

# Chemical resistance of AXIS I7020 Network Intercom to common cleaning agents

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# 1 Introduction

Network intercoms can be used in environments where hygiene requirements are rigorous or in cleanrooms. Cleaning could be required daily or even several times a day.

This white paper presents the recommended cleaning and disinfectant procedure for AXIS I7020 Network Intercom and shows the testing that Axis has done to verify that the intercom withstands this procedure.

## 2 Recommended cleaning

The recommended cleaning procedure involves chemical wipedown using a soft cloth with either isopropanol (IPA), sodium hypochlorite (a chloride-based bleach), or hydrogen peroxide, mixed with water. These chemical solutions are all commonly used as cleansers or disinfectants.

It is up to the user to ensure that their cleaning products are based on the recommended chemicals and don't contain substances that can have a negative effect on the intercom. If you need to use a spray product, spray on a soft cloth and wipe the intercom with the cloth.

## 3 Cleaning simulation tests

We've performed tests to simulate repeated daily cleaning over several years.

The chemicals we've used are:

- Isopropanol (70%)
- Hydrogen peroxide (3%)
- Sodium hypochlorite (< 5%)

Samples of the AXIS I7020 Network Intercom front plate were mounted in a piece of automated test equipment that repeatedly swiped the samples with a soft cloth saturated with the selected chemical. The swipes were done using a pressure typical for cleaning, and the cloth was resaturated regularly. The samples were tested for a minimum of 5500 cycles, which corresponds to multiple wipedowns per day for five years.



*Setup for the cleaning simulation. The samples were swiped with a cloth mounted on an automatic movable arm. The cloth was regularly resaturated with the chemical.*

After completed testing, we evaluated the samples for scratches, cracks, discoloration, wear of logotype, and other defects.

## 4 Test results

The test results showed that AXIS I7020 Network Intercom can withstand cleaning multiple times per day for at least five years with the tested chemicals.

The front plate of the intercom withstands regular and frequent chemical wipedown with a soft cloth. There is no chemical reaction between the front plate material and the recommended cleansers. Even with daily chemical wipedowns the physical integrity of the intercom is maintained.



## About Axis Communications

Axis enables a smarter and safer world by improving security, safety, operational efficiency, and business intelligence. As a network technology company and industry leader, Axis offers video surveillance, access control, intercoms, and audio solutions. These are enhanced by intelligent analytics applications and supported by high-quality training.

Axis has around 5,000 dedicated employees in over 50 countries and collaborates with technology and system integration partners worldwide to deliver customer solutions. Axis was founded in 1984, and the headquarters are in Lund, Sweden.