

Water Leakage into VDC-455, VDM-455,  
VDC-485, and VDN-495

July 27, 2007

<b>Issue Severity:</b>	<b>Products Affected:</b>
<input type="checkbox"/> High: Act immediately	<ul style="list-style-type: none"><li>• VDA-445WMT Wall Mount used on VDC-455, VDM-455, VDC-485, and VDN-495</li></ul>
<input checked="" type="checkbox"/> Medium: Bosch Security Systems strongly recommends you take the action(s) described below.	<ul style="list-style-type: none"><li>• VDA-455PMT Pole Mount used on VDC-455, VDM-455, VDC-485, and VDN-495</li></ul>
<input type="checkbox"/> Low: Advisory	

## 1.0 Issue

Tolerances on the cap of the VDA-445WMT Wall Mount and the VDA-455PMT Pipe Mount may cause water to leak into the VDC-455, VDM-455, VDC-485, and the VDN-495.

There is a tolerance risk on two dimensions in the Wall Mount cap:

- The diameter of the cap is close to its maximum.
- The length of the pillars, on which the camera is mounted, is close to the minimum end of the permitted tolerances.

The combination of the two tolerances causes the metal ring around the dome bubble to get blocked on the cap before it seals the bubble onto the camera base.

The root causes of the tolerances risks are:

- The thickness of the paint layer added to the machined diameter causes the total diameter of the cap to be close to the maximum.
- The length of the pillars is close to the minimum due to the de-burring process.

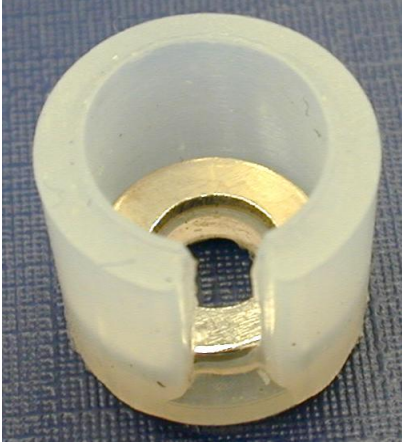
Products with the potential problem have no special markings nor have clips on the three pillars onto which the FlexiDome cameras are mounted.

## 2.0 Resolution

It is recommended to add clips on the pillars inside the cap to reduce the risk of water ingress when used in applications exposed to rain or water sprays. Clips and washers for this modification are available through Bosch Security Systems Technical Support.

To modify the VDA-445WMT Wall Mount or the VDA-455PMT Pipe Mount:

1. Put a washer inside the clip (see photo) and slide the clip with washer onto the pillar.



2. Make the connections and mount the FlexiDome onto the cap.
3. To check that the dome bubble makes a watertight seal, firmly push down on the metal dome ring with the bubble before tightening the three security screws. The seal is correct when the dome ring can be pushed down somewhat (compressing the rubber sealing ring) and springs back when released.
4. Tighten the security screws.

To correct this issue for new deliveries of the VDA-445WMT Wall Mount and the VDA-455PMT Pipe Mount:

- All new deliveries will have a corrected cap diameter. As a temporary solution, the length of the pillars will be corrected by adding clips onto the pillars.



- As final solution, the length of the pillars in the mould and the de-burring process will be optimized. Those units are marked with a blue dot near the type label inside the cap and on the box.
- Perform checks for proper fitting