mANT30 Polarization Slant Guide

This guide is written to slant mANT30 PA* Horizontal/Vertical polarization layout to \( +45^\circ/-45^\circ \). Slant can positively** affect Point-to-Point link:
1) reduce RF interference in signal congested areas;
2) reduce the impact on local microwave devices;
3) unify the channel output if deployed near a body of water.

* The polarization slant support mANT30 antennas with 8x square-bore parabolic dish. The guide assumes the mANT30 is preassembled.
** The upgrade is optional. Customer shall decide if polarization slant is useful of being applied. Slant must be applied to both antennas in Point-to-Point link.

mANT30 PA assembly preview back

Slant Guide for preassembled mANT30 PA

0. Items Required
- 8mm, 10mm Wrench
- This guide is written to be used with a MikroTIK RB900 series outdoor device (sold separately)
- mANT30 must be detached from pole

1. Disconnect RF cables
Remove the MikroTIK Radio cover. Disconnect RF cables. Use 8mm wrench to loosen the RF cables.

2. Remove MikroTIK Radio unit
Loosen the Wing Nut and remove the MikroTIK Radio with Case Holder as shown in Figure 2.
3. Separate Parabolic Dish and Feed

Separate Parabolic Dish and Antenna Feed from assembly by unscrewing M6 Nut x 8 pcs.
Remove all fasteners:
M6x20 Bolt x 8 pcs;
M6 Washer x 8 pcs;
M6 Spring Lock Washer x 8 pcs;
M6 Nut x 8 pcs.

Warning:
• Ensure the components are not damaged during the process.

4. Slant polarizations

Slant polarizations from Horizontal/Vertical to +45°/-45° by rotating the Parabolic Dish and Feed 45° counter clockwise relatively to antenna mounting brackets as shown in Figure 4.
5. Reassemble antenna components

Reverse guide steps #3 and #2

Install Back Plate to Parabolic Dish using:
- M6x20 Bolt x 8 pcs;
- M6 Washer x 8 pcs;
- M6 Spring Lock Washer x 8 pcs;
- M6 Nut x 8 pcs.

Attach Case Holder - MikroTIK Radio assembly to Back Plate by fitting Case Holder's hinges into the Back Plate's flange - see Figure 5. Secure Case Holder using:
- M4 Wing Nut x 1 pc.

6. Install RF cables

RF cable install instruction is shown in Figure 6.1

Connect +45° polarization to CH1, -45° polarization to CH0.

Invert the channel polarization on paired device:
Connect +45° polarization to CH0, -45° polarization to CH1.

Fit back the MikroTIK Radio cover.

Important:
- RF Cables connector tightening torque must be approximately 0.5 Nm.