

	Fenix 6S	Fenix 6	Fenix 6X
General			
Lens Material	Corning® Gorilla® Glass 3	Corning® Gorilla® Glass 3	Corning® Gorilla® Glass 3 or Sapphire Crystal
Bezel Material	stainless steel	stainless steel	stainless steel or Diamond-like Carbon (DLC) coated steel
Case material	fiber-reinforced polymer with metal rear cover	fiber-reinforced polymer with metal rear cover	fiber-reinforced polymer with metal rear cover
QuickFit™ watch band compatible	included (20 mm)	included (22 mm)	included (26 mm)
Strap material	silicone	silicone	silicone, leather, titanium or nylon
Physical size	42 x 42 x 13.8 mm	47 x 47 x 14.7 mm	51 x 51 x 14.9 mm
Display size	30.4 mm diameter	33.02 mm diameter	35.56 mm diameter
Display resolution	240 x 240 pixels	260 x 260 pixels	280 x 280 pixels
Display type	sunlight-visible, transfective memory-in-pixel (MIP)	sunlight-visible, transfective memory-in-pixel (MIP)	sunlight-visible, transfective memory-in-pixel (MIP)
Weight	Steel: 58 g	Steel: 80 g	Steel: 93 g
Battery life: smartwatch	Up to 9 days	Up to 14 days	Up to 21 days
Battery life: GPS	Up to 25 hours	Up to 36 hours	60 hours
Battery life: GPS & Music	-	-	Up to 15 hours
Max Battery GPS Mode:	50 hours	72 hours	120 hours
Expedition GPS Activity:	20 days	28 days	46 days
Battery Saver Watch Mode:	34 days	48 days	80 days
Water rating	10 ATM	10 ATM	10 ATM
Colour display	yes	yes	yes
Memory/History	64 MB	64 MB	32 GB
Clock Features			
Time/date	yes	yes	yes
GPS Time Sync	yes	yes	yes
Automatic daylight saving time	yes	yes	yes
Alarm clock	yes	yes	yes
Timer	yes	yes	yes
Stopwatch	yes	yes	yes
Sunrise/sunset times	yes	yes	yes
Sensors			
GPS	yes	yes	yes
GLONASS	yes	yes	yes
Galileo	yes	yes	yes
Garmin Elevate™ wrist heart rate monitor	yes	yes	yes
Barometric altimeter	yes	yes	yes
Compass	yes	yes	yes
Gyroscope	yes	yes	yes
Accelerometer	yes	yes	yes
Thermometer	yes	yes	yes
Pulse Ox	yes (with Acclimation)	yes (with Acclimation)	yes (with Acclimation)
Connectivity			
Connect IQ™	yes	yes	yes
Smart notifications	yes	yes	yes
Text response/reject phone call with text (Android™ only)	yes	yes	yes
Connectivity	Bluetooth® Smart, ANT+®	Bluetooth® Smart, ANT+®	Bluetooth®, ANT+®, Wi-Fi®
Calendar	yes	yes	yes
Weather	yes	yes	yes
Battery Saver - customizable low power watch	yes	yes	yes
Controls smartphone music	yes	yes	yes
Plays and controls watch music	-	-	-
Music Storage	-	-	up to 2,000 songs
Find My Phone	yes	yes	yes
Find My Watch	yes	yes	yes
VIRB® Camera Remote	yes	yes	yes
Smartphone compatibility	iPhone®, Android™	iPhone®, Android™	iPhone®, Android™
Compatible with Garmin Connect™ Mobile	yes	yes	yes
Garmin Pay™	yes	yes	yes
Safety and Tracking Features			
Incident Detection during select activities	yes	yes	yes
Assistance	yes	yes	yes
LiveTrack	yes	yes	yes
Group LiveTrack	yes	yes	yes
Live Event Sharing	yes	yes	yes
Tactical Features			
Dual grid coordinates	yes	yes	yes
Activity Tracking Features			
Step counter	yes	yes	yes
Move bar	yes	yes	yes
Auto goal	yes	yes	yes
Sleep monitoring	yes	yes	yes
Calories burned	yes	yes	yes
Floors climbed	yes	yes	yes
Distance traveled	yes	yes	yes
Intensity minutes	yes	yes	yes
TrueUp™	yes	yes	yes

MapWorld

Garmin Fenix 6 comparison

Move IQ™	yes	yes	yes
Fitness Age	yes (in app)	yes (in app)	yes (in app)
Body Battery™ Energy Monitor	yes	yes	yes
All-day Stress Tracking	yes	yes	yes
Gym & Fitness Equipment			
Available gym activity profiles	Strength, Cardio and Elliptical Training, Stair Stepping, Floor Climbing, Indoor Rowing and Yoga	Strength, Cardio and Elliptical Training, Stair Stepping, Floor Climbing, Indoor Rowing and Yoga	Strength, Cardio and Elliptical Training, Stair Stepping, Floor Climbing, Indoor Rowing and Yoga
Cardio workouts	yes	yes	yes
Strength workouts	yes	yes	yes
Automatic rep counting	yes	yes	yes
Training, Planning and Analysis Features			
GPS speed and distance	yes	yes	yes
Customizable data pages	yes	yes	yes
Customizable activity profiles	yes	yes	yes
Auto Pause®	yes	yes	yes
Interval training	yes	yes	yes
Advanced workouts	yes	yes	yes
Downloadable training plans	yes	yes	yes
Power Modes - customizable in-activity battery settings	yes	yes	yes
Auto Lap®	yes	yes	yes
Manual lap	yes	yes	yes
Configurable lap alerts	yes	yes	yes
Heat and altitude acclimation	yes	yes	yes
V02 max	yes	yes	yes
Training Status	yes	yes	yes
Training Load	yes	yes	yes
Training load focus	yes	yes	yes
Training Effect (aerobic)	yes	yes	yes
Training Effect (anaerobic)	yes	yes	yes
Primary benefit (Training Effect labels)	yes	yes	yes
Custom alerts	yes	yes	yes
Audio prompts	yes	yes	yes
Finish time	yes	yes	yes
Virtual Partner	yes	yes	yes
Race an Activity	yes	yes	yes
Auto multisport activities	yes	yes	yes
Manual multisport activities	yes	yes	yes
Course guidance	yes	yes	yes
Garmin Live Segments	yes	yes	yes
Strava Live Segments	yes	yes	yes
Round-trip course creator (running/cycling)	-	-	yes
Trendline™ Popularity Routing	-	-	yes (available as a wearable map theme)
Touch and/or button lock	yes	yes	yes
Hot keys	yes	yes	yes
Auto scroll	yes	yes	yes
Activity history on watch	yes	yes	yes
Physio TrueUp	yes	yes	yes
Heart Rate Features			
HR zones	yes	yes	yes
HR alerts	yes	yes	yes
HR calories	yes	yes	yes
% HR max	yes	yes	yes
% HRR	yes	yes	yes
Recovery time	yes	yes	yes
Auto max HR	yes	yes	yes
HRV stress tests	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
HR Broadcast	yes	yes	yes
Running Features			
Available run profiles	Running, Treadmill Running, Indoor Track Running, Trail Running	Running, Treadmill Running, Indoor Track Running, Trail Running	Running, Treadmill Running, Indoor Track Running, Trail Running
GPS-based distance, time and pace	yes	yes	yes
Running dynamics	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
Vertical oscillation and ratio	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
Ground contact time and balance	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
Stride length (real time)	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
Cadence (provides real-time number of steps per	yes	yes	yes
Performance condition	yes	yes	yes
Lactate threshold	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
PacePro™ Pacing Strategies	yes_preloaded_course	yes_preloaded_course	yes
Run workouts	yes	yes	yes
Race predictor	yes	yes	yes
Foot pod capable	yes	yes	yes
Golfing Features			
Preloaded with 41,000 courses worldwide			yes
Yardage to F/M/B	yes	yes	yes
Yardage to layups/doglegs	yes	yes	yes
Measures shot distance (calculates exact yardage)	Automatic	Automatic	Automatic
Digital scorecard	yes	yes	yes

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Garmin Fenix 6 comparison

Custom targets			yes
Stat tracking (strokes, putts per round, greens and	yes	yes	yes
Garmin AutoShot™	yes	yes	yes
Full vector map	yes	yes	yes
Auto CourseView updates	yes	yes	yes
Green View with manual pin position	yes	yes	yes
Hazards and course targets	yes	yes	yes
PinPointer	yes	yes	yes
PlaysLike distance			yes
Handicap scoring	yes	yes	yes
TruSwing™ compatible	yes	yes	yes
Round timer/odometer	yes	yes	yes
Automatic club tracking compatible (requires acco	yes	yes	yes
Outdoor Recreation Features			
Available outdoor recreation profiles	Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Jumpmaster, Tactical	Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Jumpmaster, Tactical	Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Jumpmaster, Tactical
Point-to-point navigation	yes	yes	yes
Bread crumb trail in real time	yes	yes	yes
Back to start	yes	yes	yes
TracBack®	yes	yes	yes
UltraTrac mode	yes	yes	yes
Around Me mode	yes	yes	yes
Elevation profile	yes	yes	yes
Distance to destination	yes	yes	yes
Barometric trend indicator with Storm Alert	yes	yes	yes
ClimbPro™ Ascent Planner	yes_preloaded_course	yes_preloaded_course	
Trail run auto climb	yes	yes	yes
Vertical speed	yes	yes	yes
Total ascent/descent	yes	yes	yes
Future elevation plot	yes_preloaded_course	yes_preloaded_course	yes
Preloaded topographical maps			yes
Preloaded ski resort maps			yes
Downloadable cartography support			yes
Compatible with BaseCamp™	yes	yes	yes
GPS coordinates	yes	yes	yes
Projected waypoint	yes	yes	yes
Sight 'N Go	yes	yes	yes
Area calculation	yes (via Connect IQ™)	yes (via Connect IQ™)	yes (via Connect IQ™)
Hunt/fish calendar	yes (via Connect IQ™)	yes (via Connect IQ™)	yes (via Connect IQ™)
Sun and moon information	yes (via Connect IQ™)	yes (via Connect IQ™)	yes (via Connect IQ™)
XERO™ Locations	yes	yes	yes
Expedition GPS Activity	yes	yes	yes
Cycling Features			
Available cycling profiles	Biking, Indoor Biking, Mountain Biking, Triathlon	Biking, Indoor Biking, Mountain Biking, Triathlon	Biking, Indoor Biking, Mountain Biking, Triathlon
Courses	yes	yes	yes
Bike lap and lap maximum power (with power se	yes	yes	yes
Race an activity	yes	yes	yes
Time/distance alerts (triggers alarm when you re	yes	yes	yes
FTP (Functional Threshold Power)	yes (with compatible accessory)	yes (with compatible accessory)	yes (with compatible accessory)
Cycle Map (routable cycling-specific street map)			yes
Compatible with Vector™ (power meter)	yes	yes	yes
Power meter compatible	yes	yes	yes
Compatible with Varia Vision™ (head-mounted di	yes	yes	yes
Compatible with Varia™ radar (rear-facing radar)	yes	yes	yes
Compatible with Varia™ lights	yes	yes	yes
Speed and cadence sensor support (with sensor)	yes (ANT+® and Bluetooth® Smart sensor)	yes (ANT+® and Bluetooth® Smart sensor)	yes (ANT+® and Bluetooth® Smart sensors)
Swimming Features			
Available swim profiles	Pool Swimming, Open Water Swimming, Swimming/Running	Pool Swimming, Open Water Swimming, Swimming/Running	Pool Swimming, Open Water Swimming, Swimming/Running
Open-water swim metrics	yes	yes	yes
Pool swim metrics	yes	yes	yes
Stroke type detection	yes	yes	yes
Drill logging (Pool Swim Only)	yes	yes	yes
Basic rest timer (up from 0)	yes	yes	yes
Countdown start	yes	yes	yes
Pool swim workouts	yes	yes	yes
Underwater wrist-based heart rate	yes	yes	yes
Heart rate from external HRM	yes (with HRM-Tri™ and HRM-Swim™)	yes (with HRM-Tri™ and HRM-Swim™)	yes (with HRM-Tri™ and HRM-Swim™)