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THE LEXUS UX 250h

The UX presents Lexus's innovative luxury and safety in a package that combines bold new designs and an ultra-efficient new powertrain. For many customers, this will not only be their first Lexus, but also their first luxury vehicle.

It is designed for modern urban motorists who seek a fresh, contemporary and dynamic take on luxury driving, something that is not just new and exciting, but also relevant to their lifestyles.

Infused with dynamic attitude, the UX is engineered to deliver quick and engaging driving with a Lexus-smooth demeanour, making it a unique entry in the luxury compact SUV market.

The UX is the first Lexus to be constructed using the new Global Architecture – Compact (GA-C) platform. A lightweight yet super-rigid structure, extremely low centre of gravity and refined suspension tuning endow it with exemplary handling agility and ride comfort, and a distinctive driving character.

In the UK, the UX is offered with a fourth generation self-charging hybrid powertrain or the option of full battery electric power in the UX 300e (details provided in a separate press kit).

EXTERIOR DESIGN AND AERODYNAMICS

Lexus designers created an overall design theme for the UX that combines strength with refinement and is stylish yet functional.

The treatment of the spindle grille – a signature feature of all Lexus models – is unique to the UX, featuring a mesh pattern with individual elements that gradually change in shape as they radiate out from the central Lexus emblem. The result is an intriguing three-dimensional look that appears to change with the viewing angle.

The headlamp design gives the UX a determined and confident look. The daytime running lights are arranged in an arrowhead shape above the headlamp units, emphasising the Lexus 'L' lighting signature. The headlights themselves are single-projector dual-beam LEDs (UX and F Sport grades) or ultra-small triple-projector LED units (Takumi grade, Tech & Safety Pack).

The vehicle's basic form flows out from the lines of the spindle grille to envelop the cabin. Crisp, prominent, sculpted surfaces and dramatically flared front and rear wings express

strength, while the car's aerodynamic profile, large wheels pushed out to the corners and a strong front fascia generate an agile stance.

The wheel arch mouldings, which protect the bodywork from gravel thrown up by the tyres, manage the airflow over their edges to reduce turbulence and lift, contributing to the vehicle's stability. On F Sport and Takumi versions, these are matched to the car's body colour.

The rear combination lamps play a role in this as well. The aero stabilising blade lights run from the top of the rear wings and span the width of the vehicle. By guiding airflow around the rear, they help reduce turbulence and lift, aiding vehicle stability when cornering and driving in crosswinds.

Their design creates a distinctive night-time signature, formed by an array of 120 LEDs which tapers towards the centre of the tailgate, measuring just 3mm deep at its narrowest point. A wing-type spoiler at the rear edge of the roof and a flat underbody contribute to vehicle quietness and fuel efficiency.

Takumi skilled modellers worked with the design and engineering teams to refine all the exterior surfaces, to hundredth-of-a-millimetre tolerance, pushing the boundaries of what could be produced in the body panel-stamping presses.

The five-spoke 17-inch alloy wheels on the entry-level UX model have an aero-ventilating design with Gurney flaps along the edges of the spokes to reduce wind resistance and channel airflow to cool the brakes. The design pulls air from the inside of the wheel, while the airflow over the outer side is regulated to follow the wheel surface. The UX is also available with (non-aero) 18-inch wheels, with different designs for the F Sport and Takumi models.

INTERIOR DESIGN: A NEW KIND OF LEXUS LUXURY

Lexus designed the UX's cabin to evoke the feel of a dynamic, luxury saloon, but with the higher seating position and versatility that are hallmarks of an SUV. The materials and finish are pure Lexus, combining Japanese traditions in craftsmanship and hospitality with innovative production techniques.

The interior also conveys a sense of security. For example, the form of the door shoulders evokes a robust frame under the skin.

The designers have created a feeling of seamless continuity inside the UX, inspired by *engawa*, a traditional Japanese architecture concept that blurs the boundary between the inside and outside of a home. From the driver's seat, the upper section of the instrument panel appears to extend out beyond the windscreen into the wings. This gives the driver an excellent field of vision and clear sense of the vehicle's dimensions and position on the road. Viewed from outside, the bonnet appears to be connected directly to the instrument panel through the windscreen.

Getting in and out of the vehicle has been made easier by precise location of the hip points and shaping of the seat-cushions. The human-centred design approach is evident in the low, unobtrusive design of the instrument panel and slim front pillar mouldings, shaped to improve visibility. Even though there is a higher seating position than in a standard passenger car, a reduction in the distance between the hip and heel points gives the UX driver a feeling of being closer to the road than in a conventional SUV.

The doors are a driver's first point of contact with any vehicle. Going into the finest detail in their pursuit of luxury, Lexus acoustic engineers worked with neural scientists to create the best possible door-closing sound. Using research into the brain waves created when a luxury car door closes, the team selected specific materials and adjusted the shape of the door by tenths of a millimetre to produce just the right satisfying and reassuring tone.

Every UX that comes off the production line at Lexus's Kyushu plant is inspected by *takumi* craftspeople in a dedicated quiet room before leaving the factory, to identify and if necessary, correct any inconsistency in the door-closing sound.

The UX delivers a quiet drive, thanks to its high-strength structure and optimal location of sound-absorbing and insulating materials throughout the body. Engineers traced noises to their sources to keep them out of the cabin and even the sound of water thrown up by the tyres was reduced.

'SEAT-IN-CONTROL' CONCEPT

The 'Seat in Control' concept makes the driver feel more in touch with the road and engaged in the drive. Principal vehicle functions are grouped around the driver's side of the cabin and the shape of the driver's seatback is designed so that the controls can be operated with the driver maintaining a comfortable and natural posture.

The front seats are six-way manually adjustable in the UX model, and eight-way power-adjustable in the F Sport and Takumi, the latter with additional adjustable lumbar support for

the driver. The springs and foam in the cushions are specially designed to gently envelop the occupant and disperse pressure under the sciatic area.

Luxury extends throughout the cabin. For example, the three-spoke steering wheel and analogue clock are from the Lexus LS flagship saloon. The Lexus Climate Concierge automatically links heating and cooling airflow with the heated and (on Takumi grade) ventilated front seats to ensure a comfortable cabin temperature. Using new nanoe X air purification technology inhibits airborne viruses, bacteria and allergens and has a moisturising effect on human hair and skin.

Attention to detail can be witnessed in a headlining design which eliminates distracting shadows from the top of the windscreen, and switches and controls that have a reassuringly 'Lexus' feel.

LUXURIOUS FINISHES

Ever since the brand was founded, Lexus has drawn on Japanese traditions in craftsmanship and hospitality to infuse its vehicles with a special sense of contemporary luxury. It has adapted this approach in the new UX to generate a special appeal to younger customers experiencing their first luxury vehicle.

Lexus interviewed premium car owners in different parts of the world, including Europe, to better understand their expectations in terms of design and to find out more about their lifestyles. The findings were consistent and inspiring, providing a fresh perspective on what luxury means and helping define the appearance and quality of the UX's interior. The result is an uncluttered, 'less is more' approach that makes the UX feel more inviting and accessible.

A vehicle interior is composed of many different parts, such as the instrument panel, seats and trims, but it is the effect of the sum of these parts that matters most. One example is a leather upholstery finish (Takumi grade) with stitching inspired by the Japanese *sashiko* technique used for making judo and kendo uniforms. It is combined with a pattern of perforations on the lower part of the seat derived from perfectly aligned mathematical curves and gradations.

The interior colour combinations evoke different moods and accentuate the premium design. UX grade features Black premium fabric upholstery while Tahara synthetic leather is included in the F Sport Design specification in Black, Hazel or White Ash. It is also available as an option with the UX Premium Plus Pack. The Takumi grade introduces smooth leather in Black, Hazel, White Ash and Rich Cream. Smooth leather can also be specified for the F Sport in Black, F White or Flare Red.

The instrument panel has black inlays with a grain finish inspired by the appearance of the *washi* paper familiar from the traditional screens found in Japanese homes, in Black or Noble Brown. In the F Sport the black instrument panel has red contrast stitching.

INTUITIVE CONTROLS AND CLEAR DISPLAYS

The instrument panel is designed to make technology intuitive to use. The meters are presented in a seven-inch display that digitally renders realistic, analogue gauges with a three-dimensional effect.

A head-up display, standard on the UX Takumi, adds to the high-tech feel, projecting key information in colour onto a virtual screen 2.5 metres in front of the driver. This makes it easier to focus on both the display, and the road ahead. High contrast levels make it easy to read in daylight or when driving in snow.

IMAGINATIVE TECHNOLOGY

Lexus designers have created a refined cabin atmosphere with subtle, integrated LED lighting. White LEDs illuminate the front footwells, glovebox, and console switches and are featured in the dome light, map lights and cargo area light.

The air vents have a single-knob control for both airflow direction and volume. By combining the two functions in a single control, the vents could be made larger, improving airflow while reducing noise.

On the UX Takumi, the vents are illuminated by a distinctive LED light source. This is wirelessly powered by the electromagnetic resonance of two adjacent coils vibrating at the same frequency. Using the same design principle as the Lexus LC's rear combination lamps, the vent control LEDs use mirror optics to create the effect of floating lighting depth, even though the light element is just 3mm thick.

VERSATILITY THROUGH THOUGHTFUL PACKAGING

The UX package makes urban exploring easier. A 2,640mm wheelbase contributes to a smooth, stable ride and cabin roominess. The 4,495mm length and best-in-segment 5.2m kerb-to-kerb turning radius help make it easy to manoeuvre and park.

Several design measures make getting in and out of the car easier, including optimal placing of the hip-point, a cut-off profile for the rocker panel below the doors and the shape of the seat cushions. For interior storage, the UX has the largest console box in its class.

A power-operated tailgate is standard on the UX F Sport and Takumi. Roof rails are provided on all versions apart from the entry level UX, allowing for the installation of a variety of accessory carriers.

Depending on model configuration, tyres and markets, the UX is equipped with a tyre repair kit or run-flat tyres. The second generation run-flat tyres are quieter and more comfortable and they allow the vehicle to be driven with a flat tyre at speeds up to 50mph, for up to 99 miles.

LEXUS LINK MULTIMEDIA SYSTEMS

The 2023 UX 250h introduces Lexus's new multimedia systems, giving faster response, more intuitive, human-centred operation and increased functionality.

According to equipment grade, models are fitted with either eight or 12.3-inch displays, with touchscreen technology replacing the previous trackpad control. The new displays have been moved forward on the instrument panel, bringing them closer to the driver for comfortable operation. They present crisper graphics – in high definition on the 12.3-inch screen. Significantly increased computing power means command responses are quicker, while “always connected” cloud-based navigation is provided as standard, giving access to real time road and traffic information for easier journey planning. The 12.3-inch system has embedded navigation, so operation is available in areas where cloud connection is not available.

The system's new voice recognition system includes the option of using the “Hey Lexus” on-board assistant. This makes for easier use of voice commands to make phone calls, operate the audio and climate control and search the net. It can link to cloud-based information, so, for example, it can be asked about nearby fuel prices and other local information. It is programmed to understand more conversational terms and is better able to recognise commands when there is background noise – the audio doesn't have to be muted and the microphones can recognise whether it is the driver or front passenger speaking.

Smartphone integration via Apple CarPlay (wireless connection) or Android Auto (wired connection) is provided as standard and, for complete convenience, updates to the multimedia system software can be delivered over-the-air using the car's DCM (data communication module). Connectivity options include a USB-A port in the centre console box for playback of high-resolution sound sources and two USB-C ports for device charging on the console. The multimedia system can save the personal preference profiles of up to three people, customising the multimedia, audio and navigation settings.

A Mark Levinson Premium Surround Sound System – standard on the UX Takumi – uses a 13-speaker array, low-distortion 668W Class D eight-channel amplifier, Quantum Logic Surround Sound and ClariFi™ 2.0 technology to deliver an immersive, concert-like sound experience.

LEXUS LINK REMOTE FUNCTIONS

UX owners can use the Lexus Link smartphone app to lock or unlock the doors or operate the air conditioning system remotely, so that the cabin can be cooled or warmed before they set off on a journey.

A SOLID FOUNDATION TO BUILD ON

Lexus has instilled the UX with handling agility and smooth, quiet ride comfort. Key to achieving this balance is the car's high-strength GA-C global architecture platform. Extensive use of high-tensile steel, body adhesives and laser screw welding results in a highly rigid structure, an essential foundation for achieving dynamic handling and luxurious ride comfort.

Using aluminium for the side doors, wings and bonnet, and composite materials for the tailgate helps give the UX the lowest centre of gravity of any vehicle in its class (594mm). As a result, it delivers a secure, agile feeling normally associated with lower-set hatches. A ring structure around the hatch opening and behind the rear seats increases torsional rigidity to enhance crash performance, improve handling and reduce noise and vibration.

The MacPherson strut front suspension and multilink rear suspension with trailing arms, both mounted on subframes, are tuned to deliver a combination of agility and comfort when driving over well-worn urban streets. Refined details such as the quality of the damper oil, oil seals and friction control in the shock absorbers make a significant and positive impact on ride quality.

An upper strut brace increases the torsional rigidity of the engine bay, while the steering rack bolts directly to the subframe without rubber bushings, giving improved steering feel.

Active Cornering Assist (ACA), a function integrated with Vehicle Stability Control (VSC), helps the vehicle trace the driver's desired line through a turn by applying a degree of brake control on the inside wheels, suppressing any tendency to understeer. As a result, the UX drives through corners with precision while maintaining stability.

SUSPENSION THAT ADAPTS TO YOUR NEEDS

The version of Lexus's Adaptive Variable Suspension (AVS), which debuted on the flagship LC coupe, is optionally available for the UX F Sport in the Tech & Safety Pack. This system

decreases body roll when cornering and enhances ride comfort over bumpy urban streets. AVS uses linear control solenoids to vary the amounts of shock fluid to bypass the shock absorber's piston assembly. Thus, the system can vary suspension damping through 650 levels, making its operation indiscernible to the vehicle occupants.

Based on signal inputs from the steering, yaw rate and linear G sensors, AVS continually adjusts damping force to minimise body roll when cornering, while maintaining optimum tyre contact with the road and ride comfort on all surfaces. Damping force is reduced at low speeds and increased at high speeds. Integrated functions including Roll Posture Control, Anti-pitch Control, Repercussion Control and Roughness Sensing Control adapt AVS performance to all road surfaces and driving dynamics.

The driver can set damping performance using the Drive Select controller. When Eco, Normal or Sport S mode is selected, or when Custom mode is selected with the chassis setting in Normal, the damping force remains unchanged to maintain an optimal balance of ride comfort, steering response and a flat ride.

By selecting Sport S+, or Custom mode with the chassis setting in Sport, the damping force control mode switches to firmer damper settings to provide the most dynamic driving feel.

In addition, using Pre-Collision System Co-operative Control, AVS can instantly increase damping force to limit vehicle pitch and roll when the driving support computer judges that there is a possibility of rapid driver input to avoid a collision. VSC Co-operative Control applies appropriate damping in response to vehicle side-skid and changes in the road surface friction, helping to maintain the effectiveness of the VSC.

SHARP STEERING AND ALLOY WHEEL OPTIONS

An electric power steering system with a compact and highly rigid column assist motor delivers handling with crisp, immediate response to driver inputs and provides excellent steering feel.

An electric tilt and telescopic steering column is available for UX Premium Plus Pack, F Sport and Takumi models. In addition, on Takumi models, ingress and egress are made easier with auto away/auto return controls linked to the driver's seatbelt and the hybrid power switch. Using the switch, the tilt and telescopic motors can move the steering wheel up or down and forward or back through a 40mm range.

Standard 17 x 6.5-inch alloy aero ventilating wheels feature 215/60R17 tyres, while the 18-inch F Sport and Takumi alloy wheels are fitted with 225/50RF18 95V run-flat tyres.

UX 250h: FOURTH GENERATION LEXUS HYBRID DRIVE

The UX 250h is equipped with the fourth generation Lexus self-charging hybrid powertrain, featuring multiple new components, including the 2.0-litre petrol engine, hybrid transaxle, compact battery and power control unit.

With 181bhp/135kW (184 DIN hp) total system output, it combines high fuel efficiency with a very smooth, natural and responsive driving experience.

The UX's 2.0-litre in-line four-cylinder engine achieves class-leading 41 per cent thermal efficiency, thanks to its use of laser-clad intake valve seats with an all-new intake port profile; a high compression ratio (14:1); and D4-S fuel injection combining direct and secondary port injectors to achieve high-speed combustion. VVT-iE intelligent variable valve-timing with an electric actuator on the intake side also improves driveability while reducing emissions.

A continuously variable capacity oil pump and a variable cooling system with an electric water pump contribute to ultra-low internal friction, further optimising engine performance and fuel efficiency. The system also ensures quicker cabin heating on cold days and quicker cool-down when the air conditioner is used.

Exhaust heat recirculation enables quick engine warm-up to reduce emissions, while a fuel filter provides high-efficiency particulate material removal to conform to EURO 6D PN (particulate number) regulations.

The UX's hybrid system couples this new engine with two electric motor/generators in a new generation hybrid transaxle that is more compact, lighter and has less internal friction than previous Lexus hybrid systems. The Power Control Unit (PCU) is more powerful yet is 20 per cent smaller and 10 per cent lighter.

Optimising the level of electric motor assistance and engine rpm produces a linear acceleration feel without the engine running at high revs. Engine speed is synchronised with vehicle speed to create an immediate and continuous acceleration feel.

The transaxle mounts the electric motor/generators (MG1 and MG2) coaxially rather than in-line. The resulting smaller and lighter package reduces frictional losses by 25 per cent. In addition, MG2 is now a higher speed motor, yielding better performance and efficiency. A further benefit to the driver is a lower – and best in segment – kerb to kerb turning radius of 5.2 metres, making the UX easy to manoeuvre.

The Sequential Shiftmatic feature delivers responsive engine braking force in six steps with a shift feel similar to a manual transmission, using steering wheel shift paddles or the S position on the shift lever.

The speed at which the hybrid system can shut off the petrol engine, such as when driving on long downward slopes, has been raised to 71mph.

The compact and lightweight nickel-metal hydride (NiMH) battery and compact cooling system are located below the rear seat, which helps give the vehicle its low centre of gravity.

E-FOUR ALL WHEEL DRIVE

The UX 250h is available with either front-wheel drive or E-Four electric all-wheel drive.

The E-Four all-wheel drive system uses a separate, dedicated high-torque electric motor integrated into the rear differential. Power distribution between the front and rear axles is automatically optimised by the Vehicle Stability Control (VSC) system when accelerating, cornering, or driving on slippery surfaces. E-Four provides stable driving on uphill slopes or snow-covered roads with lower fuel consumption than a conventional all-wheel drive system with a power split device and driveshaft.

E-Four does more than assist traction in slippery conditions: it can also actively improve stability by adjusting rear-wheel power to help correct over or understeer.

KEY QUALITIES OF THE LEXUS SELF-CHARGING HYBRID SYSTEM

The UX 250h is very responsive to drive and, like all Lexus hybrids, it offers better fuel efficiency and lower emissions than other petrol or diesel vehicles in its class. In real-world city driving it can use electric power for a significant proportion of every journey – up to 55 per cent, depending on the driving conditions.

Electric vehicle mode

When cruising or accelerating gently, the front electric motor (and rear motor on all-wheel drive models) can propel the car with electricity supplied by the hybrid battery. In this situation, the vehicle runs almost silently, uses no petrol and produces no harmful tailpipe emissions.

Dynamic yet smooth

At higher speeds the ultra-smooth Atkinson cycle petrol engine cuts in quietly, while still receiving assistance from the electric motor(s) when required. Through the near-perfect distribution of power from these two sources, the UX 250h delivers driving pleasure with low fuel consumption and emissions.

Rapid acceleration

Under full acceleration, power from the electric motor(s) instantaneously supplements the performance of the 2.0-litre petrol engine. Together they deliver a potent surge of torque, providing linear acceleration precisely when it's needed.

Under braking, or when the driver takes their foot off the accelerator, regenerative braking harnesses kinetic energy to produce electricity. This, together with electric power produced during normal driving conditions, is stored in the hybrid battery. The UX 250h does not have to be plugged in to a power source for recharging.

Low cost of ownership

As well as being fun to drive, the UX 250h offers low cost of ownership and high residual value. This is due primarily to Lexus's industry-leading experience in engineering self-charging hybrids and batteries which last as long as the car itself, and the inherently low wear and tear of the hybrid system.

Reduced servicing costs

The UX 250h has no clutch and the starter motor and alternator are integral to the hybrid system, so need no servicing or replacement over the lifetime of the vehicle. The conventional timing belt has been replaced by a maintenance-free timing chain. With no need to service or replace these parts, owners can save more than £1,000 over five years.

Hybrid battery life equal to that of the car

Lexus hybrid batteries have a proven reliability record, established through more than 35 billion miles of driving worldwide, and are designed to last the lifetime of the car. Rigorously engineered for performance and durability, they are covered by a five-year/60,000-mile warranty. UK customers taking advantage of a Hybrid Health Check at their Lexus centre can benefit from an additional year's warranty, up to 15 years.

Reduced tyre and brake wear

Because the regenerative braking delivers the first half of all braking force, brake pad and disc wear are significantly reduced. Over the course of 60,000 miles, a Lexus hybrid will usually require just one set of replacement pads and no new discs. The higher tyre pressures used by hybrid vehicles helps lessen tyre shoulder wear, while linear power delivery and balanced weight distribution further help reduce wear.

Up to 10 years/100,000 miles warranty

In common with every new Lexus, the UX 250h is eligible for Lexus warranty protection for up to 10 years or 100,000 miles (whichever comes first). This comprises an initial three-year manufacturer warranty, followed by up to a further seven years of service-activated warranty.

For the first three years of the car's life, owners can have it serviced at a place of their choice. When the new car warranty period expires, they can then benefit from an additional 12 months (or 10,000 miles) warranty when their vehicle has a qualifying service at an authorised Lexus workshop. The warranty is provided at no extra cost, up to a limit of 10 years/100,000 miles. Terms and conditions apply; full details are available at www.lexus.co.uk.

LEXUS DRIVE MODE SELECT

The UX 250h is equipped with Lexus Drive Mode Select, which allows the driver to tailor the driving experience by selecting from three different drive modes.

Normal mode provides an optimal balance between driving performance and fuel efficiency; Eco mode maximises fuel savings across all driving conditions by smoothing the throttle response, and by moderating air conditioning operation; Sport mode delivers quicker throttle response and increased power steering feel.

In F Sport models equipped with AVS, five different driving modes are available: normal, Eco, Sport S, Sport S+, and custom.

Sport S+ further enhances the car's handling and stability when cornering. When Sport S+ or Custom mode are selected with the chassis in Sport setting, the damping force control mode switches to firmer shock absorber settings to provide a more dynamic driving feel.

Custom mode lets the driver choose their preferred combination of modes for the powertrain, chassis and air conditioning functions.

SAFETY TECHNOLOGY AND DRIVER ASSISTANCE

The second generation Lexus Safety System+ is fitted as standard, a suite of active safety technologies that support the driver and reduce the risk and severity of a range of potential accidents. It includes Dynamic Radar Cruise Control, Pre-Collision System (PCS) with pedestrian detection, Lane Keep Assist with Lane Departure Alert and Steering Assist, Lane

Trace Assist, Road Sign Assist (RSA), and Intelligent High-Beam headlamps/Automatic High Beam (AHB) or Adaptive High-beam System (AHS).

The Pre-Collision System works with the Dynamic Radar Cruise Control, operating at speeds relative to a vehicle ahead of between seven and 110mph. The cruise control system also works with the Road Sign Assist so that vehicle speed can be promptly adjusted in line with the speed limit for the road being driven.

The PCS uses camera-based detection to recognise pedestrians in night-time driving, and its radar capability has been extended to enable detection of cyclists during daylight.

The UX is capable of low-speed following, including in stop-go traffic, up to speeds of about 18mph. Thus, the UX driver enjoys more relaxed driving in situations that can be stressful and tiring, while also gaining a measure of safety.

Lane Trace Assist uses the electric power steering motor to help the driver keep the vehicle centred in its lane. Lane Departure Alert detects not only white traffic lines, but also the sides of the road.

Automatic High Beam dips the headlights if it detects the headlights of an oncoming vehicle, or tail-lights of traffic ahead, and returns to main beam as soon as the road ahead is clear. On UX models equipped with triple LED headlights (standard on Takumi grade), the Adaptive High-beam system is used. This automatically operates 11 independent LED chips in the headlamp to give precise control of the field of illumination, to maximise night-time visibility without dazzling other traffic.

Other safety systems include Rear Cross Traffic Alert (standard on Takumi grade) which can detect vehicles crossing from either side, and static vehicles ahead or behind when parking, covering a wider range of scenarios than clearance sonars and other rear cross traffic systems. Real-time images from a digital camera are presented on the car's centre display and the warning beeps are used to alert the driver to potential risks.

Connected to this, a Parking Support Brake system adds active drive force (throttle) and braking control to the audible and visual warnings to reduce the possibility of contact with moving objects ahead or behind the UX when parking.

UX models are all equipped with eight airbags: driver and front passenger airbags; driver and front passenger knee airbags; driver and front passenger seat-mounted side impact airbags and front to rear side curtain airbags.

UX F SPORT

The F Sport specification includes an exclusive grille design featuring a mesh pattern created by individual L-shaped pieces. The front bumper features large fog lamp bezels with L-shaped chrome mouldings and the same mesh pattern as the grille. The wheel arch mouldings are matched to the car's body colour. An F Sport rear bumper and jet-black trim on the front and rear mouldings complete the look.

Of the range of 12 exterior colours for the UX, F Sport White, Blazing Carnelian and Azure Blue, are exclusive to the F Sport grade.

Exclusive interior features include front sports seats upholstered in smooth leather. These have eight-way power-adjustment, integrated heaters and power-adjustable headrests.

The instrument display features a movable meter ring, which originated in the Lexus LFA supercar and is also featured in the LC coupe. This allows the driver to change the content displayed with ease. Pushing a switch on the steering wheel moves the ring to the right and enlarges the multi-information display.

A leather-covered F Sport steering wheel, leather-trimmed shift knob, aluminium footrest and aluminium pedals are also part of the package, together with a power back door, smart keyless entry, wireless charger, Blind Spot Monitor and Rear Cross Traffic Alert with auto-braking.

The 2023 UX F Sport is equipped with a specially tailored version of the high-response Adaptive Variable Suspension (AVS) system that debuted on the Lexus LC and LS flagship coupe and saloon models. This increases damping force to minimise roll when cornering or changing lanes and reduces damping force in straight line driving to preserve ride quality.

Exclusive F Sport suspension tuning includes specific springs and anti-roll bars, plus rear performance dampers for a more refined ride. The 18-inch, five twin-spoke aluminium alloy wheels, unique to the F Sport, are even more rigid than the standard UX wheels, contributing to responsiveness and handling agility.

Active Sound Control (ASC) generates the aural effect of up and down-shifts like those of a geared automatic transmission. An additional Sonic Interaction Design (SID) function adjusts the sound the vehicle makes when driving in Sport S+ mode (S+ Sound).

UK MODEL RANGE

The UX is available in the UK in three core equipment grades: UX, F Sport and Takumi, plus the F Sport Design model.

The **UX** grade features Lexus Safety System+, 17-inch alloy wheels, six-speaker audio system with AM/FM and DAB reception, bi-LED headlights, dual-zone automatic air conditioning, auto-dimming rear-view mirror and premium fabric seat upholstery.

Key features for the **F Sport** include F Sport interior and exterior styling features, including F Sport 18-inch alloy wheels, side sills, black mesh front spindle grille, body-colour wheel arch trims and black door mirror housings. In the cabin there are F Sport front seats with fabric and Tahara upholstery and F Sport pedals and steering wheel. The specification also includes rear privacy glass, LED cornering lights, F Sport tuned suspension with rear performance dampers, Active Sound Control, heated front seats with eight-way power adjustment, front and rear parking sensors with Intelligent Clearance Sonar and an auto-dimming rear-view mirror.

The **Takumi**, named in celebration of Lexus's skilled *takumi* craftsmen, offers smooth leather upholstery, *washi* paper-grain trim inlays, integrated front seat heating and ventilation, a bespoke Mark Levinson 13-speaker Premium Surround Sound system, 10.3-inch Lexus Navigation and multimedia display, 360-degree Panoramic View Monitor, colour head-up display, sunroof, power tailgate, three-eye LED headlights with Adaptive High-beam System, auto-folding function for the door mirrors, smart entry system, 18-inch alloy wheels, body-colour wheel arch trims, Blind Spot Monitor and Rear Cross Traffic Alert with auto-braking function, power-adjustable steering wheel, and a memory setting for the driver's seat steering wheel and door mirror.

F Sport Design grade

The F Sport Design grade was added to UX 250h range for the 2023 model year, making powerful F Sport exterior styling accessible to more customers.

Its road presence is enhanced with the F Sport spindle grille, featuring a Lexus L-motif mesh pattern, finished in black with a chrome surround for the lower section that accentuates the car's planted stance. The same pattern is featured in the enlarged bezels housing the fog lights and cornering lights in the F Sport front bumper, with contrasting chrome L-shaped surrounds. The rear bumper also has an F Sport-specific design, with jet black roof spoiler and moulding details around the light clusters. The 18-inch F Sport alloy wheels have a 10-spoke design and a dark metallic finish.

Other F Sport Design standard specification details include Tahara synthetic leather seat upholstery, heated front seats, dual-zone automatic air conditioning with Lexus's nanoe X air quality system, reversing camera, automatic wipers, LED headlights with Automatic High Beam, chrome roof rails, black wheel arch mouldings and Lexus "F" badging. The model is offered in front-wheel drive form only.

OPTION PACKS

A range of option packs is available giving customers the chance to develop their UX's specifications to suit their personal preferences. The **Premium Pack** (UX grade) provides 17-inch dark alloy wheels, rear privacy glass, front and rear parking sensors, heated front seats, heated steering wheel, chrome roof rails, rain-sensing wipers, LED front fog lights and a reversing camera with back guidelines.

Taking luxury specification to an even higher level, the **Premium Plus Pack** (UX grade option) adds 18-inch alloy wheels with run-flat tyres, Lexus Link Pro multimedia system with 12.3-inch touchscreen, wireless charger, eight-way power adjustable front seats, two-way driver's seat power lumbar adjustment, power steering wheel adjustment, LED cornering lights, smart entry, power tailgate, illuminated entry system, Blind Spot Monitor and Rear Cross Traffic Alert with auto brake. Customers can also specify an optional sunroof with the Premium Plus Pack.

For the F Sport, the **Takumi Pack** upgrade includes all the content of the Premium Plus a Pack, together with a colour head-up display, three-eye LED headlights with Adaptive High-beam System, sunroof, Mark Levinson sound system, Panoramic View Monitor, driver's seat and steering wheel memory settings and smart card key.

UX TIMELINE AND SALES

2018	March	Lexus UX world debut at the Geneva motor show.
	July	Dynamic world debut at the Goodwood Festival of Speed
	October	UK range and prices announced.
2019	March	Start of UK sales.
2020	January	Lexus announces the UX 300e, its first battery electric vehicle.
	March	Minor UX upgrades for 2020 model year.
	December	UX Premium Sport Edition added to UK range.
2021	January	Start of UX 300e UK sales.

2022	October	UX revised with new Lexus multimedia system, improved safety systems and introduction of new F Sport Design model.
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Sales in UK markets in 2022: 3,178

Total UK sales since launch (2019): 15,173

UX 250h TECHNICAL SPECIFICATIONS

ENGINE		
Engine type	4 cylinders in-line	
Valve mechanism	16-valve DOHC, VVT-iE (intake)/VVT-i (exhaust)	
Displacement (cc)	1,987	
Bore x stroke (mm)	80.5 x 97.6	
Compression ratio	14.0:1	
Total system output (bhp/DIN hp/kW)	181/184/135	
Max. engine power (bhp/DIN hp/kW @ rpm)	150/152/112 @ 6,000	
Max. engine torque (Nm @ rpm)	190 @ 4,400 – 5,200	
HYBRID SYSTEM		
Electric motor – front		
Type	Permanent magnet, synchronous motor	
Max. voltage	650	
Max. power (bhp/kW)	107/80	
Max. torque (Nm)	202	
Electric motor – rear (E-Four models)		
Type	Induction motor	
Max. voltage	216	
Max. power (bhp/kW)	7.1/5.3	
Max. torque (Nm)	55	
Hybrid battery		
Type	Nickel-metal hydride	
Nominal voltage	216	
Number of cells	180	
Capacity (V amp/hr)	6.5	
TRANSMISSION		
	FWD	E-FOUR
Type	E-CVT	
Motor reduction gear	3.062	
Differential Gear Ratio (front/rear)	3.605/ -	3.605/10.487
PERFORMANCE		
	FWD	E-FOUR
0-62mph (sec)	8.5	8.7
Max. speed (mph)	110	
DIMENSIONS		
Overall length (mm)	4,495	
Overall width – excluding mirrors (mm)	1,840	
Overall width – including mirrors (mm)	2,080	
Overall height (mm)	1,520 (17in wheels) 1,540 (18in wheels)	
Wheelbase (mm)	2,640	
Track front (mm)	1,560 (17in wheels) 1,550 (18in wheels)	
Track rear (mm)	1,560 (17in wheels) 1,550 (18in wheels)	
Overhang front (mm)	970	
Overhang rear (mm)	885	
Coefficient of Drag (Cd)	0.33	
Fuel tank capacity (litres)	43	

INTERIOR DIMENSIONS		FWD	E-FOUR
Interior length (mm)		1,830	
Interior width (mm)		1,518	
Interior height (mm)		1,171 1,146 (with sunroof)	
Luggage capacity (litres) All figures include tray compartment in loadspace	Rear seats up, loaded to tonneau cover	320	283
	Rear seats up, loaded to roof	438	401
	Rear sets folded, loaded to roof	1,231	1,194
WEIGHTS (kg)		FWD	E-FOUR
Kerb weight		1,540 – 1,620	1,600 – 1,680
Gross vehicle weight		2,110	
Towing capacity – braked*		750	
Towing capacity – unbraked*		750	
FUEL CONSUMPTION (WLTP)		FWD	E-FOUR
Combined (mpg)		50.4 – 53.2	47.0 – 47.0
Fuel tank capacity (litres)		43	
EMISSIONS (WLTP), INSURANCE, SERVICING & WARRANTY		FWD	E-FOUR
CO ₂ emissions - combined (g/km)		120-128	135-137
Insurance groups		22E – 26E	
Service intervals		10,000 miles/annually	
Comprehensive new vehicle warranty		3 years/60,000 miles	
Hybrid warranty		5 years/60,000 miles (whichever comes first)	
Corrosion/perforation warranty		12 years/unlimited mileage	
Surface rust/paintwork		3 years/unlimited mileage	
SUSPENSION			
Front		MacPherson strut	
Rear		Trailing arm, double wishbones	
BRAKES			
Front (diameter x thickness, mm)		Ventilated discs 305 x 28	
Rear (diameter x thickness, mm)		Solid discs 281 x 12	
STEERING			
Type		Rack and pinion, electric power steering	
Turns lock-to-lock		2.76	
Min. turning radius (m)	Tyre	5.2	
	Body	5.6	
WHEELS & TYRES			
Wheel and tyre size		17in, 215/60R17 18in, 225/50R18	

* towing n/a for entry level UX model.

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LEXUS UX 250h EQUIPMENT SPECIFICATIONS

SAFETY & DRIVER ASSISTANCE	UX	F SPORT DESIGN	F SPORT	TAKUMI
Lexus Safety System+ with Pre-Collision System, Dynamic Radar Cruise Control, Lane Centre Assist, Lane Trace Assist, Road Sign Assist & Automatic High Beam/Adaptive High-beam System	✓ (with Automatic High Beam System)	✓ (with Automatic High Beam System)	✓ (with Automatic High Beam System)	✓ (with Adaptive High-beam System)
Adaptive High-beam System (replacing AHB)	✗	✗	Opt ³	✓
Driver & front passenger airbags	✓	✓	✓	✓
Driver & front passenger side airbags	✓	✓	✓	✓
Driver & front passenger knee airbags	✓	✓	✓	✓
Curtain Shield airbags front and rear	✓	✓	✓	✓
Front passenger airbag cut-off switch	✓	✓	✓	✓
ABS	✓	✓	✓	✓
Electronic Brakeforce Distribution (EBD) with Brake Assist System (BAS)	✓	✓	✓	✓
Secondary collision brake (SCB)	✓	✓	✓	✓
Vehicle Stability Control (VSC)	✓	✓	✓	✓
Traction Control (TRC)	✓	✓	✓	✓
Vehicle Dynamics Integrated Management	✓	✓	✓	✓
Hill Start Assist Control (HAC)	✓	✓	✓	✓
Blind Spot Monitor and Rear Cross Traffic Alert with auto brake	Opt with opt pack ¹ Opt pack ²	✓	✓	✓
Tyre Pressure Warning System	✓	✓	✓	✓
Electronic front seatbelt pretensioners with force limiters	✓	✓	✓	✓
Emergency brake signal	✓	✓	✓	✓
Seatbelt warning system	✓	✓	✓	✓
ISOFIX child seat anchor points on outer rear seats	✓	✓	✓	✓
Adaptive Variable Suspension	✗	✗	✓	✗
Sports suspension with rear performance dampers	✗	✗	✓	✗
Speed-sensitive electric power steering	✓	✓	✓	✓
E-Four all-wheel drive	Opt pack ²	✗	Opt	Opt
Electronic parking brake	✓	✓	✓	✓
eCall	✓	✓	✓	✓
INSTRUMENTS & CONTROLS	UX	F SPORT DESIGN	F SPORT	TAKUMI
Drive Mode Select – 3 modes	✓	✓	✗	✓
Drive Mode Select – 5 modes	✗	✗	✓	✗
Active Sound Control	✗	✗	✓	✗
Head-up display	✗	✗	Opt Pack ³	✓
AUDIO, NAVIGATION & INFORMATION	UX	F SPORT DESIGN	F SPORT	TAKUMI
6-speaker audio with AM/FM and DAB	✓	✓	✗	✗

10-speaker audio with AM/FM and DAB	Opt pack ²	✗	✓	✗
Lexus Link Connect with 8in touchscreen	✓	✓	✗	✗
Lexus Link Pro with 12.3in touchscreen	Opt ²	✗	✓	✓
13-speaker Mark Levinson Sound system	✗	✗	Opt Pack ³	✓
Apple CarPlay (wireless) and Android Auto (wired) smartphone integration	✓	✓	✓	✓
Lexus Link connected services	✓	✓	✓	✓
2x USB-C ports in front console tray	✓	✓	✓	✓
2x USB-C ports in rear console	✓	✓	✓	✓
1x USB-A port in front console box	✓	✓	✓	✓
Bluetooth	✓	✓	✓	✓
COMFORT & CONVENIENCE	UX	F SPORT DESIGN	F SPORT	TAKUMI
Dual-zone climate control with humidity sensor	✓	✓	✓	✓
Rear cabin air vents	✓	✓	✓	✓
Power windows with anti-jam protection	✓	✓	✓	✓
Rain-sensing wipers	Opt Pack ^{1,2}	✓	✓	✓
Smart keyless entry	Opt Pack ²	✗	Opt Pack ^{3,5}	✓
Push-button start	✓	✓	✓	✓
Front and rear parking sensors with Intelligent Clearance Sonar	Opt Pack ^{1,2}	✓	Opt Pack ^{5,7,9}	✓
Reversing camera	Opt Pack ^{1,2}	✓	✓	✓
Wireless smartphone charger	Opt Pack ²	✗	✓	✓
360-degree Panoramic View Monitor	✗	✗	Opt Pack ³	✓
Adjustable turn indicator flash sequence	✓	✓	✓	✓
LED interior lighting	✓	✓	✓	✓
Auto-dimming rear-view mirror	✓	✓	✓	✓
Power-adjustable steering wheel	Opt Pack ²	✗	✓	✓
F Sport steering wheel with paddle shifts	✗	✗	✓	✗
Heated steering wheel	Opt Pack ^{1,2}	✓	✓	✓
12v accessory socket in centre console	✓	✓	✓	✓
4x tie-down hooks in boot	✓	✓	✓	✓
2x folding shopping bag hooks in boot	✓	✓	✓	✓
Front centre arm rest with storage	✓	✓	✓	✓
Glove box	✓	✓	✓	✓
2 cup holders in centre console	✓	✓	✓	✓
2 cup holders in rear centre arm rest	✓	✓	✓	✓
Under deck storage	✓	✓	✓	✓
Side deck storage	✓	✓	✓	✓
Illuminated entry system	Opt pack ²	✗	✓	✓
SECURITY	UX	F SPORT DESIGN	F SPORT	TAKUMI
Anti-theft system with alarm, intrusion, tilt and glass breakage sensors, engine immobiliser	✓	✓	✓	✓
Two-motion double door locking	✓	✓	✓	✓
Speed-sensitive auto door locking	✓	✓	✓	✓
VIN etching	✓	✓	✓	✓
Locking wheel nuts (Thatcham approved)	✓	✓	✓	✓

SEATING, UPHOLSTERY & TRIM	UX	F SPORT DESIGN	F SPORT	TAKUMI
Premium fabric upholstery	✓	✗	✗	✗
Tahara synthetic leather upholstery	Opt with opt pack ²	✓	✗	✗
Smooth leather upholstery	Opt Pack ²	✗	✗	✓
F Sport seats with smooth leather upholstery	✗	✗	✓	✗
Heated front seats	Opt Pack ^{1,2}	✓	✓	✓
Heated and ventilated front seats	✗	✗	Opt Pack ³	✓
6-way manually adjustable front seats	✓	✓	✗	✗
8-way power front seat adjustment	Opt Pack ²	✗	✓	✓
2-way power lumbar adjustment on driver's seat	Opt Pack ²	✗	✓	✓
Power adjustable headrest	✗	✗	✓	✗
Memory function for driver's seat	✗	✗	Opt Pack ³	✓
60:40 split-folding rear seats	✓	✓	✓	✓
Map pockets on front seat seatbacks	✓	✓	✓	✓
Washi paper-grain inlays	✓	✓	✗	✓
Aluminium scuff plates	✗	✗	✗	✓
Resin scuff plates	✓	✓	✗	✗
Leather steering wheel trim	✓	✓	✓	✓
Leather shift lever trim	✓	✓	✗	✓
F Sport shift lever with leather trim	✗	✗	✓	✗
F Sport aluminium sports pedals	✗	✗	✓	✗
F Sport aluminium scuff plates	✗	✗	✓	✗
Carpet mats	✓	✓	✓	✓
EXTERIOR	UX	F SPORT DESIGN	F SPORT	TAKUMI
Heated, power-adjustable door mirrors with integrated turn indicators and auto-fold function	✓	✓	✓	✓
Heated, power-adjustable door mirrors with auto-folding and reverse tilt functions and memory setting	✗	✗	Opt ³	✓
Acoustic front side glass	✗	✗	✗	✓
Rear privacy glass	Opt Pack ^{1,2}	✓	✓	✓
Power tailgate	Opt Pack ²	✗	Opt Pack ^{2,5}	✓
Bi-LED headlights with Automatic High Beam	✓	✓	✓	✗
3-eye LED headlights with Adaptive High-beam System	✗	✗	Opt Pack ³	✓
LED daytime running lights	✓	✓	✓	✓
LED front fog lights	Opt Pack ^{1,2}	✓	✓	✓
LED cornering lights	Opt Pack ²	✓	✓	✓
LED rear lights	✓	✓	✓	✓
Illuminated entry	Opt Pack ²	✗	✓	✓
F Sport black spindle grille	✗	✓	✓	✗
F Sport side sills	✗	✗	✓	✗
F Sport bumpers with metallic coating	✗	✓	✓	✗

Black door mirror covers	x		✓	x
Integrated roof rails (chrome)	Opt Pack ^{1,2}	✓	✓	✓
Integrated roof rails (black)	x	x	Opt pack ³	x
Body-colour wheel arch trims	x	x	✓	✓
Sunroof	Option with Opt Pack ²	x	Opt	✓
17in alloy wheels with tyre repair kit	✓	x	x	x
17in dark finish alloy wheels with tyre repair kit	Opt Pack ¹	x	x	x
18in alloy wheels with run-flat tyres	Opt Pack ² Opt with opt pack ¹	x	x	✓
18in F Sport alloy wheels with run-flat tyres	x	✓	✓	x
Special metallic paint finishes	Opt	Opt	Opt	Opt
Bi-tone exterior paint finish	x	x	Opt with opt pack ³	x
OPTION PACKS	UX	F SPORT DESIGN	F SPORT	TAKUMI
¹ Premium Pack: 17in dark alloy wheels, rear privacy glass, front and rear parking sensors, heated front seats, heated steering wheel, chrome roof rails, rain-sensing wipers, LED front fog lights, reversing camera, 750kg towing capability. Option: E-Four.	Opt	x	x	x
² Premium Plus Pack (includes Premium Pack contents): 18in alloy wheels with run-flat tyres, Lexus Link Pro with 12.3in display, wireless charger, 8-way power-adjustable front seats; 2-way power lumbar adjustment on driver's seat; power steering wheel adjustment, smooth leather upholstery, smart keyless entry, power tailgate, illuminated entry, LED cornering lights, Blind Spot Monitor, Rear Cross Traffic Alert with auto brake. Options: E-Four, sunroof.	Opt	x	x	x
³ Takumi Pack (includes Premium Plus Pack contents): head-up display, 3-eye LED headlights with Adaptive High-beam System, Mark Levinson sound system, Panoramic View Monitor, ventilated front seats, driver's seat, steering wheel and door mirror memory settings (3 profiles), card key, sunroof.	x	x	Opt	x

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ENDS

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