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NB BUILT IN PROJECTOR AND SCANNER

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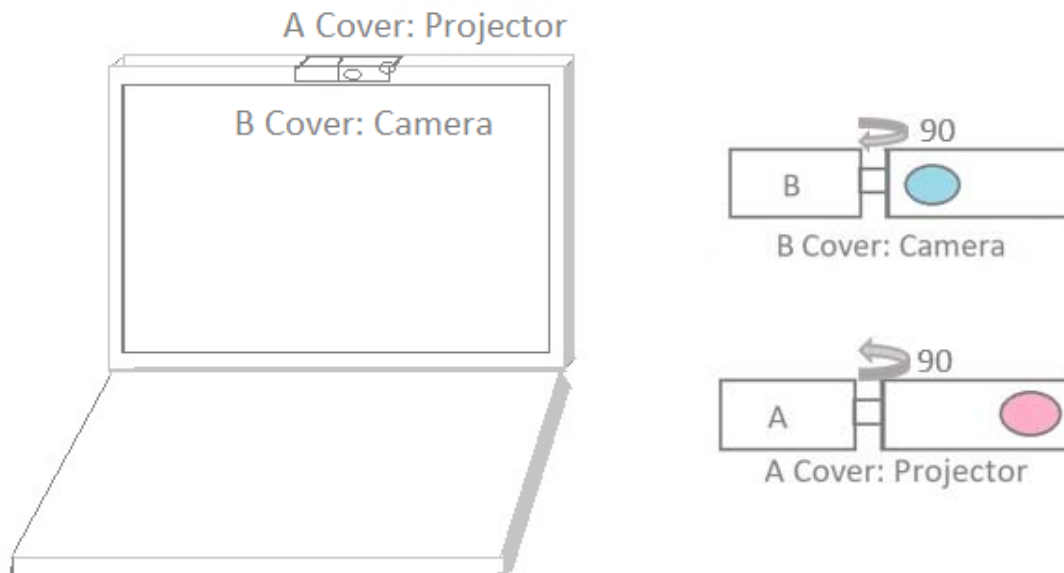
NB built in Projector and Scanner

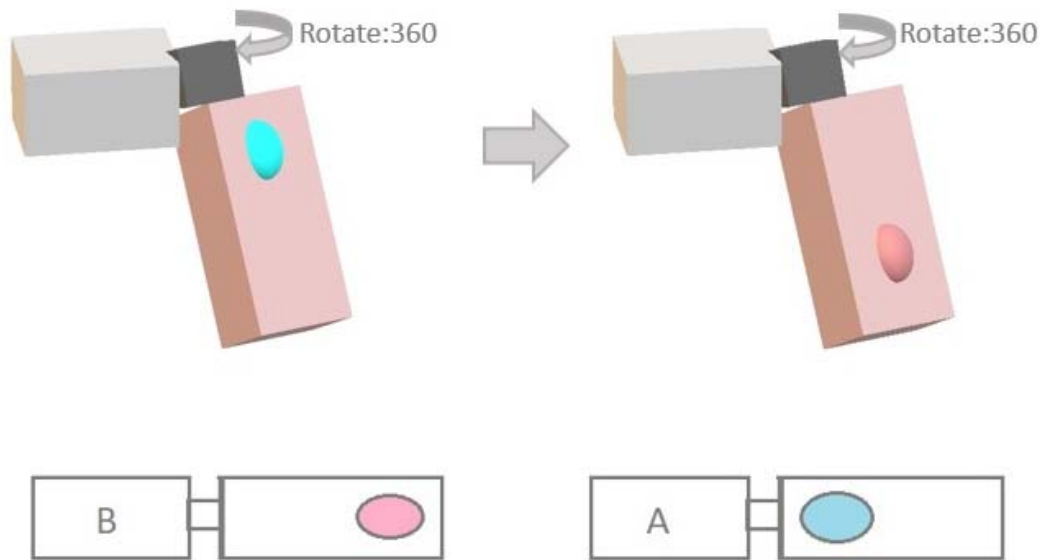
Design Purpose:

The design that contains a projector, scanner, and 360 camera to capture images, infrared, depth and more. All of these elements work together. It would be very convenient for people.

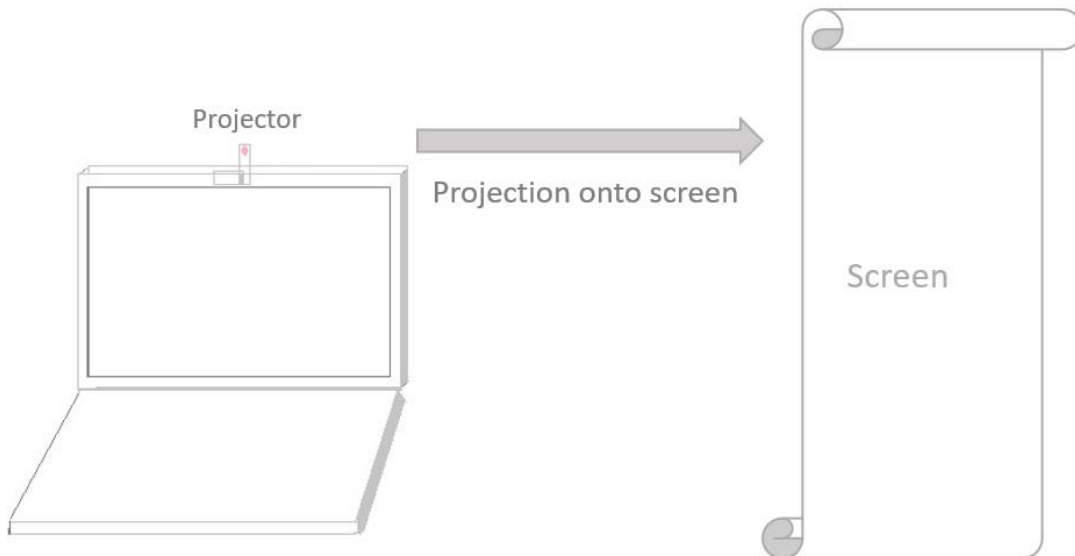
Design Concept:

The camera module is different from the traditional camera. It consists of two parts. One end is fixed on the panel, the other end has a Projector on side A and a Camera on side B. It can rotate 90 degrees to A cover and B cover respectively, and it can rotate 360 degrees. Using rotation function can even turn over the A and B side of Camera module.



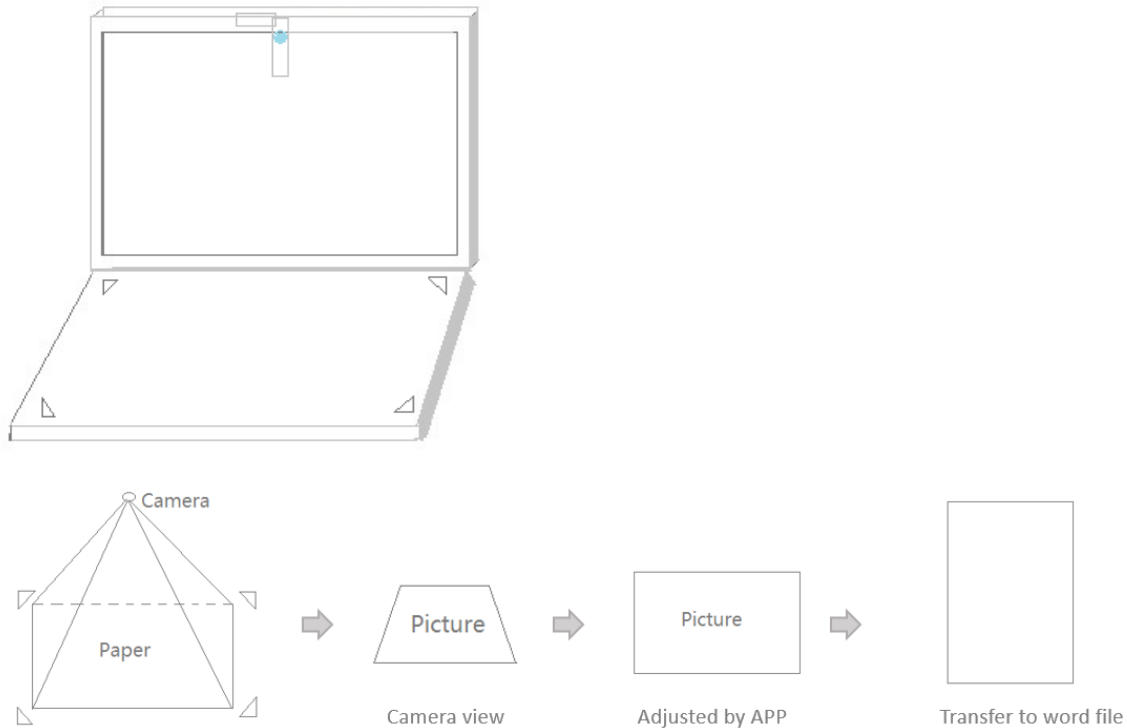


The design of rotation function can achieve better projection function and scan



function. Using the 90-degree rotation function of the module, the Projector can rotate to A cover, and then the Projector can be adjusted to the appropriate angle by using the 360-degree rotation function. It will not affect user to do other things and protect user's privacy.

There are four fixed points on the C part. The original is placed in the four points when scanning. Open scan APP, the APP can automatically adjust the images acquired by Camera to the correct shape. Rotate camera to the direction of B cover by using the 90 degrees of rotation function. Then, according to the image displayed by APP, adjust the camera to appropriate position by using the 360 degrees of rotation function. Then, scanning and get picture.

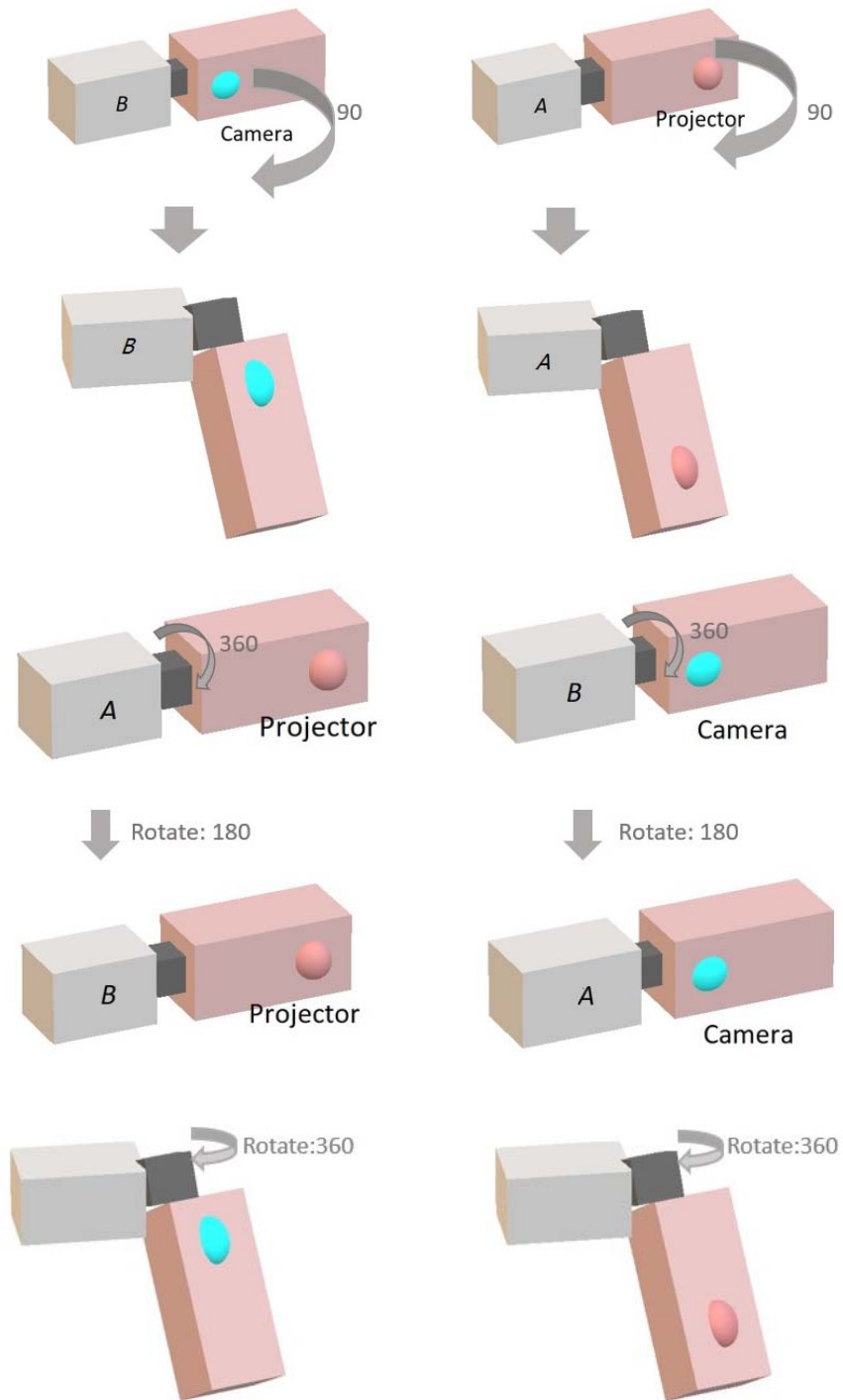


Design Detail:

The design mainly relies on the 360-degree rotation function to achieve projection function and scanning function.

Details:

1. The two part of the Camera module is connected by a revolving material, one end is fixed, and the other end is rotatable. It can rotate 90 degrees before and after, and can rotate 360 degrees automatically.



2. There are four fixed points on the C cover. When APP scans, it adjusts the pictures per these four points and restores the pictures in the four points to their original state, that is, the right-angle shape.



Disclosed by Benmiao Cao, Lin-Yan Xia and He Ma, HP Inc.