


KEYENCE WM-6000 Series WLAN Unit



# KEYENCE WM-6000 Series WLAN Unit Instruction Manual

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**KEYENCE**

## KEYENCE WM-6000 Series WLAN Unit






## Introduction

This equipment can be used with WM-6000 Series only. Read this instruction manual before using the product in order to achieve maximum performance. After reading it, keep the manual always at hand for future reference.

## Symbols

The following symbols alert you to important messages. Be sure to read these messages carefully.

|  |  |
|--|--|
|  <b>DANGER</b>  | <b>Indicates a hazardous situation which, if not avoided, will result in death or serious injury.</b>          |
|  <b>WARNING</b> | <b>Indicates a hazardous situation which, if not avoided, could result in death or serious injury.</b>         |
|  <b>CAUTION</b> | <b>Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</b>        |
| <b>NOTICE</b>  | <b>Indicates a situation which, if not avoided, could result in product damage as well as property damage.</b> |



Important

**Indicates cautions and limitations that must be followed during operation.**



Point

**Indicates additional information on proper operation.**



Reference

Indicates tips for better understanding or useful information.

- It is prohibited to use or copy all or any part of this manual without prior approval.
- The information contained in this manual is subject to change without notice.

## Precautions on regulations and authentication

### Precautions regarding wireless LAN

Remove the main battery of the WM series near electrical medical devices or places in medical institutions where the use of wireless devices is prohibited. Carry and use this device away from implantable cardiac pacemakers.

- As communication may not be possible depending on the operating environment, be sure to conduct a communication check before implementation.
- When the device is used near other devices operating at the same frequency band as the device e.g. wireless LAN devices, microwave ovens, industrial heating equipment, high-frequency medical equipment etc., radiowave interference may occur, resulting in a drop in the communication speed or communication being disabled.
- When Bluetooth and wireless LAN are used simultaneously, radio wave interference may occur, resulting in a drop in the communication speed or communication being cut off. If communication is impaired, stop the use of either Bluetooth or the wireless LAN.
- Communication may not be possible near metal objects, in places where there is a lot of metal powder, and in places surrounded by metal walls.

### CE and UKCA Markings

KEYENCE Corporation has confirmed that this product complies with the essential requirements of the applicable EU Directive(s) and UK regulations, based on the following specifications. Be sure to consider the following specifications when using this product in the Member States of the European Union and the United Kingdom.

## RE Directive

- Applicable Standards (BS) EN61010-1
  - EN301 489-1
  - EN301 489-17
  - EN300 328
- The frequency band of operation: 2400 to 2483.5 and 5180-5825 MHz
- Maximum radio-frequency power: 16.5dBm
- Overvoltage category I
- Use this product under pollution degree 2.
- Use this product at an altitude of 2000m or less.
- Indoor use only

Hereby, Keyence declares that the radio equipment type WM-WL complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: [www.keyence.com/cedoc](http://www.keyence.com/cedoc)

## CSA Certificate

This product complies with the following CSA and UL standards and has been certified by CSA.

- Applicable standard CAN/CSA C22.2 No.61010-1 UL61010-1 Be sure to consider the following specifications when using this product as a product certified by CSA.
- Overvoltage category I
- Use this product under pollution degree 2.
- Use this product at an altitude of 2000m or less.
- Indoor use only

## FCC Regulations

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.

**FCC CAUTION** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, according 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 installed and used under the instruction 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 the user will be required to correct the interference at his own expense. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low-power wireless devices. There is no proof, however, that these low-power wireless devices are safe. Low-power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings

have not been confirmed by additional research. This WM-WL has been tested and meets the FCC radio frequency (RF) exposure guidelines when used with the WM-RU, WM-RU supplied as the accessory. Use of other accessories may not ensure compliance with the FCC RF exposure guidelines.

## ISED Regulations

This product complies with the following regulations specified by the ISED.

- Applicable regulation CAN IECS-003(A) NMB-003(A) RSS-247

This device contains license-exempt transmitters)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-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 available scientific evidence does not show that any health problems are associated with using low-power wireless devices. There is no proof, however, that these low-power wireless devices are safe. Low-power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. This WM-WL has been tested and meets the ISED RF exposure rules when used with the WM-RU accessories supplied or designated for this product. Use of other accessories may not ensure compliance with ISED RF exposure rules.



## WARRANTIES AND DISCLAIMERS

1. KEYENCE warrants the Products to be free of defects in materials and workmanship for a period of one (1) year from the date of shipment. If any models or samples were shown to Buyer, such models or samples were used merely to illustrate the general type and quality of the Products and not to represent that the Products would necessarily conform to said models or samples. Any Products found to be defective must be shipped to KEYENCE with all shipping costs paid by the Buyer or offered to KEYENCE for inspection and examination. Upon examination by KEYENCE, KEYENCE, at its sole option, will refund the purchase price of, or repair or replace at no charge any Products found to be defective. This warranty does not apply to any defects resulting from any action of Buyer, including but not limited to improper installation, improper interfacing, improper repairs, unauthorized modification, misapplication, and mishandling, such as exposure to excessive current, heat, coldness, moisture, vibration or outdoors air. Components that wear are not warranted.
2. KEYENCE is pleased to offer suggestions on the use of its various Products. They are only suggestions, and it is the Buyer's responsibility to ascertain the fitness of the Products for the Buyer's intended use. KEYENCE will not be responsible for any damages that may result from the use of the Products.
3. The Products and any samples ("Products/Samples") supplied to Buyer are not to be used internally in humans, for human transportation, as safety devices or fail-safe systems, unless their written specifications

state otherwise. Should any Products/ Samples be used in such a manner or misused in any way, KEYENCE assumes no responsibility, and additionally, Buyer will indemnify KEYENCE and hold KEYENCE harmless from any liability or damage whatsoever arising out of any misuse of the Products/Samples.

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If the Products/Samples purchased by the Buyer are to be resold or delivered to a third party, the Buyer must provide such third party with a copy of this document, all specifications, manuals, catalogs, leaflets, and written information provided to the Buyer pertaining to the Products/Samples.

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### References

- [KEYENCE Declaration of Conformity for RE Directive | KEYENCE America](#)
- [User Manual](#)

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