

# The technology behind Google Street View

To compile panoramic images of city streets for its maps site Google uses a fleet of vehicles equipped with cameras and antennas, which scan local WiFi networks. WiFi data is used to provide location-based services for phones that do not have GPS

Google  
Maps



**ANTENNA:** Mobile phone 3G/GSM and WiFi network data collection

**COMPUTER:** Tracks area covered and indicates remaining hard disk space

**GPS RECEIVER**  
Pairs image and data position with map

**CAMERA RIG**  
5-megapixel cameras

**Top:** Fish eye camera provides 290-degree vertical view

**Sides:** Eight cameras provide 360-degree horizontal view

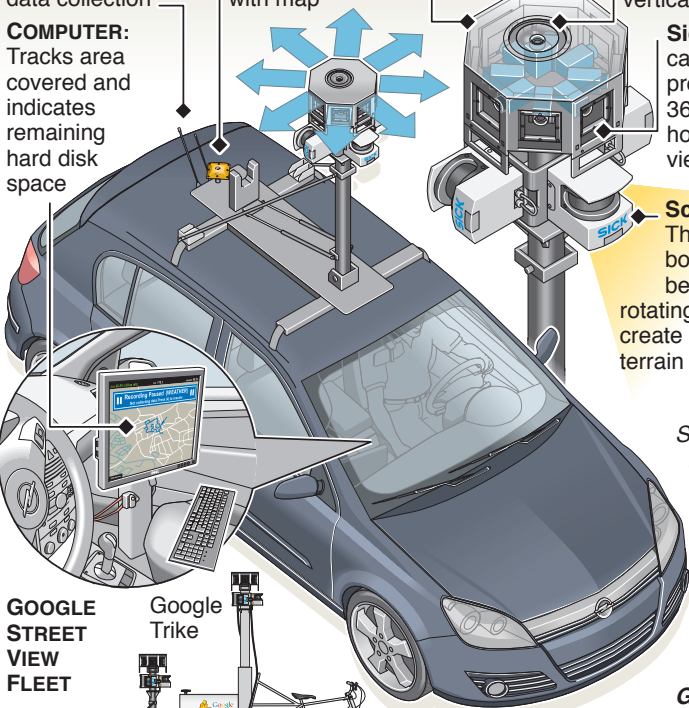
**Scanners:** Three units bounce laser beams off rotating mirrors to create 3D map of terrain up to 30m

**SECURITY:** Special face recognition software to blur people's faces and number-plates to protect privacy

**Google has been attacked for collecting private data from unprotected WiFi networks**

Source: Google

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**GOOGLE STREET VIEW FLEET**

Google Trike

Car

Snowmobile

