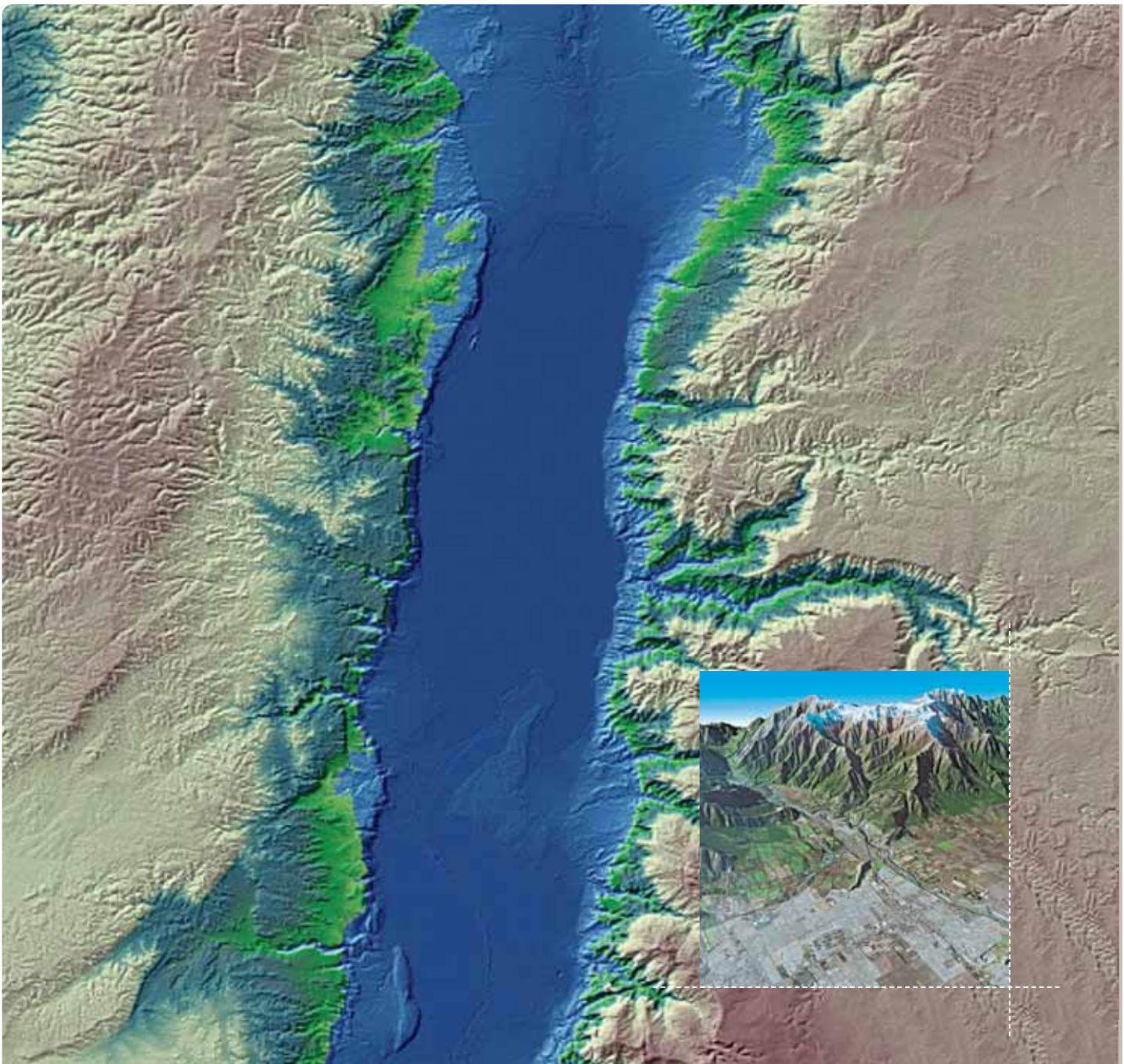


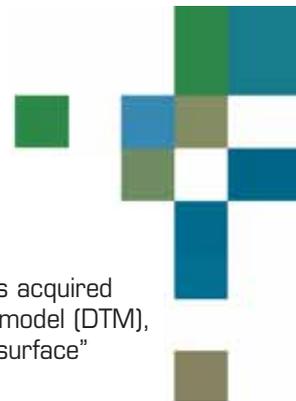
SPOT DEM

Bring perspective to your projects



SPOT DEM, Dead sea - SPOTView Ortho draped over a SPOT DEM, Andes cordillera





What is a SPOT DEM?

A SPOT DEM is a digital elevation model produced by automatic correlation of stereopairs acquired by the High Resolution Stereoscopia (HRS) instrument on SPOT 5. Unlike a digital terrain model (DTM), which describes the distribution of terrain or "bare earth" heights, a DEM includes "first surface" elevations with vegetation and man-made structures.

A SPOT DEM has a post spacing of one arc second or 20 metres.

Global coverage

With more than 100 million km² already covered across 2/3 of the globe's land surfaces, SPOT DEM is the ideal solution to ensure rigorous registration of all your data.

Unmatched performance

■ Absolute horizontal accuracy

The absolute horizontal accuracy is the positional error in the DEM with respect to the ground truth. For a SPOT DEM, this depends on the dimensions of the area of interest or on the availability of Reference3D (French Defence database) data for this area.

■ Absolute vertical accuracy

The absolute vertical accuracy is the elevation error in the DEM with respect to the ground truth. It depends mainly on the slope of the terrain.

No need for GCPs			
Absolute accuracy	Area covered by Reference3D	Area of 100 000 to 150 000 km ²	Area < 7 200 km ²
Horizontal	≤ 15 m	≤ 15 m	≤ 30 m
Vertical (slope < 20 %)	≤ 10 m	≤ 10 m	≤ 20 m

Values guaranteed with 90% confidence

The cornerstone of your GIS

SPOT DEMs significantly improve registration of data layers in digital mapping. They also are therefore widely used in geographic information systems (GIS) for land management and **terrain modelling**. Applications include: impact studies, rail and road infrastructure studies, mobile telecommunications engineering, structural geology surveys, oil exploration, erosion studies, mapping, flight simulation...

A SPOTView Ortho can be draped over a SPOT DEM for a more realistic 3D view of terrain, which helps multidisciplinary teams to work more closely together.

A made-to-measure response

- **Easy to use:** cartographic or geographic projection
- **Priced per km²** and framed to match your exact region of interest
- **Quick turnaround:** product ready in 2 weeks for areas < 20 000 km²

They chose SPOT DEM

BRGM, CEA, CRTS, EDF, European Commission (JRC), NPA, Sagem, Shell, South Korean Defence Ministry...

Spot Image quality of service

Spot Image, the commercial operator of the SPOT satellites since 1986, is extending its portfolio of 3D products and leveraging its experience to offer you more choice and make your projects a success. Our application domain experts and sales team are on hand to help you choose the right products and advise you on project implementation.

For more information:
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France, Australia, Brazil, China, Japan, Mexico, Singapore,
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