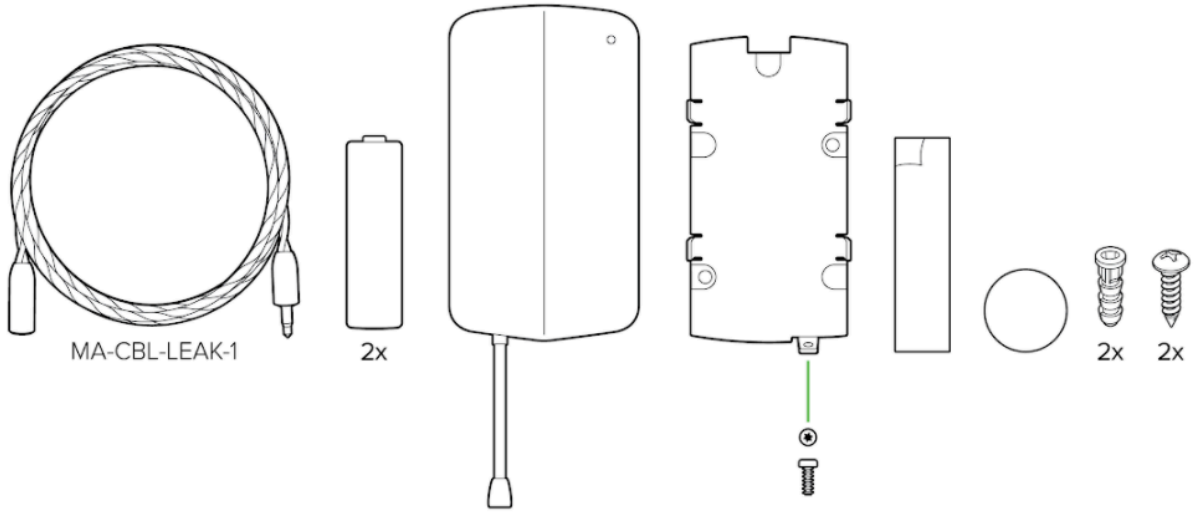
MT12-HW Installation Guide

MT12 Overview

The Cisco Meraki MT12 is wireless Bluetooth-enable sensor product. The MT12 is designed to be deployed primarily in a networking environment (e.g., network closet) alongside Meraki equipment enabling the end-user to receive alerts from the device specific to moisture and water leaks.

Package Contents and Wall Mount Hardware

In addition to the MT12, the following are provided:



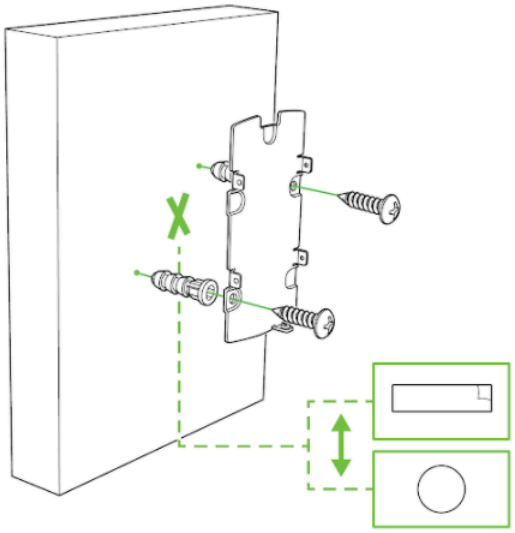
Installation Instructions

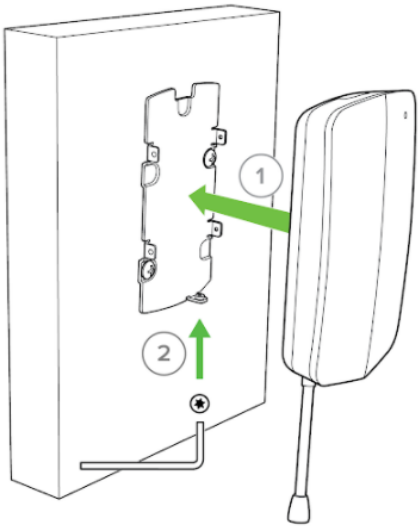
***Note**: Each MT12 comes with an instruction insert within the box. This insert contains detailed step-by-step guides and images to assist in the physical installation of the camera. A pdf can be found here. (Note—this is a draft hyperlink not active yet.)*

***Note**: During first time setup, the MT12 will automatically update to the latest stable firmware. Some features may be unavailable until this automatic update is completed. This process may take up to 10 minutes due to enabling of whole disk encryption.*

Wall Mount Hardware Setup

The MT12 has multiple options for mounting to a surface. A mounting plate and two screws allowing it to be mounted to a wall using screws. If necessary, two drywall anchors are included to help if the wooden stud cannot be located. In addition to using screws, the mounting can be secured to a surface using the provided 3M adhesive tape or round magnet sponge. Please note—When using the magnet for mounting, the height of the device should be 2 meters or less.



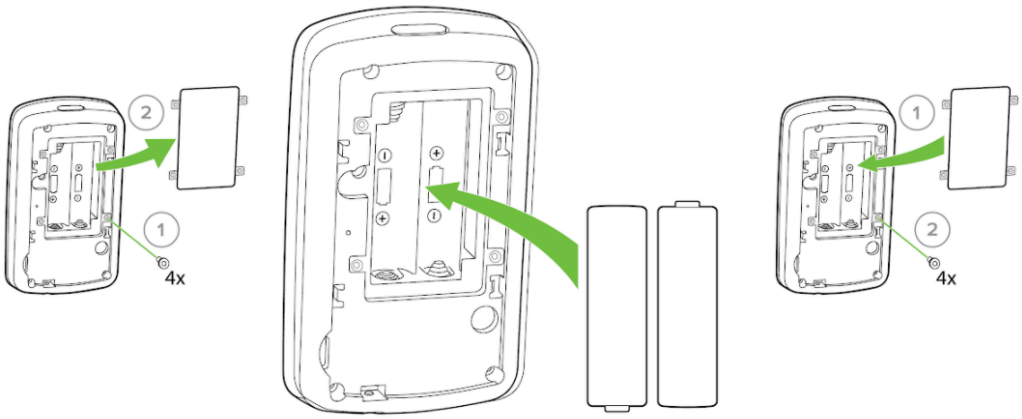


Bluetooth 5.0

The MT12 features Bluetooth 5.0 which allows the device to perform over long distance with other Meraki networking devices to monitor the environment it will be used in.

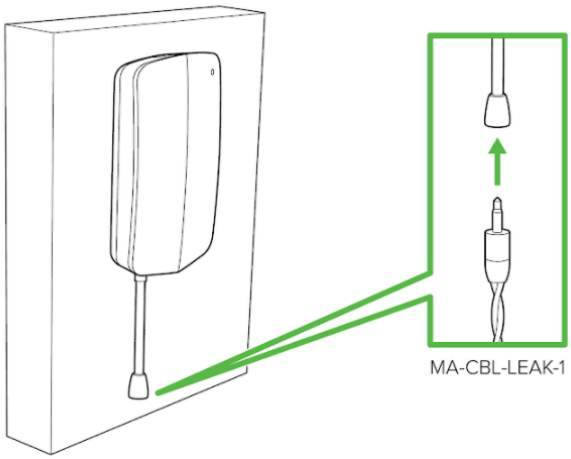
Power Options

The MT12 is powered with two AA-batteries. The expected battery life when used with this product is estimated to be 5 years for the MT12.



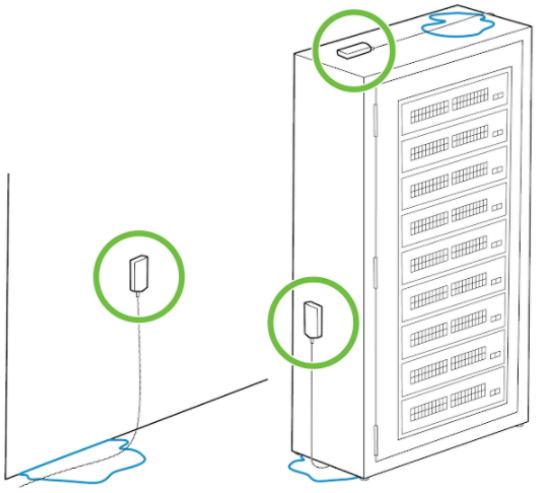
Pre-Install Preparation

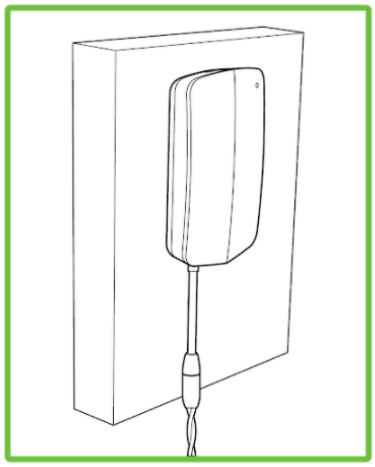
You should complete the following step before starting to configure the device which is to attach the MA-CBL-LEAK-1 cable to the device as shown below.



Examples of Placement Locations

Here are some examples of where the MT12 can be setup and placed in a networking environment.





Configure your MT12 in the Networking using Dashboard

The following is a brief overview only of the steps required to add a MT12 to your network. For detailed instructions about creating, configuring, and managing Meraki IoT networks, refer to the online documentation (https://documentation.meraki.com/MT).

1. Login to http://dashboard.meraki.com. If this is your first time, create a new account.
2. Find the network to which you plan to add your MT12(s) or create a new network.
3. Add your MT12(s) to your new network. You will need your Meraki order number (found on your invoice) or the serial number of each camera, which looks like Qxxx-xxxx-xxxx, and is found on the bottom of the unit.
4. Verify that the camera is now listed under **IoT> Monitor > IoT.**

Check and Configure Firewall Settings

If a firewall is in place, it must allow outgoing connections to particular ports using given IP addresses. The most current list of outbound ports and IP addresses for your particular organization can be found here.

DNS Configuration

Each MT12 will generate a unique domain name to allow for secured direct streaming functionality. These domain names resolve an A record for the private IP address of the camera. Any public recursive DNS server will resolve this domain.

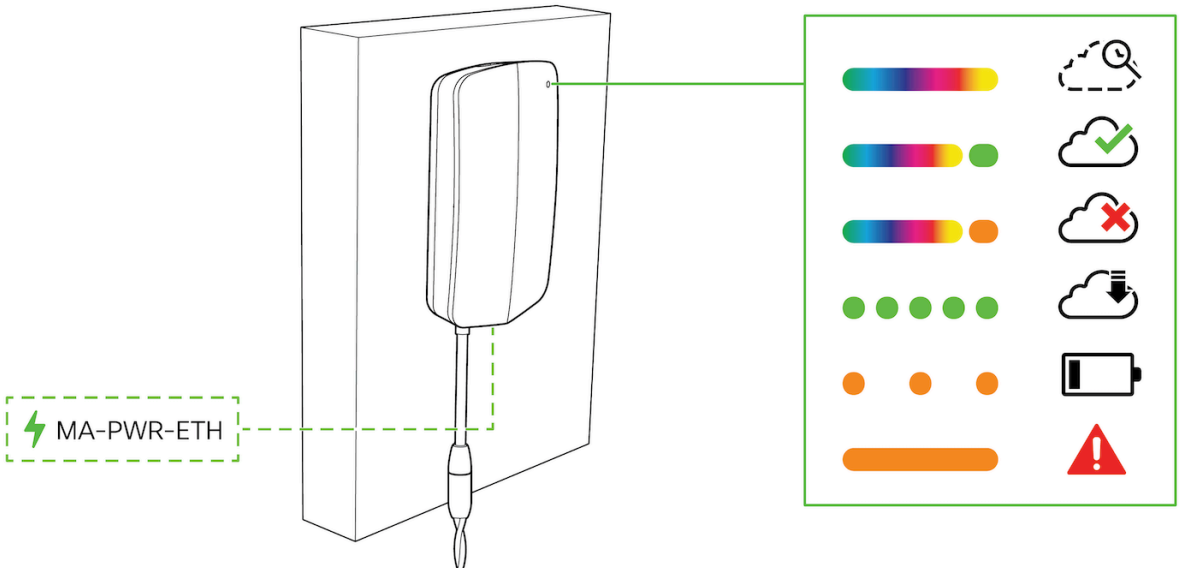
If utilizing an onsite DNS server, please whitelist *.devices.meraki.direct or configure a conditional forwarder so that the local domains are not appended to *.devices.meraki.direct and that these domain requests are forwarded to Google public DNS.

Assigning IP Addresses

At this time, the MT12 does not support static IP assignment. MT12 units must be added to a subnet that uses DHCP and has available DHCP addresses to operate correctly.

Login to Meraki Dashboard

Login to dashboard.meraki.com



Technical Specifications

Opera**tional Temperature**

-18ºC to 55ºC degrees

Dimensions:

Length: 4.61 inches

Width: 2.59 inches

Height: 1.03 inches

Power Rating:

5Vdc

Regulatory Statements

EU Radiation Exposure Statement

Installing or mounting of this device shall be done as such that a minimum separation distance (distance between a person and the device, or the device's antennas) of 20 cm is always ensured.

EU WEEE Position Statement
The European Union (EU) WEEE Directive, 2012/19/EU of July 2012, supersedes the original directive, 2002/96/EC of January 2003, and is implemented through national regulations in all European Economic Area (EEA) countries including all EU member states, Norway, Liechtenstein, and Iceland.

EU Battery Disposal and Recycling
This product may contain a battery. Recycle or dispose of batteries in accordance with the battery manufacturer's instructions and local/national disposal and recycling regulations.

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.

FCC Interference Statement

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 correct the interference by one 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 which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by Cisco Systems, Inc. could void the user's authority to operate this equipment. This Transmitter must not be co-located or operation in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device contains license-exempt transmitter(s)/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.

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 :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
*D_éc_l_a_r_a_t_i_o_n_ _d_'e_x_p_o_s_i_t_i_o_n_ _a_u_x_ _r_a_d_i_a_t_i_o_n_s_*:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Taiwan Battery

Taiwan Wireless Statements

低功率電波輻射性電機管理辦法

第 12 條
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。

第 14 條
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。

Statement CS-0438 - 台灣 RoHS
台灣RoHS“限用物質含有情況標示聲明書”網址 www.cisco.com/go/taiwanrohs

Statement CS-0438 - Taiwan RoHS
Taiwan RoHS “Restricted Substances Content Disclosure Table” web address www.cisco.com/go/taiwanrohs