

DIY Replacement Radome for Symmetrical Horn Antennas Gen 1

Some units of the first generation of the Symmetrical Horn Antenna product group may experience radome material degradation after an extended period of time. The affected product IDs are: SH-TP-5-30, SH-TP-5-40, SH-TP-5-50, SH-TP-5-60, SH-TP-5-70, SH-TP-5-80, SH-TP-5-90, SH-CC-5-30, SH-CC-5-40, SH-CC-5-50, SH-CC-5-60, SH-CC-5-70, SH-CC-5-80, and SH-CC-5-90. This product group is end-of-life and replacement parts are no longer available. We recommend the following options for radome replacement.

Option 1: Plastic sheet cutout

Cut out a circular disk with corresponding diameter (see table below) from ABS or UV resistant PET plastic sheets with suitable thickness range of 0.8 - 1 mm (0.031 - 0.039 in). Material example [HERE](#). Use the original flange to secure the radome position. We do not recommend using Polycarbonate material.

Diameters of radome for all Symmetrical Horn Gen 1 antennas						
30°	40°	50°	60°	70°	80°	90°
∅ 195 mm (7.67 inch)	∅ 179 mm (7.04 inch)	∅ 139 mm (5.47 inch)	∅ 154mm (6.06 inch)	∅ 134 mm (5.27 inch)	∅ 149 mm (5.86 inch)	∅ 153 mm (6.02 inch)

Option 2: 3D printed radome

3D print using ABS or PET-G materials. Layer height should be 0.2 mm (0.0078 in) max, fill density 70 - 100 %. When installing the radome on the antenna, you do not need the original flange to secure its position. Push the radome into the aperture (photo 1) and secure it by a screw inserted through the drain hole (photo 2).

3D models ready for print are [HERE](#).

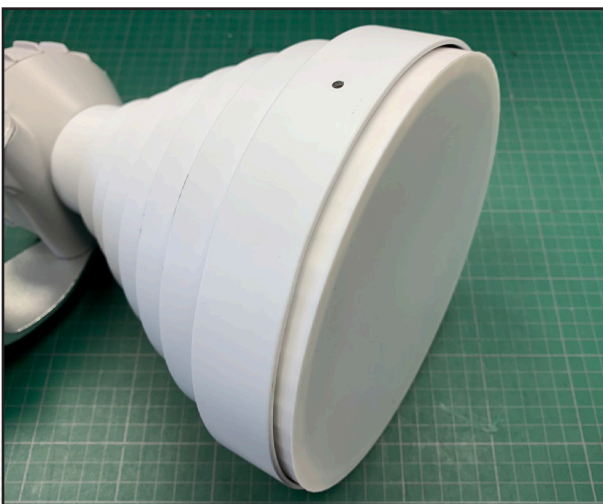


photo 1



photo 2