

Product Comparison



Instinct® Solar
\$399.99 USD

Rugged GPS smartwatch with solar charging



Instinct®
\$299.99 USD

Rugged, reliable outdoor GPS watch



Instinct® Solar – Surf Edition
\$449.99 USD

Rugged GPS smartwatch with solar charging and dedicated surf features



fēnix® 6 - Pro Solar Edition
\$849.99 USD and Up

Premium solar-powered multisport GPS watches with pace guidance, wrist based heart rate, Pulse Ox, routable maps, music and more

Show Only Differences

▼ General

Lens Material	Power Glass™	chemically strengthened glass	Power Glass™	Power Glass™
Bezel Material	fiber-reinforced polymer	fiber-reinforced polymer	fiber-reinforced polymer	stainless steel or Diamond-Like Carbon (DLC) coated titanium
Case material	fiber-reinforced polymer	fiber-reinforced polymer	fiber-reinforced polymer	fiber-reinforced polymer with metal rear cover
QuickFit™ watch band compatible	yes (22 mm)	yes (22 mm)	yes (22 mm)	included (22 mm)
Strap material	silicone	silicone	silicone	silicone or titanium
Physical size	45 x 45 x 15.3 mm Fits wrists with a circumference of 132-224 mm	45 x 45 x 15.3 mm Fits wrists with a circumference of 132-224 mm	45 x 45 x 15.3 mm Fits wrists with a circumference of 132-224 mm	47 x 47 x 15.1 mm Fits wrists with the following circumference: Silicone band: 125-208 mm Leather band: 132-210 mm Fabric band: 132-210 mm Metal band: 132-215 mm
Color display				✓
Display size	custom, two-window design; 0.9" x 0.9" (23 x 23 mm)	custom, two-window design; 0.9" x 0.9" (23 x 23 mm)	custom, two-window design; 0.9" x 0.9" (23 x 23 mm)	1.3" (33.02 mm) diameter
Display resolution	128 x 128 pixels	128 x 128 pixels	128 x 128 pixels	260 x 260 pixels
Display type	monochrome, sunlight-visible, transfective memory-in-pixel (MIP)	monochrome, sunlight-visible, transfective memory-in-pixel (MIP)	monochrome, sunlight-visible, transfective memory-in-pixel (MIP)	sunlight-visible, transfective memory-in-pixel (MIP)
Weight	53 g	52 g	53 g	Steel: 85 g (case only: 62 g) Titanium: 72 g (case only: 62 g)

				48 g)
Battery life	Smartwatch: Up to 24 days/54 days with solar* Battery Saver Watch Mode: Up to 56 days/Unlimited with solar* GPS: Up to 30 hours/38 hours with solar** Max Battery GPS Mode: Up to 70 hours/145 hours with solar** Expedition GPS Activity: Up to 28 days/68 days with solar* *Solar charging, assuming all-day wear with 3 hours per day outside in 50,000 lux conditions **Solar charging, assuming use in 50,000 lux conditions	Smartwatch mode: Up to 14 days GPS mode: Up to 16 hours UltraTrac™ mode: Up to 40 hours	Smartwatch: Up to 24 days/54 days with solar* Battery Saver Watch Mode: Up to 56 days/Unlimited with solar* GPS: Up to 30 hours/38 hours with solar** Max Battery GPS Mode: Up to 70 hours/145 hours with solar** Expedition GPS Activity: Up to 28 days/68 days with solar* *Solar charging, assuming all-day wear with 3 hours per day outside in 50,000 lux conditions **Solar charging, assuming use in 50,000 lux conditions	Smartwatch: Up to 14 days/16 days with solar* Battery Saver Watch Mode: Up to 48 days/80 days with solar* GPS: Up to 36 hours/40 hours with solar** GPS + Music: Up to 10 hours Max Battery GPS Mode: Up to 72 hours/93 hours with solar** Expedition GPS Activity: Up to 28 days/36 days with solar* *Solar charging, assuming all-day wear with 3 hours per day outside in 50,000 lux conditions **Solar charging, assuming use in 50,000 lux conditions
Water rating	10 ATM	10 ATM	10 ATM	10 ATM
Memory/History	16 MB	16 MB	16 MB	32 GB

▼ Clock Features

Time/date	✓	✓	✓	✓
GPS Time Sync	✓	✓	✓	✓
Automatic daylight saving time	✓	✓	✓	✓
Alarm clock	✓	✓	✓	✓
Timer	✓	✓	✓	✓
Stopwatch	✓	✓	✓	✓
Sunrise/sunset times	✓	✓	✓	✓

▼ Health Monitoring

Wrist-based Heart Rate (constant, every second)	✓	✓	✓	✓
Daily Resting Heart Rate	✓	✓	✓	✓
Abnormal Heart Rate Alerts	yes (high and low)	yes (high and low)	yes (high and low)	yes (high and low)
Respiration rate (24x7)				✓
Pulse Ox Blood Oxygen Saturation				yes (spot-check, and optional all-day acclimation and in sleep)
Fitness Age				yes (in app)
Body Battery™ Energy Monitor	✓	✓	✓	✓
All-day Stress Tracking	✓	✓	✓	✓
Relaxation reminders				✓
Relaxation breathing timer	✓	✓	✓	✓
Sleep	✓	✓	✓	✓
Advanced sleep monitoring (sleep score)				✓

& insights)				
Hydration	yes (in Garmin Connect™)	yes (in Garmin Connect™)	yes (in Garmin Connect™)	yes (in Garmin Connect™ and optional Connect IQ™ widget)
Menstrual Cycle	yes (in Garmin Connect™)	yes (in Garmin Connect™)	yes (in Garmin Connect™)	yes (in Garmin Connect™ and optional Connect IQ™ widget)

▼ Sensors

GPS	✓	✓	✓	✓
GLONASS	✓	✓	✓	✓
Galileo	✓	✓	✓	✓
Garmin Elevate™ wrist heart rate monitor	✓	✓	✓	✓
Barometric altimeter	✓	✓	✓	✓
Compass	✓	✓	✓	✓
Gyroscope				✓
Accelerometer	✓	✓	✓	✓
Thermometer	✓	✓	✓	✓
Pulse Ox Blood Oxygen Saturation Monitor	✓		✓	yes (with Acclimation)

▼ Daily Smart Features

Connectivity	Bluetooth®, ANT+®	Bluetooth®, ANT+®	Bluetooth®, ANT+®	Bluetooth®, ANT+®, Wi-Fi®
Connect IQ™ (downloadable watch faces, data fields, widgets and apps)				✓
Smart notifications	✓	✓	✓	✓
Text response/reject phone call with text (Android™ only)	✓	✓	✓	✓
Calendar	✓	✓	✓	✓
Weather	✓	✓	✓	✓
Battery Saver - customizable low power watch	✓		✓	✓
Controls smartphone music	✓	✓	✓	✓
Plays and controls watch music				✓
Music Storage				Up to 2,000 songs
Find My Phone	✓	✓	✓	✓
Find My Watch	✓	✓	✓	✓
VIRB® Remote	✓	✓	✓	✓
Smartphone compatibility	iPhone®, Android™	iPhone®, Android™	iPhone®, Android™	iPhone®, Android™
Pairs with Garmin Connect™ Mobile	✓	✓	✓	✓
Garmin Pay™				✓

▼ Safety and Tracking Features

LiveTrack	✓	✓	✓	✓
Group LiveTrack				✓
Live Event Sharing				✓

Incident Detection during select activities				✓
Assistance				✓

▼ Tactical Features

Dual grid coordinates	✓	✓	✓	✓
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▼ Activity Tracking Features

Step counter	✓	✓	✓	✓
Move bar (displays on device after a period of inactivity; walk for a couple of minutes to reset it)	✓	✓	✓	✓
Auto goal (learns your activity level and assigns a daily step goal)	✓	✓	✓	✓
Calories burned	✓	✓	✓	✓
Floors climbed	✓	✓	✓	✓
Distance traveled	✓	✓	✓	✓
Intensity minutes	✓	✓	✓	✓
TrueUp™	✓	✓	✓	✓
Move IQ™	✓	✓	✓	✓

▼ 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	Strength, Cardio and Elliptical Training, Stair Stepping, Floor Climbing, Indoor Rowing, Pilates and Yoga
Cardio workouts	✓	✓	✓	✓
Strength workouts	✓	✓	✓	✓
Yoga workouts				✓
Pilates workouts				✓
On-screen workout animations				✓
Automatic rep counting	✓	✓	✓	✓

▼ Training, Planning and Analysis Features

HR zones	✓	✓	✓	✓
HR alerts	✓	✓	✓	✓
HR calories	✓	✓	✓	✓
% HR max	✓	✓	✓	✓
% HRR	✓	✓	✓	✓
Recovery time				✓
Auto max HR	✓	✓	✓	✓
HRV stress test (measures your heart rate variability while standing still, for 3 minutes, to provide you with an estimated stress level; the scale of this is 1 to 100; low scores indicate lower stress levels)				yes (with compatible accessory)

HR Broadcast (broadcasts HR data over ANT+™ to paired devices)	✓	✓	✓	✓
Respiration rate (during exercise)				yes (with compatible accessory)
GPS speed and distance	✓	✓	✓	✓
Customizable data pages	✓	✓	✓	✓
Customizable activity profiles	✓	✓	✓	✓
Auto Pause®	✓	✓	✓	✓
Interval training	✓	✓	✓	✓
Advanced workouts	✓	✓	✓	✓
Downloadable training plans	✓	✓	✓	✓
Power Modes - customizable in-activity battery settings	✓		✓	✓
Auto Lap®	✓	✓	✓	✓
Manual lap	✓	✓	✓	✓
Configurable lap alerts	✓	✓	✓	✓
Heat and altitude acclimation				✓
Vo2 max				✓
Training Status (lets you see if you're training effectively by tracking your training history and fitness level trend.)				✓
Training Load (your total training load for the last 7 days calculated from estimated EPOC)				✓
Training load focus				✓
Training Effect				✓
Training Effect (anaerobic)				✓
Primary benefit (Training Effect labels)				✓
Custom alerts	✓	✓	✓	✓
Audio prompts	✓	✓	✓	✓
Finish time	✓	✓	✓	✓
Virtual Partner	✓	✓	✓	✓
Race an Activity	✓	✓	✓	✓
Auto multisport activities				✓
Manual multisport activities				✓
Course guidance	✓	✓	✓	✓
Garmin Live Segments				✓
Strava Live Segments				✓
Round-trip course creator (running/cycling)				✓
Trendline™ Popularity Routing				✓
Touch and/or button lock	✓	✓	✓	✓
Hot keys	✓	✓	✓	✓
Auto scroll	✓	✓	✓	✓
Activity history on watch	✓	✓	✓	✓
Physio TrueUp	✓	✓	✓	✓

▼ Running Features

Available run profiles	Running, Treadmill	Running, Treadmill	Running, Treadmill	Running, Treadmill
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	Running, Indoor Track Running, Trail Running	Running, Indoor Track Running, Trail Running	Running, Indoor Track Running, Trail Running	Running, Indoor Track Running, Trail Running, Virtual Running
GPS-based distance, time and pace	✓	✓	✓	✓
Running dynamics				yes (with compatible accessory)
Vertical oscillation and ratio (the degree of 'bounce' in your running motion and the cost-benefit ratio with stride length)				yes (with compatible accessory)
Ground contact time and balance (shows how much time, in the running motion, your foot is on the ground rather than in flight and lets you check your running symmetry)				yes (with compatible accessory)
Stride length (real time)				yes (with compatible accessory)
Cadence (provides real-time number of steps per minute)	✓	✓	✓	✓
Performance condition (after running 6–20 minutes, compares your real-time condition to your average fitness level)				✓
Lactate threshold (through analysis of your pace and heart rate, estimates the point where your muscles start to rapidly fatigue)				yes (with compatible accessory)
PacePro™ Pacing Strategies				✓
Run workouts	✓	✓	✓	✓
Race predictor				✓
Foot pod capable	✓	✓	✓	✓

▼ Golfing Features

Preloaded with 41,000 courses worldwide				✓
Yardage to F/M/B (distance to front, middle and back of green)				✓
Yardage to layups/doglegs				✓
Measures shot distance (calculates exact yardage for shots from anywhere on course)				Automatic
Digital scorecard				✓
Custom targets				✓
Stat tracking (strokes, putts per round, greens and fairways hit)				✓
Garmin AutoShot™				✓
Full vector map				✓
Auto CourseView updates				✓
Green View with manual pin position				✓
Hazards and course targets				✓
PinPointer				✓
PlaysLike distance				✓
Touch-targeting (touch target on display to see the distance to any point)				✓

Handicap scoring				✓
TruSwing™ compatible				✓
Round timer/odometer				✓
Automatic club tracking compatible (requires accessory)				✓

▼ Outdoor Recreation

Available outdoor recreation profiles	Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Fishing, Hunting, Tactical	Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Tactical	Surfing, Stand Up Paddleboarding, Rowing, Kayaking, Hiking, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Fishing, Hunting, Tactical	Hiking, Indoor and Outdoor Climbing, Bouldering, Surfing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Jumpmaster, Tactical
Point-to-point navigation	✓	✓	✓	✓
Bread crumb trail in real time	✓	✓	✓	✓
Back to start	✓	✓	✓	✓
TracBack®	✓	✓	✓	✓
UltraTrac mode	✓	✓	✓	✓
Around Me mode				✓
Elevation profile	✓	✓	✓	✓
Distance to destination	✓	✓	✓	✓
Barometric trend indicator with Storm Alert	✓	✓	✓	✓
ClimbPro™ Ascent Planner				✓
Trail run auto climb	✓	✓	✓	✓
Vertical speed	✓	✓	✓	✓
Total ascent/descent	✓	✓	✓	✓
Future elevation plot	✓	✓	✓	✓
Preloaded topographical maps				✓
Preloaded ski resort maps				✓
Downloadable cartography support				✓
Compatible with BaseCamp™	✓	✓	✓	✓
GPS coordinates	✓	✓	✓	✓
Sight 'N Go	✓	✓	✓	✓
Area calculation	✓	✓	✓	yes (via Connect IQ™)
Hunt/fish calendar				yes (via Connect IQ™)
Projected waypoint	✓	✓	✓	✓
Sun and moon information	✓	✓	✓	yes (via Connect IQ™)
XERO™ Locations	✓	✓	✓	✓
Expedition GPS Activity	✓		✓	✓
Tides			✓	yes (via Connect IQ™)

▼ Cycling Features

Alerts (triggers alarm when you reach goals including time, distance, heart rate or calories)	✓	✓	✓	✓
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Courses	✓	✓	✓	✓
Cycle Map (routable cycling-specific street map)				✓
MTB Grit & Flow				✓
Available cycling profiles	Biking, Indoor Biking, Mountain Biking	Biking, Indoor Biking, Mountain Biking	Biking, Indoor Biking, Mountain Biking	Biking, Indoor Biking, Mountain Biking, Triathlon
Bike lap and lap maximum power (with power sensor)				✓
Race an activity	✓	✓	✓	✓
FTP (Functional Threshold Power)				yes (with compatible accessory)
Compatible with Vector™ (power meter)				✓
Power meter compatible				✓
Advanced Vector support				✓
Compatible with Varia Vision™ (head-mounted display)				✓
Compatible with Varia™ radar (rear-facing radar)				✓
Compatible with Varia™ lights				✓
Speed and cadence sensor support (with sensor)	yes (ANT+® and Bluetooth® Smart sensors)	yes (ANT+® and Bluetooth® Smart sensors)	yes (ANT+® and Bluetooth® Smart sensors)	yes (ANT+® and Bluetooth® Smart sensors)

▼Swimming Features

Available swim profiles	Pool Swimming, Open Water Swimming	Pool Swimming, Open Water Swimming	Pool Swimming, Open Water Swimming	Pool Swimming, Open Water Swimming, Swimming/Running
Open-water swim metrics (distance, pace, stroke count/rate, stroke distance, swim efficiency (SWOLF), calories)	✓	✓	✓	✓
Pool swim metrics (lengths, distance, pace, stroke count, swim efficiency (SWOLF), calories)	✓	✓	✓	✓
Stroke type detection (freestyle, backstroke, breaststroke, butterfly) (pool swim only)	✓	✓	✓	✓
Drill logging (pool swim only)	✓	✓	✓	✓
Basic rest timer (up from 0) (pool swim only)	✓	✓	✓	✓
"Repeat on" rest timer (pool swim only)	✓	✓	✓	✓
Auto Rest (Pool Swim Only)				✓
Time and distance alerts	✓		✓	✓
Pacing alerts (pool swim only)				✓
Countdown start (pool swim only)				✓
Pool swim workouts	✓	✓	✓	✓
Critical swim speed				✓
Underwater wrist-based heart rate	✓		✓	✓
Heart rate from external HRM (real-time during rests, interval and session stats during rests, and automatic heart				yes (with HRM-Tri™ and HRM-Swim™)

rate download post-swim)				
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▼ Kid Activity Tracking Features

Toe-to-Toe™ Challenges				yes (optional Connect IQ app)
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