

ORTHOPHOTO

One of the products from LiDAR technology is orthophoto. High resolution aerial photos can be collected simultaneously using a digital camera, usually mounted on aircraft, drone or vessel. Raw aerial imagery must be corrected through georectification process, whereby it is adjusted or transformed to a common or known coordinate systems (e.g. WGS1984). A combination of more than one imagery would be called mosaicking process. It involves merging multiple images together to form a big one image that cover vast area of interests.

Hence, orthophoto is useful for creating accurate and current map of an area. The orthophoto also provides an accurate visual representation of natural and artificial features on the earth's surface, which can be used to measure true distances as it has been geometrically corrected.



A 1000 x 1000 m of area in Kuala Belait district, Lumut. The spatial resolution of the image is 10cm. Image courtesy of Soartech Systems.



Zoomed in of area within the red box boundary



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