

Wireless Wire Dish

The Wireless Wire Dish is a set of two LHG 60G devices that work in the 60 GHz wireless spectrum. Factory configured in pairs for an easy first start.

Quickstart

- Assemble unit. Please see [Assembly](#) section.
- Open the Ethernet door to connect an Ethernet cable to the Ethernet port, connect the other end of the Ethernet cable to the included PoE injector.
- Plug the PoE injector into your network switch or ISP internet outlet.
- Plug the included power supply into the PoE injector to start up the device.
- Mount on the mast or pole. Please see [Mounting](#) section.
- Align both units using aim tool by following LED indicator signals.
- Set LAN computer IP configuration to *automatic* (DHCP).
- Once connected to the wireless network, open <http://192.168.88.1> in your web browser to start configuration, user name: Admin and password is located under each unit's cable cover.
- We recommend clicking the "Check for updates" button and updating your RouterOS software to the latest version to ensure the best performance and stability.
- Choose your country, to apply country regulation settings and set up your password in the screen that loads.

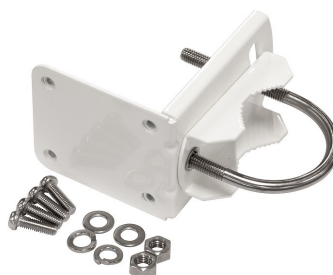
Assembly

1. Attach the two legs to the LHG case.
2. Snap the assembled LHG unit to the grid in the appropriate locations.
3. Fix the legs in place with two self thread screws (Use Phillips screwdriver PH2).



Mounting

- Attach the mounting assembly to the back of the device with four provided screws. For more details please visit https://i.mt.lv/cdn/rb_files/illustrated_mounting_guide_for_LHG-180704095554.pdf



- Mount assembled unit to the pole using provided U bolt clamp. Clamping diameter with provided steel clamp is 35 – 70 mm.



- Use Aim tool to adjust your device. Please see section [LED status](#).



The device includes a grounding connection (marked \equiv) which you should connect to the grounding installation of the tower or building where the device will be used. This is to substantially reduce the risk of ESD and lightning damage. Grounding connector included in the package.



Warning! This equipment should be installed and operated with a minimum distance of 95 cm between the device and your body. Operation of this equipment in the residential environment could cause radio interference.

The IP rating scale for this device is IP54.

Mounting and configuration of this device should be done by a qualified person.

Extension slots and ports

- One Ethernet port, supporting automatic cross/straight cable correction (Auto MDI/X), so you can use either straight or cross-over cables for connecting to other network devices.
- WiGig, 802.11ad.

Powering

The devices accept powering from the Ethernet port. The Ethernet port accepts PoE input 12-57 V DC (passive and 802.3af/at). A power adapter and a passive PoE injector are included in the box. When using the PoE injector, make sure to use the “Power + Data” connector to connect to the device, and the “Data” connector to your PC, router or switch.

Connecting to a POE Adapter:

1. Connect the Ethernet cable from the device to the POE+DATA port of the POE adapter.
2. Connect an Ethernet cable from your local network (LAN) to the POE adapter.
3. Connect the power cord to the adapter, and then plug the power cord into a power outlet.

Maximum power consumption 5 W.

Configuration

Full RouterOS documentation is located here: <http://mt.lv/help>.

Devices included in the Wireless Wire dish kit have been preconfigured with 60GHz and Ethernet interfaces in bridge mode. Another configuration has to be applied according to the documentation manual linked above.

Connect each of Wireless Wire dish devices to your network using an Ethernet cable. To be able to communicate between these networks, devices have to be pointed at each other and be in direct line of sight. Once connected the devices will automatically bridge both networks.

Please get yourself familiar with additional information on: <https://wiki.mikrotik.com/wiki/Manual:Interface/W60G>

Access devices by Ethernet cable, using the MikroTik Winbox utility. Winbox should be used to connect to the default IP address of 192.168.88.2 for the master device and 192.168.88.3 for the slave device. Username for login is admin and password is printed on the label that can be found inside the device cover.

For recovery purposes, it is possible to boot the device for reinstallation, see section Buttons and jumpers.

Buttons and jumpers

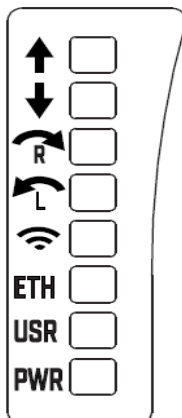
RouterBOOT reset button has the following functions. Press the button and apply the power, then:

- Release the button when a green LED starts flashing, resets to password protected state (~5 seconds)
- Release the button when the LED turns solid green to clear all configuration (~10 seconds)
- Release the button after LED is no longer lit (~20 seconds) to cause the device to look for Netinstall servers (required for reinstalling RouterOS over the network).

Regardless of the above option used, the system will load the backup RouterBOOT loader if the button is pressed before power is applied to the device. Useful for RouterBOOT debugging and recovery.

LED status

The device includes precise alignment guides using LEDs. The lights indicate with arrows direction to turn the dish if looking from the behind the dish to the other end of the link. When alignment LEDs turn off, leaving only "link established" LED, it means alignment is complete. The LED lights are:



- Tilt up.
- Tilt down.
- Rotate to right.
- Rotate to left.
- LED on when link established.
- LED on when Ethernet connected.
- User-configurable LED.
- Power state on.

Accessories

Package includes the following accessories that come with the device:

- K-LHG screw set/fastening set.
- Gigabit POE injector.
- LHG-5G-390 mm Dish (mesh size 0.5 t x1.0 wx1.4 mm).
- EU/US Switching Power Supply 24 V \Rightarrow , 0.38 A, 9 W, Level VI, cable:1.5 m.
- Hose Clamp SUS304 (Philips type; clamping diameter range 35-70 mm).
- BRAC1_ LHG montage element.
- DynaDish U-Bolt M8 (A2 Stainless Steel).
- QuickMount AIM.

Specifications

For more information about LHG products, specifications and pictures please visit our web page:

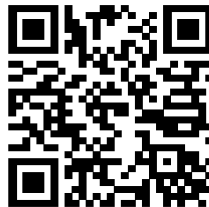
https://mikrotik.com/product/wireless_wire_dish

Operating system support

The device supports RouterOS software version 6. The specific factory-installed version number is indicated in the RouterOS menu /system resource. Other operating systems have not been tested.

MikroTik mobile app

Use the MikroTik smartphone app to configure your router in the field, or to apply the most basic initial settings for your MikroTik home access point. Scan QR code and choose your preferred OS.



This device meets the Maximum TX power limit per ETSI regulations. An Operational mode in the 60 GHz band:58.32 GHz, 60.48 GHz, 62.64 GHz, 64.80 GHz. This device is certified for outdoor use in Point-to-multipoint applications. In the following countries, fixed service is allowed only in part of the band:

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK