Garmin Instinct 2 & 2S - Standard Edition Specifications

	Instinct 2	Instinct 2s
General		
Lens Material	Power Glass™	Power Glass™
Bezel Material	fiber-reinforced polymer	fiber-reinforced polymer
Case material	fiber-reinforced polymer	fiber-reinforced polymer
QuickFit™ watch band compatible	yes (22 mm)	yes (20 mm)
Strap material	silicone	silicone
	45 x 45 x 14.5 mm	40 x 40 x 13.3 mm
Physical size	Fits wrists with a circumference of 135-230 mm	Fits wrists with a circumference of 112-180 mm
Display Size	custom, two-window design; 0.9" x 0.9" (23 x 23 mm)	custom, two-window design; 0.79" x 0.79" (20.12 x 20.12 mm)
Display Resolution	176 x 176 pixels	156 x 156 pixels (active area)
Display Type	monochrome, sunlight-visible, transflective memory-in-pixel (MIP)	monochrome, sunlight-visible, transflective memory-in-pixel (MIP)
Weight	52 g	42 g
	Smartwatch: Up to 28 days	Smartwatch: Up to 21 days
	Battery Saver Watch Mode: Up to 65 days	Battery Saver Watch Mode: Up to 50 days
Battery life	GPS: Up to 30 hours	GPS: Up to 22 hours
	Max Battery GPS Mode: Up to 70 hours	Max Battery GPS Mode: Up to 54 hours
	Expedition GPS Activity: Up to 32 days	Expedition GPS Activity: Up to 25 days
Water rating	10 ATM	10 ATM
Memory/History	32 MB	32 MB
Clock Features		
Time/date	\checkmark	\checkmark
GPS Time Sync	\checkmark	\checkmark
Automatic daylight saving time	\checkmark	\checkmark
Alarm clock	\checkmark	\checkmark
Timer	\checkmark	\checkmark
Stopwatch	\checkmark	\checkmark
Sunrise/sunset times	\checkmark	\checkmark
Health Monitoring		
Wrist-based Heart Rate (constant, every second)	\checkmark	\checkmark
Daily Resting Heart Rate	\checkmark	\checkmark
Abnormal Heart Rate Alerts	yes (high and low)	yes (high and low)
Respiration rate (24x7)	√	\checkmark
Pulse Ox Blood Oxygen Saturation	yes (spot-check, during sleep, all day)	yes (spot-check, during sleep, all day)
Fitness Age	\checkmark	\checkmark
Body Battery™ Energy Monitor	\checkmark	\checkmark
All-day Stress	\checkmark	\checkmark
Relaxation breathing timer	\checkmark	\checkmark
Sleep	\checkmark	\checkmark
Sleep score and insights	\checkmark	\checkmark
Hydration	yes (in Garmin Connect™)	yes (in Garmin Connect™)
Women's Health	yes (in Garmin Connect™)	yes (in Garmin Connect™)
Health snapshot	\checkmark	\checkmark
Sensors		
GPS	\checkmark	\checkmark
GLONASS	\checkmark	\checkmark

Galileo	\checkmark	\checkmark
Garmin Elevate™ wrist heart rate monitor	\checkmark	\checkmark
Barometric altimeter	\checkmark	\checkmark
Compass	\checkmark	\checkmark
Accelerometer	\checkmark	\checkmark
Thermometer	\checkmark	\checkmark
Pulse Ox Blood Oxygen Saturation Monitor	\checkmark	\checkmark

Daily Smart Features

Connectivity		
Connectivity	Bluetooth®, ANT+®	Bluetooth®, ANT+®
Connect IQ™ (downloadable watch	\checkmark	\checkmark
faces, data fields, widgets and apps)	·	
Smart Notifications	\checkmark	\checkmark
Text response/reject phone call with text (Android™ only)	\checkmark	\checkmark
Calendar	\checkmark	\checkmark
Weather	\checkmark	\checkmark
Realtime settings sync with Garmin Connect™ mobile	\checkmark	\checkmark
Battery saver (customizable low power watch)	\checkmark	\checkmark
Controls smartphone music	\checkmark	\checkmark
Find My Phone	\checkmark	\checkmark
Find My Watch	\checkmark	\checkmark
VIRB® Remote	\checkmark	√
Smartphone compatibility	iPhone®, Android™	iPhone®, Android™
Pairs with Garmin Golf app	\checkmark	√
Pairs with Garmin Connect™ Mobile	\checkmark	\checkmark

Safety and Tracking Features

LiveTrack	\checkmark	\checkmark
Incident Detection during select activities	\checkmark	\checkmark
Assistance	\checkmark	\checkmark

 \checkmark

 \checkmark

Tactical Features

Dual grid coordinates

Activity Tracking Features

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

Gym & Fitness Equipment

Available gym activity profiles	Strength, Cardio and Elliptical Training, HIIT, Stair Stepping, Floor Climbing, Indoor Rowing, and Yoga	Strength, Cardio and Elliptical Training, HIIT, Stair Stepping, Floor Climbing, Indoor Rowing, and Yoga
Cardio workouts	√ v	√ √
Strength workouts	\checkmark	\checkmark

HIIT workouts	\checkmark	\checkmark
Automatic rep counting	\checkmark	\checkmark
	nd Analysis Fasturas	
Training, Planning a	nd Analysis Features	
HR zones	\checkmark	\checkmark
HR alerts	\checkmark	\checkmark
IR calories	\checkmark	\checkmark
6 HR max	\checkmark	\checkmark
6 HRR	\checkmark	\checkmark
Recovery time	\checkmark	\checkmark
Auto max HR	\checkmark	\checkmark
IR Broadcast (broadcasts HR data over NT+™ to paired devices)	yes (using ANT+)	yes (using ANT+)
Respiration rate (during exercise)	\checkmark	\checkmark
GPS speed and distance	\checkmark	\checkmark
Customizable data pages	\checkmark	\checkmark
Customizable activity profiles	\checkmark	\checkmark
Auto Pause®	\checkmark	\checkmark
nterval training	\checkmark	\checkmark
Advanced workouts	\checkmark	\checkmark
Downloadable training plans	\checkmark	\checkmark
Power Modes - customizable in-activity pattery settings	\checkmark	\checkmark
Auto Lap®	\checkmark	\checkmark
Manual lap	\checkmark	\checkmark
Configurable lap alerts	\checkmark	\checkmark
leat and altitude acclimation	\checkmark	\checkmark
/O2 Max (Run)	\checkmark	\checkmark
/O2 Max (Trail Run)	\checkmark	\checkmark
Fraining Status (lets you see if you're raining effectively by tracking your	\checkmark	\checkmark
training history and fitness level trend.) Training Load (your total training load for the last 7 days calculated from estimated	\checkmark	\checkmark
EPOC) Training Effect	\checkmark	\checkmark
Training Effect (anaerobic)	√	\checkmark
Primary benefit (Training Effect labels)	· · · · · · · · · · · · · · · · · · ·	\checkmark
mproved recovery time	\checkmark	\checkmark
Daily suggested workouts	\checkmark	\checkmark
Custom alerts	✓	✓ ✓
Audio prompts	· · · · · · · · · · · · · · · · · · ·	✓
Finish time	v √	✓ ×
-mish time Virtual Partner	v √	✓ ×
Race an Activity	✓	✓ ×
Auto multisport activities	v √	✓ ✓
Auto multisport activities	✓	v
Course guidance	× ./	· · · · · · · · · · · · · · · · · · ·
Fouch and/or button lock	v √	✓ ×
	v √	v √
lot keys	¥	v √
Auto scroll		
Activity history on watch	\checkmark	\checkmark
Physio TrueUp	\checkmark	\checkmark
Running Features		
Available run profiles	Running, Treadmill Running, Indoor Track Running, Trail Running	Running, Treadmill Running, Indoor Track Running, Trail Running
GPS-based distance, time and pace	\checkmark	\checkmark

Running dynamics	yes (with compatible accessory)	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)	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)
Stride length (real time)	yes (with compatible accessory)	yes (with compatible accessory)
Cadence (provides real-time number of steps per minute)	\checkmark	\checkmark
Performance condition (after running 6–20 minutes, compares your real-time condition to your average fitness level)	\checkmark	\checkmark
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)
Run workouts	\checkmark	\checkmark
Race predictor	\checkmark	\checkmark
Foot pod capable	\checkmark	\checkmark
Golfing Features		
Yardage to F/M/B (distance to front, middle and back of green)	\checkmark	\checkmark
Yardage to layups/doglegs	\checkmark	\checkmark
Measures shot distance (calculates exact yardage for shots from anywhere on course)	manual	manual
Digital scorecard	\checkmark	\checkmark
Stat tracking (strokes, putts per round, greens and fairways hit)	\checkmark	\checkmark
Auto CourseView updates	\checkmark	\checkmark
Green View with manual pin position	\checkmark	\checkmark
Hazards and course targets	\checkmark	\checkmark
PinPointer	\checkmark	\checkmark
Round timer/odometer	\checkmark	\checkmark
Automatic club tracking compatible (requires accessory)	\checkmark	\checkmark
Tournament legal	\checkmark	\checkmark

Outdoor Recreation

Available outdoor recreation profiles	Hiking, Climbing, Indoor Climbing, Bouldering, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Fishing, Hunting, Tactical	Hiking, Climbing, Indoor Climbing, Bouldering, Skiing, Snowboarding, XC Skiing, Stand Up Paddleboarding, Rowing, Kayaking, Fishing, Hunting, Tactical
Point-to-point navigation	\checkmark	\checkmark
Bread crumb trail in real time	\checkmark	\checkmark
Back to start	\checkmark	\checkmark
TracBack®	\checkmark	\checkmark
UltraTrac mode	\checkmark	\checkmark
Elevation profile	\checkmark	\checkmark
Distance to destination	\checkmark	\checkmark
Barometric trend indicator with Storm Alert	\checkmark	\checkmark
Trail run auto climb	\checkmark	\checkmark
Vertical speed	\checkmark	\checkmark
Total ascent/descent	\checkmark	\checkmark
Future elevation plot	\checkmark	\checkmark

Compatible with BaseCamp™	\checkmark	\checkmark
GPS coordinates	\checkmark	\checkmark
Sight 'N Go	\checkmark	\checkmark
Area calculation	\checkmark	\checkmark
Projected waypoint	\checkmark	\checkmark
Sun and moon information	\checkmark	\checkmark
XERO [™] Locations	\checkmark	\checkmark
Expedition GPS Activity	\checkmark	\checkmark

Cycling Features

Available cycling profiles	Biking, Road Biking, Mountain Biking, Gravel Biking, Cyclocross, Bike Commuting, Bike Touring, eBiking, eMountain Biking, Indoor Biking	Biking, Road Biking, Mountain Biking, Gravel Biking, Cyclocross, Bike Commuting, Bike Touring, eBiking, eMountain Biking, Indoor Biking
Alerts (triggers alarm when you reach		
goals including time, distance, heart rate or calories)	\checkmark	\checkmark
Courses	\checkmark	\checkmark
MTB Grit & Flow	\checkmark	\checkmark
Bike lap and lap maximum power (with power sensor)	\checkmark	\checkmark
Race an activity	\checkmark	\checkmark
FTP (Functional Threshold Power)	\checkmark	\checkmark
Compatible with Vector™ (power meter)	\checkmark	\checkmark
Power meter compatible	\checkmark	\checkmark
Speed and cadence sensor support (w/sensor)	\checkmark	\checkmark

Swimming Features

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

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	\checkmark	\checkmark