

OYSTER PERPETUAL **SKY-DWELLER**



The Oyster Perpetual SKY-DWELLER presented at BASELWORLD 2012 is the latest addition to the OYSTER collection, a compelling timepiece of revolutionary design that blends to perfection technological sophistication and ease of use.

With 14 patents – five of which are new – the SKY-DWELLER provides, in an unprecedented and highly original way, the information global travellers need to easily keep track of time: a dual time zone, with local time read via centre hands and a reference time display in 24-hour format read via a rotating off-centre disc visible on the dial; a particularly innovative annual calendar named SAROS – in tribute to the astronomical phenomenon which inspired it – that requires only one date adjustment a year, when the month changes from February to March; and a month display by means of 12 discreet apertures around the circumference of the dial.

A majestic expression of the art of watchmaking and the product of Rolex's exceptional technical expertise, the SKY-DWELLER is as intuitive to read as it is simple to use. Local time, reference time and the date are rapidly set using a highly innovative interface between the case and movement. The rotatable RING COMMAND bezel is the focal point of the interface, allowing the wearer to select the individual functions to be set simply by turning the bezel. Each function can then be adjusted swiftly and easily in both directions by means of the winding crown, which has only one setting position.

The SKY-DWELLER is equipped with a new calibre, the 9001, an officially certified Swiss chronometer entirely developed and manufactured by Rolex. The SKY-DWELLER epitomizes the values of precision, robustness and reliability for which Rolex watches are renowned. It bears witness to the creative force of a brand dedicated to its passion for innovation at the service of the wearer.

The SKY-DWELLER is designed for those who place the emphasis on useful functions, effortless manipulation, prestige and elegance above all. Available in 18 ct white, yellow or EVEROSE gold cast by Rolex in its own foundry, this advanced wristwatch features the fluted bezel that symbolizes the codes of the brand. With its stately 42 mm OYSTER case, it is the embodiment of perfect symbiosis between form and function, aesthetics and technology.

With the SKY-DWELLER, Rolex once again demonstrates its wealth of ingenuity by designing and manufacturing a watch that perpetuates the OYSTER's legendary excellence.



DUAL TIME ZONE AND 24-HOUR DISPLAY

The combined display of local time via centre watch hands and reference time via an off-centre disc makes the SKY-DWELLER easy to read and endows it with unique aesthetics.

The Oyster Perpetual SKY-DWELLER features a dual time zone that is as intuitive to read as it is simple to use. The display's highly original design endows the watch with an aesthetic identity all of its own.

Reference time via an off-centre disc

Global travellers can read the reference time – the time at home or at their usual place of work – via a rotating off-centre disc visible on the dial. A fixed inverted red triangle points to the wearer's chosen reference time. The disc's 24-hour display allows travellers to clearly distinguish daytime hours from night-time hours in the reference time zone (for example, 10 p.m. versus 10 a.m.). At any moment and in any location, they know if it is an appropriate time to contact someone on the other side of the world.

Centre hands for local time

Local time at the destination is indicated by the conventional centre hour, minute and seconds hands. It can be set very quickly and easily thanks to a mechanism that allows the hour hand to be adjusted independently in one-hour increments both forwards and backwards, so that changing the local hour does not affect the minute or seconds hands or the reference time.



A fixed inverted red triangle indicates the reference time. The 24-hour display allows the wearer to distinguish daytime from night-time hours.

Date change linked to local time

The date change is linked to local time and occurs within a few milliseconds at midnight. Thus, the date displayed in the aperture is always the current date in the wearer's local time zone.

Thanks to its innovative display and simple operation, the SKY-DWELLER allows the traveller to adjust the watch to different time zones during a journey, while benefitting from a constant, clear display of reference time.



ROLEX

SKY-DWELLER
OYSTER PERPETUAL
SUPERLATIVE CHRONOMETER
OFFICIALLY CERTIFIED

SWISS

MADE

SAROS ANNUAL CALENDAR

A particularly ingenious patented mechanism inspired by an astronomical phenomenon differentiates between 30-day and 31-day months, thanks to just four additional gear wheels.

The Oyster Perpetual SKY-DWELLER is equipped with a revolutionary annual calendar offering unparalleled robustness and reliability for such a complex watchmaking function. This annual calendar's qualities are attributable to an ingenious mechanism named SAROS, patented by Rolex. Its original design was directly inspired by the astronomical phenomenon of the same name.

Only one adjustment per year

This annual calendar automatically differentiates between 30-day and 31-day months. It displays the correct date throughout the year and requires only one adjustment a year – on 1st March, February having only 28 or 29 days.

A system with intelligence

The ingenuity of the SAROS system developed by Rolex lies in its simple and systematic handling of the irregular occurrence of 30 and 31-day months. This intelligent mechanism is based on only two gear ratios and four gear wheels added to the traditional Rolex instantaneous date calendar. Such simplicity ensures peerless robustness and reliability for the annual calendar function.

Planetary and satellite wheels

The Greek term Saros has been used since antiquity to designate an approximately 18-year cycle of alignment patterns between the Sun, the Earth and the Moon that is behind lunar and solar eclipses. This astronomical phenomenon

inspired the design of the SKY-DWELLER's annual calendar mechanism. The SAROS system is designed around a fixed planetary gear wheel (equivalent to the Sun) at the centre of the movement. A satellite wheel (whose centre represents the Earth) engages with the planetary wheel and rotates, orbiting the planetary wheel in one month, driven by the date disc. The satellite wheel is fitted with four fingers (the Moon) for the four 30-day months (April, June, September and November).

Double instantaneous date change

The gear ratio between the satellite wheel and the planetary wheel is calculated in such a way that at the end of each 30-day month – and only in these months – one of the satellite's fingers receives an additional impulse from the date change mechanism. This makes the calendar disc jump two days (from the 30th to the 1st) within a few milliseconds to display the correct date.

Discreet month apertures

The months of the year are indicated in 12 discreet apertures around the circumference of the dial, outside the hour markers: January at 1 o'clock, February at 2 o'clock, and so on. The current month is identified in a contrasting colour.



ROLEX



30

SKY-DWELLER
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RING COMMAND BEZEL

The RING COMMAND bezel can be turned to any one of three positions to choose the function to be set: date, local time or reference time.

The Oyster Perpetual SKY-DWELLER is equipped with a rotatable RING COMMAND bezel that allows the wearer to easily select the watch's different functions via an innovative, patented interface between the movement and case.

Unrestricted setting

The RING COMMAND bezel can be turned to any one of three positions to select the function to be set: date, local time or reference time. The selected function can then be rapidly adjusted in either direction, forwards or backwards, using the winding crown, which has only one setting position. Unlike traditional mechanisms, this interface developed by Rolex allows unrestricted setting.

A simple and intuitive interface

This simple and intuitive interface is based on a complex mechanical module which consists of no fewer than 60 components and demands state-of-the-art watchmaking and micromechanical expertise. The heart of the mechanism is

a double cam and levers that engage various gear trains inside the movement according to the function selected. One of these cams is activated by pulling out the winding crown, the other is driven by rotating the bezel to activate setting wheels located in the middle case of the watch.

An expression of Rolex values

With its innovative interface between the watch case and the movement, the RING COMMAND bezel is the product of Rolex's total mastery of the design and manufacture of all the essential components of the watch. Rolex once again demonstrates core values that have always placed an emphasis on functionality and wearer comfort.

Classic elegance of the fluted bezel

With its iconic Rolex fluting, the SKY-DWELLER is firmly established in the lineage of the models in the OYSTER collection, such as the DATEJUST or the DAY-DATE, which have become symbols of prestige and timeless elegance.



CALIBRE 9001

A certified chronometer, this new high-performance movement entirely developed and manufactured by Rolex consists of 380 components and is backed by seven patents.

The Oyster Perpetual SKY-DWELLER's calibre 9001 is a completely new self-winding mechanical movement, a pure distillation of Rolex technology. Entirely developed and manufactured in-house, with a total of 380 components and backed by seven patents – four of which are new – it is one of the most complex calibres ever developed by the brand.

A selector wheel on the outside edge of the movement ensures the interaction of the movement and the bezel of the watch to set the functions.

Chronometric precision

Calibre 9001 is a certified Swiss chronometer, a designation reserved for high-precision watches that have successfully passed the Swiss Official Chronometer Testing Institute (COSC) tests. The oscillator has a blue PARACHROM hairspring patented and manufactured by Rolex in an exclusive paramagnetic alloy.

Singular reliability

The architecture behind the 9001, like that of all PERPETUAL movements at Rolex, makes it singularly reliable. The oscillator is fitted between high-performance PARAFLEX shock absorbers, developed and patented by Rolex, that offer 50 per cent greater resistance to shocks. It is held firmly in place by a height-adjustable traversing bridge. The SAROS annual calendar and the RING COMMAND setting system are also designed to be exceptionally robust.

Self-winding by PERPETUAL rotor

Calibre 9001 is fitted with a self-winding mechanism featuring Rolex's PERPETUAL rotor which ensures continuous winding of the mainspring by harnessing movements of the wrist to provide a constant source of energy.

CALIBRE

9001, *Manufacture Rolex*

Mechanical movement with bidirectional self-winding via PERPETUAL rotor on ball bearing

PRECISION

Officially certified Swiss chronometer (COSC)

FUNCTIONS

Centre hour, minute and seconds hands

24-hour display on off-centre disc

Second time zone via independent rapid-setting of the hour hand

Instantaneous annual calendar at 3 o'clock with SAROS system and unrestricted bidirectional rapid-setting of the date

Month display via 12 apertures around the circumference of the dial

Stop-seconds for precise time setting

OSCILLATOR

Frequency: 28,800 beats/hour (4 Hz)

Paramagnetic blue PARACHROM hairspring

Breguet overcoil

Large balance wheel with variable inertia

High-precision regulating via four gold MICROSTELLA nuts

Traversing balance bridge

High-performance PARAFLEX shock absorbers

JEWELLING

40 rubies

POWER RESERVE

Approximately 72 hours



REFERENCE (CASE – BRACELET): 326939 – 72419

CASE

Type

OYSTER (monobloc middle case, screw-down case back and winding crown)

Diameter

42 mm

Material

18 ct white gold, polished finish

Case back

Screw-down with Rolex fluting

Bezel

Fluted, bidirectional rotatable RING COMMAND

Winding crown

Screw-down, TWINLOCK double waterproofness system

Crystal

Scratch-resistant synthetic sapphire
CYCLOPS lens (2.5×) over the date,
double anti-reflective coating

Waterproofness

100 metres (330 feet)

DIAL

Colour

Ivory, satin finish

Hour markers

Roman numeral appliques in 18 ct white gold

Hands

18 ct white gold with phosphorescent material

BRACELET

Type

OYSTER, three-piece solid links

Material

18 ct white gold, polished centre links and satin-finished
outer links with polished edges

Clasp

Folding OYSTERCLASP

EASYLINK 5 mm comfort extension link



REFERENCE (CASE – BRACELET): 326938 – 72418

CASE

Type

OYSTER (monobloc middle case, screw-down case back and winding crown)

Diameter

42 mm

Material

18 ct yellow gold, polished finish

Case back

Screw-down with Rolex fluting

Bezel

Fluted, bidirectional rotatable RING COMMAND

Winding crown

Screw-down, TWINLOCK double waterproofness system

Crystal

Scratch-resistant synthetic sapphire

CYCLOPS lens (2.5×) over the date, double anti-reflective coating

Waterproofness

100 metres (330 feet)

DIAL

Colour

Champagne, sunray finish

Hour markers

Arabic numeral appliques in 18 ct yellow gold

Hands

18 ct yellow gold with phosphorescent material

BRACELET

Type

OYSTER, three-piece solid links

Material

18 ct yellow gold, polished centre links and satin-finished outer links with polished edges

Clasp

Folding OYSTERCLASP

EASYLINK 5 mm comfort extension link



OYSTER PERPETUAL SKY-DWELLER

REFERENCE (CASE – STRAP): 326935 – BROWN ALLIGATOR LEATHER

CASE

Type

OYSTER (monobloc middle case, screw-down case back and winding crown)

Diameter

42 mm

Material

18 ct EVEROSE gold, polished finish

Case back

Screw-down with Rolex fluting

Bezel

Fluted, bidirectional rotatable RING COMMAND

Winding crown

Screw-down, TWINLOCK double waterproofness system

Crystal

Scratch-resistant synthetic sapphire

CYCLOPS lens (2.5x) over the date, double anti-reflective coating

Waterproofness

100 metres (330 feet)

DIAL

Colour

Chocolate, sunray finish

Hour markers

Arabic numeral appliques in 18 ct pink gold

Hands

18 ct pink gold with phosphorescent material

STRAP

Material

Brown *Alligator mississippiensis* leather

Clasp

Folding OYSTERCLASP in 18 ct EVEROSE gold



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