

# Leica Geosystems Total Station Comparison Chart



	Leica Viva TS16	Leica Nova TS60	Leica Nova MS60
	Automated Total Stations		MultiStation
Angular accuracy	1", 2", 3", 5"	0.5"	1"
Prism range (GPR1, GPH1P)	1,5 m to 3'500 m > 10'000 m (Long Range mode)	1,5 m to 3'500 m > 10'000 m (Long Range mode)	> 10'000 m
Distance measurement accuracy on prism	1,0 mm + 1,5 ppm	0,6 mm + 1 ppm	1,0 mm + 1,5 ppm
PinPoint EDM: Reflectorless range <sup>1</sup>	R500: > 500 m R1000: > 1'000 m	R1000: > 1'000 m	R2000: > 2'000 m
Distance measurement accuracy reflectorless	0 m - 500 m: 2 mm + 2 ppm > 500 m: 4 mm + 2 ppm	0 m - 500 m: 2 mm + 2 ppm > 500 m: 4 mm + 2 ppm	0 m - 500 m: 2 mm + 2 ppm > 500 m: 4 mm + 2 ppm
Display	5" WVGA 37 keys colour touchscreen	5" WVGA 37 keys colour touchscreen	5" WVGA 37 keys colour touchscreen
Key Illumination	✓	✓	✓
Face II Display	•	✓	✓
Electronic Guide Light (EGL)	✓	✓	✓
RS232 / SD / USB	✓	✓	✓
BT / WLAN	✓	✓	✓
Mobile Data (GSM / UMTS / LTE)	✗	✗	✗
Long Range BT Communication	✓ (with radio handle)	✓ (with radio handle)	✓ (with radio handle)
AutoHeight	✗	✗	✗
Overview camera	•	✓	✓
Telescope camera	✗	✓	✓
SmartStation (GNSS) capability	•	•	•
Motorisation	DC drives	Piezo drives	Piezo drives
Automatic Target Aiming	• ATRplus	✓ ATRplus	✓ ATRplus
Prism fast search	• PowerSearch	✓ PowerSearch	✓ PowerSearch
Prism Lock	✓ (except TS16M)	✓	✓
Scanning	✗	✗	✓
Autofocus	✗	✓	✓
Remote Control	Leica CS20 Leica CS35	Leica CS20 Leica CS35	Leica CS20 Leica CS35
Operating time	5 - 8 h (GEB222)	7 - 9 h (GEB242)	7 - 9 h (GEB242)
Weight <sup>2</sup>	5.1 kg	7.3 kg	7.3 kg
Field Software	Captivate	Captivate	Captivate

**Legend:** 1. Kodak gray 90% reflective  
 2. Standard instrument weight without battery

✓ = Included • = Optional ✗ = Not available