

# **Yunnan Mountain Area Aerial Triangulation Precision Research Based on SWDC**

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China has developed the SWDC digital aerial apparatus which owns independent intellectual property rights and which is widely used to collect geographic information data for large and medium scale map. This paper analyzes the influence on measurement accuracy caused by the SWDC aerial apparatus. Then, with classic single air strips, weakest point accuracy estimate formula as the basis, it uses Yunnan typical mountainous image obtained by the SWDC adopting different photo-control-point layout schemes to conduct adding aerial triangulation points test in 1:10 000 scale map. The experiment results manifest SWDC aerial apparatus has preferable availability and reliability in Yunnan's mountains district.

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