

iPad Pro 2020 has a second 'abdominal' operation, revealing the differences between LiDAR and Face ID

The 'internal' of the latest iPad Pro model is quite similar to the previous generation, but the sensitivity of the LiDAR sensor is not the same as the TrueDepth camera cluster.

"Abdominal" a product up to two times in just a few days, and all we see is a brief video, filmed in the context of self-isolation, not what experts at iFixit usually does. However, everything still goes according to the normal repair process, with a few minor differences.

Separating the iPad Pro's screen from the rest of the device requires a guitar plectrum and dryer instead of a warm pad to make the glue stick out. Like the 2018 iPad Pro, experts have to twist the back slightly to remove the screwed cables and shields before detaching it completely.

iFixit "abdominal surgery" iPad Pro 2020

The new camera module is separated by a few screws, the inside contains a 10MP ultra wide-angle module along with a 12MP wide-angle camera, and the LiDAR sensor that we had previously learned about the abdominal operation. From the two modules are capped and stacked. As predicted, these modules contain a VCSEL signal transmitter and a signal receiving sensor, in which the transmitter will shoot an array of infrared dots that the sensor can recognize.

Using an infrared camera, iFixit experts discovered that the LiDAR system shoots a series of infrared dots on a regular model, significantly less than the infrared dots of the TrueDepth camera. Because LiDAR is not designed for Face ID-style applications, it seems to be for simple depth mapping tasks over a broader range than for accurate measurement of mold characteristics. face.



Infrared dots from LiDAR (left) and Face ID (right)

The front cameras are concentrated on a single combination, with the same hardware as the previous module. The USB-C port is still modular in the bottom of the device, instead of being soldered onto the circuit board, making repairing easier.

The logic board - like every other iPad model - is hard-sealed inside, with a cord running under it, and protected by two large battery cells. This board has A12Z Bionic chip with 6GB of RAM, an increase of 2GB compared to previous generations.

The battery is fixed with stretchable glue, some areas are glued with regular glue so it is still difficult to replace. The two cell batteries have a total capacity of 36.59 watts-hours, just like the previous model.

iFixit's conclusion after completing the second "abdominal surgery" is that the iPad Pro 2020 has a " *rather annoying repair process* ", though it only brings small upgrades to the user. The use of glue and the need for a new device to open the device forced iFixit to give Apple's latest tablet a 3/10 repair score.

Reference: AppleInsider

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