

Universal Tracking Channels



Universal Tracking Channel technology is an intelligent mechanism and unique intellectual property from Topcon; designed to maximize the receiver's satellite tracking capability of the Global Navigation Satellite System (GNSS).

The multi-constellations transmit various signals and carrier frequencies. Each universal digital channel, within the Topcon GNSS receiver, can be adjusted and assigned to receive these different signals.

Using this patented technology (US Patent # 7,764,226 Universal digital channel for receiving signals of global navigation satellite systems), Topcon receivers, such as the NET-G5 and HiPer VR, are capable of tracking all visible (observable)* GNSS satellites throughout the day over North and South America.

The benefits to the user include maintaining satellite geometry and producing best possible solutions. This is especially helpful in areas with obstructed views of open sky.

*Maximum satellite visibility under optimal circumstances. Conditions may produce fewer observable satellites in specific situations/locations.