
Manual Back-driving of the motors without power **14 Sept 2015**

Issue Severity: <input type="checkbox"/> High: Act immediately <input checked="" type="checkbox"/> Medium: Bosch Security Systems strongly recommends you take the action(s) described below. <input type="checkbox"/> Low: Advisory	Products Affected: MIC7000 series, MIC550/500 series, MIC612 series, MIC400 series
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If the pan or tilt stages of a MIC series camera is physically moved while camera is in an unpowered state, it may exhibit a jerky response or even enter a locked-up condition as a result of backdriving the internal motors.

This is not an indication of a quality or reliability issue with the specific camera.

1.0 Issue

The motor/gearhead combinations used in the MIC cameras were designed to provide smooth pan/tilt movement of the camera during *powered* operation. The gearheads were not specifically designed to be manually “back driven” under any circumstance.

Although it might be possible on some unpowered units, there is no guarantee that “back-driving” is possible on all units. Some units may even enter a “locked-up” mechanical state.

On units that become “locked-up”, it is important to avoid overpowering the unit, since excessive force may cause permanent damage to the camera.

The “locked-up” state does not harm the MIC. It will return to normal operating conditions once it is powered up.

2.0 Resolution

If an attempt to back-drive a unit results in a “locked-up” condition, first apply power to the camera. Next, using either the web interface (on IP cameras), joystick, or other controlling hardware/software, operate the pan/tilt controls of camera in the normal way.