

# Safety & legal information



**XK20 alignment laser**

English      Italiano  
简体中文      Español  
Français      Deutsch

## Legal information

### Terms and Conditions and warranty

Unless you and Renishaw have agreed and signed a separate written agreement, the equipment and/or software are sold subject to the Renishaw Standard Terms and Conditions supplied with such equipment and/or software, or available on request from your local Renishaw office.

Renishaw warrants its equipment and software for a limited period (as set out in the Standard Terms and Conditions), provided that they are installed and used exactly as defined in associated Renishaw documentation. You should consult these Standard Terms and Conditions to find out the full details of your warranty.

Equipment and/or software purchased by you from a third-party supplier is subject to separate terms and conditions supplied with such equipment and/or software. You should contact your third-party supplier for details.

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### Radio: Declaration of Conformity



Renishaw plc hereby declares that the radio equipment type XK20 alignment laser is in compliance with:

- EU directive 2014/53/EU

The full text of the declaration of conformity is available at:

<https://www.renishaw.com/resourcecentre/en/details/declaration-of-conformity-xk20-eud-2023-01149--144089>

## USA and Canadian regulations

### FCC notice

#### Supplier's Declaration of Conformity

##### 47 CFR § 2.1077 Compliance Information

**Unique Identifier:** XK20

##### Responsible Party – U.S. Contact Information

Renishaw Inc.

1001 Wesemann Drive

West Dundee

Illinois

IL 60118

United States

Telephone number: +1 847 286 9953

Email: usa@renishaw.com

#### 47 CFR section 15.19

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

#### 47 CFR section 15.21

The user is cautioned that any changes or modifications, not expressly approved by Renishaw plc or authorised representative, could void the user's authority to operate the equipment.

#### 47 CFR section 15.105

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not used in accordance with this manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

#### 47 CFR section 15.27

This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance.



## Legal information

### ISED information to user (Canada only)

#### Standard RSS GEN licence exempt statement

This device complies with Innovation Science and Economic Development Canada's licence exempt RSS standards. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### Class A Equipment Statement (Non-residential)

CAN ICES-003(A) / NMB-003(A).

#### RF exposure statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements établies ar ISDE pour un environnement non contrôlé.

#### No user-accessible RF modifications

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Les changements ou modifications non expressément approuvés par le fabricant pourraient annuler le droit de l'utilisateur à exploiter l'appareil.

## REACH regulation

Information required by Article 33(1) of Regulation (EC) No. 1907/2006 (“REACH”) relating to products containing substances of very high concern (SVHCs) is available at: [www.renishaw.com/REACH](http://www.renishaw.com/REACH)

## RoHS compliance

Compliant with EC directive 2011/65/EU (RoHS)

## China RoHS

For more information, on China RoHS visit: [www.renishaw.com/calchinarohs](http://www.renishaw.com/calchinarohs)



## Packaging

Packaging components	Material	Material abbreviation	Material numeric
Outer box	Cardboard	PAP	20
Inserts	Cardboard	PAP	20
Bag	Low density polyethylene	LDPE	4





## Legal information

### **Disposal of waste electrical and electronic equipment.**

The use of this symbol on Renishaw products and/or accompanying documentation indicates that the product should not be mixed with general household waste upon disposal. It is the responsibility of the end user to dispose of this product at a designated collection point for waste electrical and electronic equipment (WEEE) to enable reuse or recycling. Correct disposal of this product will help to save valuable resources and prevent potential negative effects on the environment. For more information, please contact your local waste disposal service or Renishaw distributor.

### **Disposal of batteries**

The use of the crossed out wheeled bin symbol on the batteries, packaging or accompanying documents indicates that used batteries should not be mixed with general household waste. Please dispose of the used batteries at a designated collection point.

This will prevent potential negative effects on the environment and human health which could otherwise arise from inappropriate waste handling. Batteries may contain hazardous materials such as lithium, nickel, cobalt, graphite, cadmium and lead. These cause soil and water contamination when disposed of incorrectly. Lead, cadmium and nickel are toxic to human and animal life. Lithium may cause a flammability hazard when placed in general waste sites.

Please contact your local authority or waste disposal service concerning the separate collection and disposal of batteries.

Lithium batteries are highly flammable when exposed to heat. All lithium chemistry batteries must be protected from short circuit (by placing in a sealed bag or placing insulation tape over both terminals) prior to being offered for recycling. In addition, all rechargeable lithium batteries must be discharged.

For more information, see the relevant battery manufacturer's website. See also '**Transportation**'.

## Legal information

### Radio communications

The wireless communication module used within the XK20 alignment laser system is pre-approved in a number of regions including the EU, EFTA countries, USA and Canada.

Display unit	Launch unit	M / S units
FCC ID: KQG-XK20DU IC: 3928A-XK20DU	Module manufacturer: Silicon Labs Part no.: BGM220P FCC ID: QOQ-GM220P IC: 5123A-GM220P	Module: Silicon Labs Part no.: BGM111 FCC ID: QOQBGM111 IC: 5123A-BGM111

Further radio approval country-specific statements can be found below:

#### China

<b>Display unit</b>	本设备包含型号核准代码为CMIIT ID: 25J99M1MK059的无线电发射模块
<b>Launch unit</b>	本设备包含型号核准代码为CMIIT ID: 25J99M1MK058的无线电发射模块
<b>M unit</b>	本设备包含型号核准代码为CMIIT ID: 25J99M1MK057的无线电发射模块
<b>S unit</b>	本设备包含型号核准代码为CMIIT ID: 25J99M1MK056的无线电发射模块

#### India

<b>S unit</b>	ETA-SD-20251009031
<b>M unit</b>	ETA-SD-20251009030
<b>Launch</b>	ETA-SD-20251009032
<b>Display</b>	ETA-SD-20251210962

## Legal information

### Radio communications

#### Japan



**S unit** 209-J00192

**M unit** 209-J00192

**Launch** 020-200011

**Display** 222-251029

#### South Korea: Class A Equipment (Industrial Use)



**S unit** R-R-R1P-XK20-S

**M unit** R-R-R1P-XK20-M

**Launch** R-R-R1P-XK20-Launch

**Display** R-R-R1P-XK20-Display

이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.)

#### Taiwan

**S unit** CCAM17LP1660T8

**M unit** CCAM17LP1660T8

**Launch** CCAH26Y10310T6

**Display** -

#### 警語

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。



## Safety information



**WARNING:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Ensure that you read and understand the XK20 system user guide before using any XK20 system.

The XK20 alignment laser system can be used in a variety of environments and applications. To ensure the safety of the user and other personnel in the vicinity it is therefore paramount that a comprehensive risk assessment is carried out for the machine under test before using the XK20 alignment laser system.

This should be carried out by qualified users (requiring machine competency, applicable technical knowledge and a trained risk assessor) with consideration for the safety of all personnel. The risks identified must be mitigated prior to using the product. The risk assessment should pay particular attention to machine, manual handling, mechanical, laser, electrical and power safety.

Based on current research, the wireless devices used in this product would not seem to pose a significant health problem for the vast majority of pacemaker wearers. However, people with pacemakers may want to ensure a minimum distance of 3 cm between the product and pacemaker.



There are no user-serviceable parts inside the XK20 system. Do not remove any part of the housing.



Ensure that you read and understand the XK20 user guides before using any XK20 system.

## Laser optical safety

- In accordance with (IEC) EN60825-1, XK20 systems are Class 2 lasers and safety goggles are not required (under normal circumstances the eye will blink and look away before damage can occur).
- Do not stare directly into the laser beams or view them with optical equipment such as telescopes, convergent mirrors or binoculars as permanent retinal damage could occur. Do not direct the beam at other people or into areas where people unconnected with laser work might be present. It is safe to view a diffuse-reflected beam during system alignment.
- FDA compliance (USA) - complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. EN 60825-1:2014+A11:2021
- Switch device off when not in use to ensure no beam is emitted.

## Mechanical safety

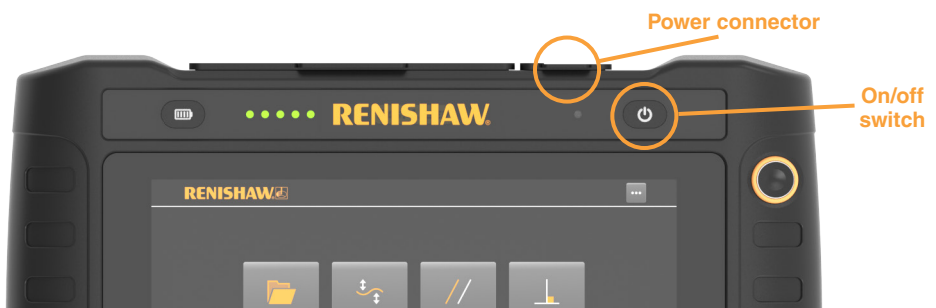
- When setting up and mounting Renishaw XK20 systems beware of pinch and/or crush hazards that may be created e.g. due to magnetic mounting bases.
- Beware of trip hazards that may be created when using the XK20 system. e.g. due to trailing cables.
- Exercise caution if components are to be mounted to moving or rotating machinery. Beware of cables becoming entangled.
- Exercise extreme caution if XK20 system components are to be mounted to machinery that may accelerate rapidly or move at high speed, which could lead to items colliding or being ejected.
- If it is necessary to operate the machine with the guards or any safety feature removed or disabled, it is the responsibility of the operator to ensure that alternative safety measures are taken in line with the machine manufacturer's operating instructions or relevant codes of practice.
- The entire XK20 system weighs approximately 24 kg in the case (including the fixturing kit). Users should exercise caution and follow local manual handling guidelines.





## Electrical and power safety

- The XK20 system power supply must not come into contact with fluids.
- The power supply unit must not be positioned inside the machine volume.
- The XK20 system has been qualified for use with the power supply supplied with the system. A specification for this power supply unit can be found in the XK20 system user guide.
- In the event of damage to the single phase mains cabling section of the power supply (power lead), all power must be isolated from the equipment before any other action is taken.
- Never connect the system to devices not intended to be used with the XK20 system.



## Battery safety

### Rechargeable

This product is supplied with rechargeable lithium ion batteries. Refer to the battery manufacturer's literature for specific battery operating, safety and disposal guidelines.

- Use only the charger supplied with the product to recharge the batteries.
- Replace the batteries only with the specified type.
- Do not mix batteries with different states of charge in the product.
- Do not mix different types or brands of batteries within the product.
- Ensure that all batteries are always inserted with the correct polarity in accordance with the instructions in this manual and indicated on the product.
- Do not store the batteries in direct sunlight
- Do not expose the batteries to water.
- Do not expose the batteries to heat or dispose of the batteries in a fire.
- Avoid forced discharge of the batteries.
- Do not short circuit the batteries.
- Do not disassemble, apply excessive pressure, pierce, deform or subject the batteries to impact.
- Do not swallow the batteries
- Keep the batteries out of the reach of children.
- If the batteries are swollen or damaged do not use them in the product and exercise caution when handling them.
- Dispose of waste batteries in accordance with your local environmental and safety laws.

Ensure that you comply with international and national battery transport regulations when transporting batteries or this product with the batteries inserted.

Lithium ion batteries are classified as dangerous goods for transportation and require labelling and packaging in accordance with the dangerous goods regulations before being offered for transportation.

## Battery safety

### Transportation

Ensure that you comply with international and national battery transport regulations when transporting batteries or XK20 system kits.

Lithium-ion batteries are contained within the product. Lithium batteries are classified as dangerous goods and strict controls apply on their shipment by air. To reduce the risk of shipment delays, should you need to return the XK20 system to Renishaw for any reason, please ensure the device has been correctly declared.




In order to ship XK20 systems by airfreight in line with IATA regulations, lithium batteries used throughout the system need to be suitably declared. The table below gives full details of the batteries used for shipping declarations.

Due to the non-removable nature of the batteries within this product, care must be taken to ensure that the product does not become activated during transportation. This can be achieved by protecting the on/off switches from being contacted by any packaging material or other items within the product box. Shipping the XK20 product in the supplied product case will prevent any accidental activation of the product during transportation.

Battery	Weight	Quantity	Purpose/description	Link to manufacturer's data sheet
<b>Launch unit</b>				
Celltech 365-7043 / Celltech 367-1985 Rechargeable Li-ion, 3.7 V, 7.4 Wh, 2000 mAh	39 g	2	Rechargeable internal lithium-ion battery pack for the alignment laser Launch unit	Available on request
<b>Display unit</b>				
APP00361 Rechargeable Li-ion, 3.6 V, 68.04 Wh, 18900 mAh	310 g	1	Rechargeable internal lithium-ion battery for the display unit	Available on request
<b>M &amp; S units</b>				
Celltech 365-7043 / Celltech 367-1985 Rechargeable Li-ion, 3.7 V, 7.4 Wh, 2000 mAh	39 g	1	Rechargeable internal lithium-ion battery for the M or S unit	Available on request

[www.renishaw.com/xk20](http://www.renishaw.com/xk20)

 #renishaw

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