

5 A MINIATURE COMPOSITE ASSEMBLY THAT INCORPORATES
MULTIPLE DEVICES THAT USE DIFFERENT WAVELENGTHS OF LIGHT
AND A METHOD FOR MAKING THE COMPOSITE ASSEMBLY

ABSTRACT OF THE DISCLOSURE

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A remote control (RC) receiver device and an ambient light photosensor (ALPS) device are mounted on a single mounting device (e.g., printed circuit board) such that they are part of a single composite assembly. This reduces the amount of space that is needed in electronic devices that incorporate both RC receiver devices and ALPS devices. In addition, by implementing both devices in a single composite assembly, costs associated with manufacturing, assembly and shipping can be reduced. Because the RC receiver device and the ALPS device operate on light of different wavelengths, the composite assembly includes filtering mechanisms that prevent undesired wavelengths of light from impinging on the photodiode of the RC receiver device and on the photosensor of the ALPS device.

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Figure 1