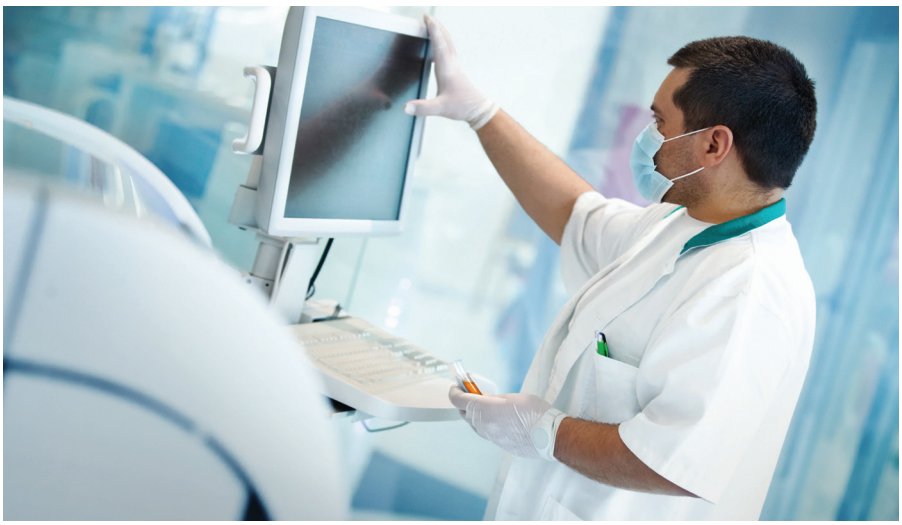
Why resistive touch panels are the most adaptive

Japanese IT equipment and services company **Fujitsu** has over 50 years of experience delivering technology solutions to customers around the globe. As our personal and professional lives have become more digitised, touch panels have become an essential piece of equipment. Fujitsu offers a range of touch panels with multiple key features for medical equipment.

These days, electromagnetic radiation is just as common as the equipment radiating it.

Electromagnetic interference (EMI) can be a real headache; any disruption to medical equipment is an issue, especially for life-critical devices. This interference is a dealbreaker when it comes to certain equipment, which is why the International Electrotechnical Commission introduced primary electromagnetic compatibility and EMI standards for medical electrical equipment and systems. Engineers designing medical equipment need to ensure that all parts comply with these standards and only emit the minimum amount of EMI.



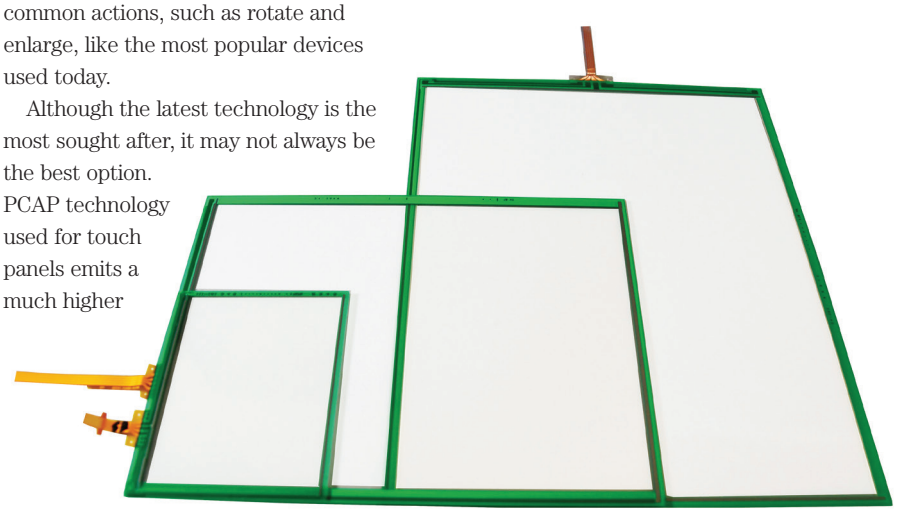
Light-touch-resistive panels offer a number of benefits for the medical industry.

Making the right choice

While some decision makers may want whatever looks like the most advanced technology on paper, a feature that makes one product great is not necessarily appropriate for all solutions. For instance, when searching for a touch panel for medical equipment, the latest projected capacitive (PCAP) technology might seem the best fit as it can perform the most common actions, such as rotate and enlarge, like the most popular devices used today.

Although the latest technology is the most sought after, it may not always be the best option. PCAP technology used for touch panels emits a much higher level of electromagnetic radiation and, therefore, interference.

Light-touch-resistive panels offer low-EMI emissions, as well as several other benefits that the medical industry should consider. For example, medical staff require the flexibility to use gloves at any given moment, or may have wet hands and still need to use the touch panel.



Fujitsu's long-life, light-touch-resistive panels are designed to process ten million inputs.

In an emergency, doctors need to operate a touch panel without having to dry their hands or remove their gloves. Resistive touch panels offer medical professionals the ability to carry on with their life-saving work with no extra steps involved.

In contrast, capacitive panels have to be adjusted for use with gloves, and this can make them extremely sensitive – so much so that they can even detect a finger before it has touched the screen, meaning that false inputs are much more likely. This would not happen with light-touch-resistive panels, and there is the added benefit of no tuning required.

Fujitsu recognises the importance of being able to operate medical equipment with gloves, especially in light of the Covid-19 pandemic, and has developed a series of long-life, light-touch-resistive panels.

These panels are designed to process ten million inputs, with dual-touch options and a great light-touch feeling, making them the perfect alternative to PCAP technology in the medical field. ●

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