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Taiwan Photonics News

High Speed Demands Stimulating 5G Market

For users who love cloud games, they have the highest demand for "speed" and are willing to use higher tariffs for faster transmission speeds. Taking Chunghwa Telecom as an example, it provides high transmission speeds for users who pay attention to network speed. As soon as 5G is launched, the user groups are clearly separated, and it is also expected to attract special groups to move to the 5G high tariff plan.

In view of this, major global manufacturers seem to be gearing up to enter the 5G mobile communications market. In terms of the current smartphone market, which is the largest part of 5G applications, the market research agency originally estimated that there will be a 200 million market for global 5G smartphone shipments in 2020. However, due to the impact of the new crown epidemic, it will be revised down to 170 million in early 2020. In terms of regional markets, mainland China accounted for 49% of the market, North America accounted for 22%, Asia excluding mainland China accounted for 17%, and Western Europe accounted for 11%.

Taiwan Photonics News

Epidemic Pushing Emerging Display Technologies to Seize Niche Markets

The global pandemic of the new coronavirus has changed people's perception of environmental health. Although the importance of hand washing, disinfection and wearing masks is emphasized, there are still many people who have not changed their original habits. They will directly touch the facilities and objects around their lives without disinfection. Unconsciously, they will be infected by hand touching the surface of the new coronavirus. .

As for the sensor on the touch panel, the multi-touch capacitive sensor type used in smart phones is a self-capacitance method that simply detects the touch position. The floating operation is to operate the lower touch screen at a distance of a few centimeters from the top of the screen, using hybrid capacitive, infrared (IR) sensors, etc. methods. In order to be able to operate in the air, basically in addition to increasing

the sensitivity of the sensor and adopting anti-noise methods to prevent malfunction.



Company Note

New CO2 snow-jet booths in cleanroom compatible design

Whether in medical engineering, the semiconductor industry, in laboratory and development environments or in other areas - parts produced in small quantities often have to meet the highest cleanliness requirements. For such cases, acp systems has developed two new CO2 snow-jet booths suitable for cleanroom use. These enable high-purity workpieces to be cleaned in a manual or semi-automated process with the quattroClean technology.

Components for high-purity applications, for example in medical engineering, laser technology, semiconductor supply industry, precision optics and metrology could hardly be more varied. And yet they share common features such as low production volumes, high workpiece diversity and, above all, extremely high demands on surface cleanliness. This involves the removal of particulate and filmic contamination and, depending on the industry, possibly biological and ionic contaminants as well as organic and inorganic residues. Research and development departments are also confronted with these requirements. Conventional parts cleaning solutions are usually designed for much larger quantities and in some cases - such as with wet-chemical cleaning - may reach their limits as far as process capability is concerned.

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