

Trimble SX12

SCANNING TOTAL STATION

Regulatory Information

Information about regulatory models / Included radio modules

Regulatory Models	SX12-100	SX12-200
Radio Modules	Long Range Radio module, frequency band 2.4 GHz, max RF output power +20 dBm	Wi-Fi HaLow™ Radio module, frequency band 902 to 928 MHz Max RF output power +24dBm
	WLAN Radio module, frequency band 2.4 GHz, max RF output power +20 dBm	WLAN Radio module, frequency band 2.4 GHz, max RF output power +20 dBm
Regulatory note	-	For use in USA, Canada, Australia* and New Zealand* only

*With limited frequency band 915 to 928 MHz.

This equipment complies with the FCC & ICES RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of the human body.

EUROPE

NOTE – Only applicable for SX12-100

Hereby, Trimble®, declares that the Trimble SX12 Scanning Total Station is in compliance with the following directives:

- Machinery Directive 2006/42/EC
- RED 2014/53/EU
- RoHS Directive 2011/65/EU

Notice to our European customers

For product recycling instructions, please go to:
trimble.com/en/our-commitment/responsible-business/product-compliance/environmental-compliance.



USA

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifiers:

Trimble SX12-100 and SX12-200

Responsible Party

Trimble Inc.

4450 Gibson Drive, Tipp City,

OH45371 USA

trimble.com

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE – This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

CANADA

This Class B digital apparatus complies with Canadian ICES-003.

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

The radio transmitters 4492A-2420, 4908A-PMACS and 4908A-SXNEWAH have been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device:

- Antenna LRR + Wi-Fi (SX12-100): Part number 55001508, antenna gain 2 dBi
- Antenna Wi-Fi HaLow + Wi-Fi (SX12-200): Part number 55003790, antenna gain <1.7dBi

Cet appareil numérique de la classe B est conforme à la norme NMB.003 du Canada.

L'émetteur/récepteur exempt de licence contenu dans 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 :

L'appareil ne doit pas produire de brouillage;

L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio 4492A-2420, 4908A-PMACS et 4908A-SXNEWAH a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur :

- Antenne LRR + Wi-Fi (SX12-100) : Trimble numéro de référence 55001508, gain d'antenne 2 dBi
- Antenne Wi-Fi HaLow + Wi-Fi (SX12-200) : Trimble numéro de référence 55003790, gain d'antenne <1.7dBi

BATTERY SAFETY INFORMATION

WARNING – Do not damage the rechargeable Lithium-ion battery. A damaged battery can cause an explosion or fire, and can result in personal injury and/or property damage. To prevent injury or damage:

- Do not use or charge the battery if it appears to be damaged. Signs of damage include, but are not limited to, discoloration, warping, and leaking battery fluid.
- Do not expose the battery to fire, high temperature, or direct sunlight.
- Do not immerse the battery in water.
- Do not use or store the battery inside a vehicle during hot weather.
- Do not drop or puncture the battery.
- Do not open the battery or short-circuit its contacts.

WARNING – Avoid contact with the rechargeable Lithium-ion battery if it appears to be leaking. Battery fluid is corrosive, and contact with it can result in personal injury and/or property damage. To prevent injury or damage:

- If the battery leaks, avoid contact with the battery fluid.
- If battery fluid gets into your eyes, immediately rinse your eyes with clean water and seek medical attention. Do not rub your eyes!
- If battery fluid gets onto your skin or clothing, immediately use clean water to wash off the battery fluid. If skin irritation or pain persists, seek medical attention.

WARNING – Charge and use the rechargeable Lithium-ion battery only in strict accordance with the instructions. Charging or using the battery in unauthorized equipment can cause an explosion or fire, and can result in personal injury and/or equipment damage. To prevent injury or damage:

- Do not charge or use the battery if it appears to be damaged or leaking.
- Charge the Lithium-ion battery only in a Trimble product that is specified to charge it. Be sure to follow all instructions that are provided with the battery charger.
- Discontinue charging a battery that gives off extreme heat or a burning odor.
- Use the battery only in Trimble equipment that is specified to use it.
- Use the battery only for its intended use and according to the instructions in the product documentation.
- Cover battery terminals with proper insulating tape before disposal to avoid heat generation by an inadvertent short-circuit.

LASER SAFETY INFORMATION

Before using the instrument, make sure that you understand this document, as well as all equipment, job site safety requirements and regulations.

This equipment has been tested and found to comply with IEC 60825-1:2014.

It also 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.

WARNING – Viewing the laser output with telescopic optical instruments (for example, telescopes and binoculars) may pose an eye hazard and thus the user should not direct the beam into an area where such instruments are likely to be used.

WARNING – Use of controls or adjustments or performance of procedures other than those specified in the user documentation may result in hazardous LED or laser radiation exposure. As with any bright light source, such as the sun, electric welding arcs or arc lamps, common sense applies. DO NOT look into the laser aperture when the laser is on. For further information regarding safe use of lasers, refer to the IEC 60825-1:2014.

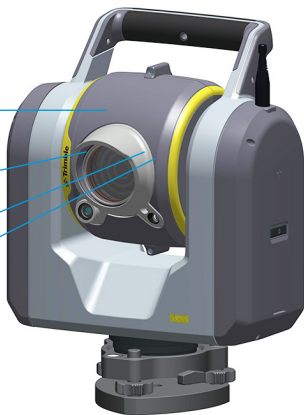
Apertures

Aperture for distance measurement, tracker, tele camera and optional laser pointer

Aperture for overview camera

Aperture for target illumination

Aperture for primary camera



Laser Sources

The Trimble SX12 Scanning Total Station is a CLASS 1M LASER PRODUCT.

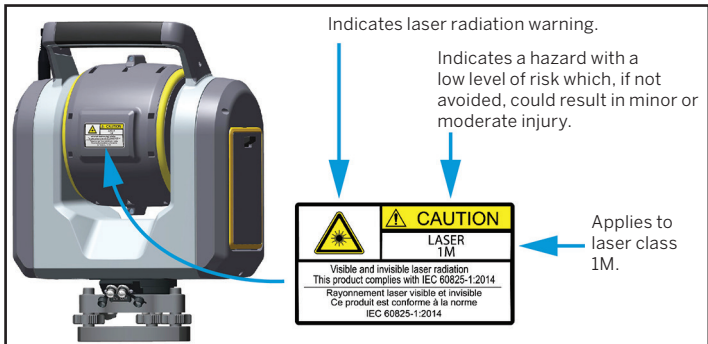
The instrument can contain visible and invisible laser sources.

A class 1 optional laser pointer with a wavelength of 520 nm.

A class 1 tracker laser for Autolock® technology function with a wavelength of 850 nm.

A class 1M laser for distance measuring with a wavelength of 1550 nm:

- Beam divergence of 0.2 mrad
- Output power <10 mW
- Pulse duration 1 ns
- Pulse repetition rate 27 kHz



Additional information

The original document is written in English. All documents in other languages are translations from the original English document. For more information and information in other languages, go to [trimble.com](https://www.trimble.com).

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Trimble Inc., 10368 Westmoor Drive, Westminster CO 80021, USA
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