Garmin fenix 7X Series Specifications

| | fenix 7X Solar | fenix 7X Sapphire Solar | |
|---|---|---|--|
| General | | | |
| | D 01 71 | D 0 1: 79 | |
| Lens Material | Power Glass™ | Power Sapphire™ | |
| Bezel Material | stainless steel | titanium | |
| Case material | fiber-reinforced polymer with metal rear cover | fiber-reinforced polymer with metal rear cover | |
| QuickFit™ watch band compatible | included (26 mm) | included (26 mm) | |
| Strap material | silicone | silicone | |
| Physical size | 51 x 51 x 14.9 mm | 51 x 51 x 14.9 mm | |
| | Fits wrists with the following circumference: | Fits wrists with the following circumference: | |
| | Silicone band: 127-210 mm | Silicone band: 127-210 mm | |
| | Leather Band: 135-213 mm | Leather Band: 135-213 mm | |
| | Fabric Band: 135-213 mm | Fabric Band: 135-213 mm | |
| | Metal Band: 135-225 mm | Metal Band: 135-225 mm | |
| Touchscreen | √ | √ | |
| Color display | √ | √ | |
| LED flashlight | √ | √ | |
| Display Size | 1.4" (35.56 mm) diameter | 1.4" (35.56 mm) diameter | |
| Display Resolution | 280 x 280 pixels | 280 x 280 pixels | |
| Display Type | sunlight-visible, transflective memory-in-pixel (MIP) | sunlight-visible, transflective memory-in-pixel (MIP) | |
| Weight | 96 g (case only: 68 g) | 89 g (case only: 61 g) | |
| | Smartwatch: Up to 28 days/37 days with solar* Battery Saver Watch Mode: Up to 90 days/1+ year with solar* | Smartwatch: Up to 28 days/37 days with solar* Battery Saver Watch Mode: Up to 90 days/1+ year with solar* | |
| | GPS Only: Up to 89 hours/122 hours with solar** | GPS Only: Up to 89 hours/122 hours with solar** | |
| | All Satellite Systems: Up to 63 hours/77 hours with solar* | All Satellite Systems: Up to 63 hours/77 hours with solar* | |
| Battery life | All Satellite Systems and Music: Up to 16 hours | All Satellite Systems and Multi-band: Up to 36 hours/4 hours with solar** | |
| zatory mo | Max Battery GPS: Up to 213 hours/578 hours with solar** | All Satellite Systems and Music: Up to 16 hours | |
| | Expedition GPS: Up to 62 days/ 139 days with solar* | Max Battery GPS: Up to 213 hours/578 hours with solar** | |
| | *Solar charging, assuming all-day wear with 3 hours per day outside in 50,000 lux conditions | Expedition GPS: Up to 62 days/ 139 days with solar* | |
| | **Solar charging, assuming use in 50,000 lux conditions | *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 | |
| Memory/History | 16 GB | 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) | |
| Respiration rate (24x7) | √ · | √ · · · · · · · · · · · · · · · · · · · | |
| Pulse Ox Blood Oxygen Saturation | yes (spot-check, and optional all-day acclimation and in sleep) | yes (spot-check, and optional all-day acclimation and in sleep) | |
| | | ., | |
| Fitness Age | yes (in app) | yes (in app) | |

| All-day Stress | ✓ | | | √ |
|---|---|---------------------|-----------------------------------|--------------------------|
| Relaxation reminders | · ✓ | | | <u>·</u> ✓ |
| Relaxation breathing timer | ✓ | | | <u>√</u> |
| Sleep | yes (advanced) | | yes (advanced) | • |
| • | yes (advanced) | | yes (auvanceu) | √ |
| Sleep score and insights Hydration | yes (in Garmin Connect™ ar | nd optional Connect | yes (in Garmin Connect™ | |
| Women's Health | IQ™ widget) yes (in Garmin Connect™ ar | nd optional Connect | widget) yes (in Garmin Connect™ : | and optional Connect IQ™ |
| | IQ™ widget) | | widget) | <u>√</u> |
| Sensors | V | | | v |
| GPS | ✓ | | | ✓ |
| GLONASS | ✓ | | | ✓ |
| Galileo | ✓ | | | ✓ |
| Multi-frequency Positioning | ✓ | | | ✓ |
| Garmin Elevate™ wrist heart rate monitor | √ | | | ✓ |
| Barometric altimeter | √ | | | √ |
| Compass | · · · · · · · · · · · · · · · · · · · | | | <u>,</u> ✓ |
| Gyroscope | √ | | | <u>√</u> |
| | | | | v √ |
| Accelerometer | √ | | | √ |
| Thermometer | · · | | | |
| Pulse Ox Blood Oxygen Saturation Monitor | ✓ | | | √ |
| Daily Smart Feature | S | | | |
| Connectivity | Bluetooth®, ANT+®, Wi-Fi® |) | Bluetooth®, ANT+®, Wi-Fi | ® |
| Connect IQ™ (downloadable watch faces, | ✓ | | | ✓ |
| data fields, widgets and apps) | | | | |
| On-device Connect IQ™ Store | ✓ | | | √ |
| Smart Notifications | ✓ | | | ✓ |
| Text response/reject phone call with text (Android™ only) | ✓ | | | ✓ |
| Calendar | ✓ | | | ✓ |
| Weather | ✓ | | | \checkmark |
| Realtime settings sync with Garmin Connect™ mobile | ✓ | | | \checkmark |
| Battery saver (customizable low power watch) | ✓ | | | ✓ |
| Controls smartphone music | ✓ | | | \checkmark |
| Plays and controls watch music | ✓ | | | ✓ |
| Music storage | up to 2,000 songs | | up to 2,000 songs | |
| Find My Phone | ✓ | | - | ✓ |
| Find My Watch | ✓ | | | ✓ |
| VIRB® Remote | ✓ | | | ✓ |
| Smartphone compatibility | iPhone®, Android™ | | iPhone®, Android™ | |
| Pairs with Garmin Golf app | # 110110€, 7 #11d101d | | ., | √ |
| Pairs with Garmin Connect™ Mobile | · ✓ | | | <u>·</u> ✓ |
| Garmin Pay™ | · · | | | <u>·</u> √ |
| Safety and Tracking | | | | · |
| LiveTrack | √ | | | √ |
| | | | | <u>v</u> √ |
| Group LiveTrack | √ | | | <u>√</u> |
| Live Event Sharing | | | | <u> </u> |
| Incident Detection during select activities | √ | | | <u>√</u> |
| Assistance | ✓ | | | ✓ |
| Tactical Features | | | | |
| Dual grid coordinates | ✓ | | | ✓ |
| Activity Tracking Fea | atures | | | |
| Step counter | ✓ | | | √ |
| oreh conner | | | | • |

| 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™ | · · | , |
| Garmin Connect™ Challenges app | yes (optional Connect IQ app) | yes (optional Connect IQ app) |
| Gym & Fitness Equip | | yes (optional conflect to app) |
| Available gym activity profiles | Yoga | Strength, HIIT, Cardio and Elliptical Training, Stair Stepping, Floor Climbing, Indoor Rowing, Pilates and Yoga |
| Cardio workouts | ✓ | ✓ |
| Strength workouts | √ | √ |
| HIIT workouts | √ | √ |
| Yoga workouts | √ | √ |
| Pilates workouts | √ | √ |
| On-screen workout animations | √ | √ |
| Automatic rep counting | ✓ | ✓ |
| Training, Planning a | nd 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 | yes (with compatible accessory) | yes (with compatible accessory) |
| stress level; the scale of this is 1 to 100; low scores indicate lower stress levels) | | |
| HR Broadcast (broadcasts HR data over ANT+™ to paired devices) | ✓ | ✓ |
| Respiration rate (during exercise) | yes (with compatible accessory) | 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 (Run) | · · | , |
| VO2 Max (Run) | · · | , |
| Realtime stamina | · · | , |
| Training Status (lets you see if you're training effectively by tracking your training history and fitness level trend.) | | <i>✓</i> |
| Training Load (your total training load for the last 7 days calculated from estimated EPOC) | ✓ | ✓ |
| Training load focus | ✓ | ✓ |
| | ✓ | ✓ |

| Training Effect (anaerobic) | √ | √ | |
|--|--|--|--|
| Primary benefit (Training Effect labels) | ✓ | ✓ | |
| Improved recovery time | ✓ | ✓ | |
| Daily suggested workouts | ✓ | ✓ | |
| 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, Track Running, Treadmill Running, Indoor Track Running, Trail Running, Virtual Running, Ultra Running | Running, Track Running, Treadmill Running, Indoor Track Running, Trail Running, Virtual Running, Ultra Running | |
| CPS based distance time and page | Kullilling √ | Kullilling | |
| GPS-based distance, time and pace | | | |
| Running dynamics Vertical oscillation and ratio (the degree of | yes (with compatible accessory) | yes (with compatible accessory) | |
| 'bounce' in your running motion and the | yes (with compatible accessory) | yes (with compatible accessory) | |
| cost-benefit ratio with stride length) | | | |
| 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) | 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 | yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) 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) yes (with compatible accessory) | 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) Stride length (real time) Cadence (provides real-time number of steps per minute) | 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) Stride length (real time) Cadence (provides real-time number of | yes (with compatible accessory) yes (with compatible accessory) | 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) Stride length (real time) Cadence (provides real-time number of steps per minute) Performance condition (after running 6–20 minutes, compares your real-time condition | yes (with compatible accessory) yes (with compatible accessory) | 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) Stride length (real time) 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 | yes (with compatible accessory) yes (with compatible accessory) ✓ yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) yes (with compatible accessory) ✓ yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) PacePro™ Pacing Strategies | yes (with compatible accessory) yes (with compatible accessory) ✓ yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts | yes (with compatible accessory) yes (with compatible accessory) ✓ yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) ✓ 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 courses worldwide Yardage to F/M/B (distance to front, middle | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 courses worldwide Yardage to F/M/B (distance to front, middle and back of green) | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 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 | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 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) | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | |
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| 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 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) Digital scorecard Custom targets Stat tracking (strokes, putts per round, | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 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) Digital scorecard Custom targets Stat tracking (strokes, putts per round, greens and fairways hit) | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) 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) Stride length (real time) 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) PacePro™ Pacing Strategies Run workouts Race predictor Foot pod capable Golfing Features Preloaded with 42,000 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) Digital scorecard Custom targets Stat tracking (strokes, putts per round, | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | yes (with compatible accessory) yes (with compatible accessory) yes (with compatible accessory) | |

| Auto Coursellieur undetes | √ | ✓ | |
|---|---|---|--|
| 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) | ✓ | ✓ | |
| Tournament legal | ✓ | ✓ | |
| Outdoor Recreation | | | |
| Available outdoor recreation profiles | Hiking, Indoor Climbing, Bouldering, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Surfing, Hunting, Jumpmaster, Tactical, Kiteboard, Windsurf, Snowshoe, Tennis, Pickleball | Hiking, Indoor Climbing, Bouldering, Climbing, Mountain Biking, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Surfing, Hunting, Jumpmaster, Tactical, Kiteboard, Windsurf, Snowshoe, Tennis, Pickleball | |
| Point-to-point navigation | ✓ | ✓ | |
| Bread crumb trail in real time | ✓ | ✓ | |
| Back to start | ✓ | ✓ | |
| TracBack® | ✓ | ✓ | |
| UltraTrac mode | ✓ | ✓ | |
| Around Me mode | ✓ | ✓ | |
| Up Ahead | ✓ | ✓ | |
| 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 | х | ✓ | |
| Preloaded road and trail maps | x | ✓ | |
| Preloaded ski resort maps | · · | ✓ | |
| Downloadable cartography support | √ | √ | |
| Compatible with BaseCamp™ | · ✓ | √ | |
| GPS coordinates | √ | √ | |
| Sight 'N Go | · · | · · | |
| Area calculation | yes (via Connect IQ™) | yes (via Connect IQ™) | |
| Hunt/fish calendar | yes (via Connect IQ™) | yes (via Connect IQ™) | |
| Projected waypoint | yes (via connecting) | yes (via connect to) ✓ | |
| Sun and moon information | yes (via Connect IQ™) | yes (via Connect IQ™) | |
| XERO™ Locations | yes (via Connect iQ ····) | yes (via Connect iQ ····) ✓ | |
| Expedition GPS Activity | √ | ∨ ✓ | |
| - | yes (via Connect IQ™) | yes (via Connect IQ™) | |
| Tides | yes (via connection) | yes (via Cullied id) | |
| Cycling Features | | | |
| Available cycling profiles | Biking, Indoor Biking, Mountain Biking, Triathlon | Biking, Indoor Biking, Mountain Biking, Triathlon | |
| Alerts (triggers alarm when you reach goals including time, distance, heart rate or calories) | ✓ | ✓ | |
| Courses | ✓ | ✓ | |
| Cycle Map (routable cycling-specific street map) | ✓ | ✓ | |
| MTB Grit & Flow | ✓ | ✓ | |
| Bike lap and lap maximum power (with power sensor) | ✓ | ✓ | |
| Race an activity | ✓ | ✓ | |
| | · | · | |

| FTP (Functional Threshold Power) | yes (with compatible accessory) | 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 (w/sensor) | ✓ | ✓ | |
| Swimming Features | | | |
| Available swim profiles | Pool Swimming, Open Water Swimming, Swimming/Running | 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 rate download post-swim) | yes (with HRM-Tri™, HRM-Swim™ and HRM-Pro™) | yes (with HRM-Tri™, HRM-Swim™ and HRM-Pro™) | |
| Kid Activity Tracking | Features | | |
| Toe-to-Toe™ Challenges app | yes (optional Connect IQ Toe-to-Toe™ Challenges app) | yes (optional Connect IQ Toe-to-Toe™ Challenges app) | |
| Connectivity | | | |
| Smart trainer control | | | |