

True-flat Resistive Touch Screen

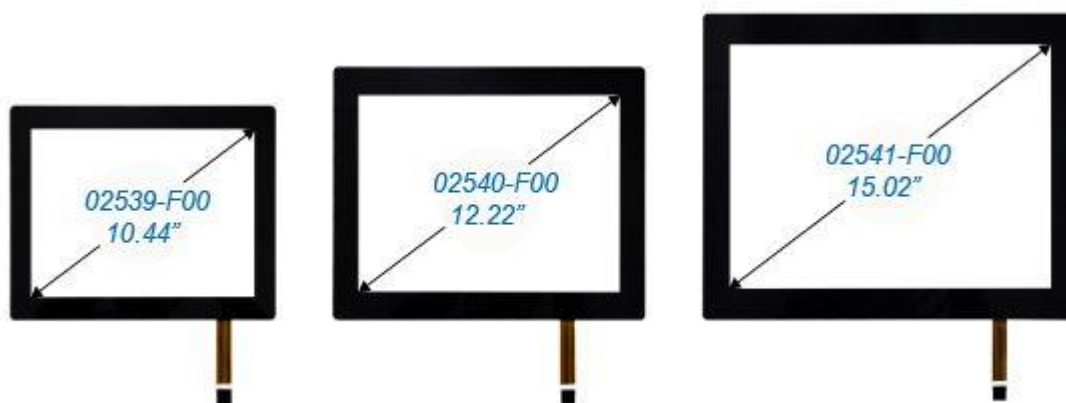
Projected capacitive (PCAP) touch panels are predominantly designed with a true-flat surface and rounded corners, offering an aesthetically pleasing appearance that is highly favored by customers. The working principle of PCAP touch panels relies on conductive touch detection, which makes them susceptible to interference from water or noise. For applications that require zero tolerance for false touches and only single-point touch functionality, resistive touch panels are also a viable technical choice. In recent years, some industrial and medical applications have sought to adopt true-flat resistive touch panels as an alternative to PCAP touch panels. AMT's true-flat resistive touch panel (Framed Touch) combines high reliability with an elegant true-flat design, providing another excellent option!

Flexible Product Design

Framed Touch is a five-wire resistive touch panel that employs a standard film-glass (Film-Glass) structure. By printing a border on the upper ITO film, we achieve a true-flat appearance.

Key product features include:

- Pressure-sensitive touch detection, unaffected by noise interference
- Available in sizes up to 19 inches
- Surface treatment options: clear or anti-glare
- Frame color options: black or white, with customizable logo printing
- Customizable edge and corner shaping based on customer requirements



Size Compatibility & Flexible Integration

AMT currently offers three standard Framed Touch models in 10.44", 12.22", and 15.02" sizes, all with a clear surface finish. These three Framed Touch models are fully compatible with AMT's standard PCAP touch panels, enabling seamless integration without requiring mechanical design changes. The corresponding model numbers for AMT's Framed Touch, PCAP touch panels, and PenMount touch controllers are as follows:

Size	Framed Touch P/N	PenMount Resistive Control Board P/N	PCAP Touch P/N	PenMount PCAP Control Board P/N
10.44"	02539-F00	PM6300/ PM6500/ PM6202	P3008-AGA	PM1310
12.22"	02540-F00		P3026-AG0	PM1415
15.02"	02541-F00		P3029-AG0	PM1415

PenMount Touch Controller Support

Whether for resistive or projected capacitive touch panels, PenMount touch controllers provide comprehensive support. The firmware for both PenMount resistive and PCAP touch controllers is developed in-house, featuring multi-point positioning and advanced noise-resistant algorithms. These controllers support multiple operating systems and come with various drivers. Combined with PenMount's proprietary software tools, customers receive maximum assistance throughout the product development and design process, ensuring high stability and suitability for industrial environments.

Complete Product & Service Solutions

Framed Touch true-flat resistive touch panels allow customers to enhance the front bezel design of their products, achieving a premium appearance comparable to PCAP touch panels. At the same time, they retain the superior noise immunity of resistive touch technology, ensuring normal operation even when water is present on the touch surface. If customers have additional specifications, such as IP6x waterproofing, anti-static, or UV-resistant designs, AMT can assist in customizing Framed Touch accordingly.

Alcom has over 25 years of expertise in display and touch technology providing professional technical support and services to help customers successfully launch their projects.

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