



# MLA-S (light QRP)



## Quick start guide

Thank you for choosing our product. MLA-S Light QRP can be assembled easily, you only need coaxial cable and transceiver to operate. It works well on nine shortwave bands except the 160 m band, this means that you can operate the antenna on bands from 3,5 to 28 MHz including all CB channels. To ensure that the antenna is delivering optimal performance, tune the antenna precisely and confirm that you have optimal SWR, it should be lower than 1,2. Regularly check SWR when you change operating frequency.

<b>Frequency range</b>	3,5 to 28 MHz
<b>Input impedance</b>	50 $\Omega$
<b>Typical Q</b>	up to 250
<b>Maximum usable power</b>	10 W
<b>Best achievable SWR</b>	1:1 max 1:1,2
<b>Input connector</b>	BNC
<b>Antenna dimensions</b>	0,85 x 0,17 x 0,90 m
<b>Antenna weight</b>	1 kg
<b>Loop diameter</b>	85 cm

### CONTACT US

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# THINGS INCLUDED IN THE PACKAGE



**Capacitor assembly**



**Main antenna loop**



**Faraday coupling loop (FCL)**



**Loop support bars**



**Connector for support bars**



**Jumpers**



**Jumper holder**

**In case you have any questions about the antenna, feel free to contact us at:**

**[robert.scepko@loop2er.cz](mailto:robert.scepko@loop2er.cz)  
[www.loop2er.cz](http://www.loop2er.cz)**



# ASSEMBLY GUIDE

- 1 Insert first loop support bar into capacitor assembly and attach the connector for support bars.**



- 2 Attach FCL to the other loop support bar. There is a screw to fix the FCL.**



# ASSEMBLY GUIDE

- 3** Attach main antenna loop to the loop support bar.



- 4** Attach the holder with strings to the loop support bar.



# ASSEMBLY GUIDE

## 5 Connect the two loop support bars.



## 6 Screw in the coaxial cable on both sides.



# ASSEMBLY GUIDE

- 7** Antenna can be mounted on most photographic tripods due to 1/4" thread on the bottom.



- 8** Attach jumper holder, you can also use the rubber band to put tension on strings holding the main loop.



# Tuning the antenna with transceiver

*(with antenna analyzer on page 9)*

- 1 To connect your transceiver, use BNC connector on the antenna.**



- 2 Plug in jumper depending on your desired frequency.**



**Metal**  
**3,5 - 5,3 MHz**



**With capacitor**  
**7 - 10 MHz**



**No jumper**  
**14 – 28 MHz**

# Tuning the antenna with transceiver

*(with antenna analyzer on page 9)*

- 3 Set your desired frequency on your transceiver and turn the antenna tuning button until you hear loudest signals, then move to the next step.**



- 4 Transmit with low power. If you have high SWR try turning the tuning button (be careful, tuning is very sharp) if this doesn't help, move to the next step.**



# Tuning the antenna with transceiver

*(with antenna analyzer on page 9)*

- 5** To improve your SWR you can move or deform the FCL, then try transmitting again. Work with the tuning button and move or deform the FCL until you have perfect SWR.



# Tuning the antenna with antenna analyzer

*(with transceiver on page 6)*

- 1 To connect your antenna analyzer, use BNC connector on the antenna.**



- 2 Plug in jumper depending on your desired frequency.**



**Metal**  
3,5 - 5,3 MHz



**With capacitor**  
7 - 10 MHz



**No jumper**  
14 - 28 MHz

# Tuning the antenna with antenna analyzer

*(with transceiver on page 6)*

- 3 Set your desired frequency on antenna analyzer and move the tuning button (be careful, tuning is very sharp.) until you have the best achievable SWR, then move to the next step.**



- 4 To further improve the SWR you can move or deform the FCL. Work with the tuning button and move or deform the FCL until you have perfect SWR.**

