 15 virtual keys on an AMT PCAP touch solution with more virtual keys available in custom firmware

## AMT's Comprehensive Solution

AMT virtual keys for medical and industrial applications address 3 main items, the PCAP touch panel, PCAP touch controller, and software applications:

### Touch Panel

- Touch panel active area equal to LCD display area
  - Non-transparent buttons covered with printed icons on décor glass
- Example : 15 virtual keys are added to a 10.1" LCD panel, cover glass size can be 12.1" with 15 keys located around the viewing area periphery.

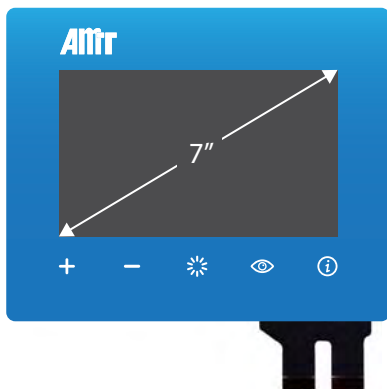


## PCAP Touch Controller

- All PenMount hardware control board and COF designs remain standard
- Standard firmware supports the virtual key feature
- PenMount Control board selection depends on the total touch panel size

Example : the size of the LCD active area is 7" and, after adding virtual keys, the touch area grows to 8.4", then a control board suitable for a 8.4" touch panel is required.

Front View



Rear View



PenMount PM1310



## Software

- Virtual key parameter setting added to the firmware, it is a special firmware, need to apply the feature when start the project
- Customers can freely designate zones and buttons in touch panel active area
- When using virtual keys, features such as noise immunity, EMC, water handling, gloved operation, etc. are retained in one firmware.
- Above features can be utilized simultaneously with no compromise in PenMount performance.
- API and design guide available to customers for developing their own virtual keys, software to configure virtual keys is also available

## Applications

- Industrial equipment
- Medical devices
- Automation facilities
- POS, KIOSK
- Public facilities
- Business systems
- Others

