

Introduction and integration tips for Axis C17-series Network Display Speakers



AXIS C17-series Network Display Speakers

AXIS C17-series Network Display Speaker is a *three-in-one* communications device with a powerful speaker, a bright signaling LED and a Text display which can be used for communication and help in safety and operational efficiency use cases.

- Light and audio and text in one IP-based device
- Supports VAPIX®, SIP, and MQTT
- Max sound pressure level: 110 dB
- Supported by AXIS Audio Manager Pro and other mass communication platforms. See full list on axis.com.

Integration

Use cases for integration/operation

This product can be used both as stand-alone device/devices or on a system level using system APIs for AXIS Audio Manager Edge and pro (coming later, not available at launch).

Standalone:

The device can be set up as a stand-alone device using the built-in event engine.

Here, you can set up different events, triggered using I/O's or virtual inputs which can be activated from another system/device using VAPIX commands.

The speaker has two built-in microphones enabling two-way communication in Full duplex with echo cancellation, Half duplex or Simplex public address via SIP, VAPIX, RTSP in many different audio codecs.

Manual trigger of events from the operator:

You can manually activate/deactivate AXIS C17-series Network Display Speaker from an operator interface. This can be done in many ways depending on your way of integration, but you need to add the ability to turn the pre-configured triggers/events on and off based on user input.

Event based:

AXIS C17-series Network Display Speaker can utilize event triggers, such as motion detection from a camera, if a panic or alarm button is pushed, a door is forced, or a storage disk is full. The products Signal LED, Speaker or display can be triggered to act depending on the end user's requirements. This can be done in many ways depending on your method of integration.

Integration paths

VAPIX

AXIS C1710 supports the [siren and light API](#) described in the VAPIX documentation. The essential part to implement is the ability to start and stop the profiles. Profiles can be created and configured from the product's web GUI. Depending on your integration you may want to include the ability to create and configure profiles from your system.

Once you have configured one device, you can use [AXIS Device Manager](#) to import the configuration and then to export it to a large number of strobe sirens in bulk.

SIP

AXIS C1710 can be used in a SIP configuration, which allows you to trigger events and start 2-way calls via SIP. You can use a simple peer-to-peer setup or use SIP via a PBX server, both are available for integration. How to set it up is described in the user manual and more information about SIP is available in [Axis SIP Introduction white paper](#).

API

The product also has a number of supported device APIs, through which a system could trigger actions on one or several devices.

Available APIs:

- [Text on display message](#) (new)
- [Mediaclip](#)
- [Signaling LED](#) (siren and light API)

Full list of APIs is available in the VAPIX Library.

For partners integrating this device without using AXIS Audio Manager Edge or Pro, there are **APIs available** on <https://developer.axis.com/> along with the device events in the device's own web interface.

This opens the possibility to use the Text display, Signaling LED and Speaker in unique ways.

The display can be triggered by an event in a camera, providing an informative message, or a system can communicate relevant information relating to waiting times in a lobby, upcoming events or warning messages.

The message can either be a "static" pre-configured text on the device or by using the API a unique text/value can be communicated on the display.

NOTE: *Important to note is that the API for the display has no support for coexistence. If used for critical installations, it must be guaranteed that only one application controls the display. The API is marked as beta and may change in the future. Contact Axis for more information.*

MQTT

You can use the MQTT API or the Web GUI of the device to configure MQTT to enable the device to publish or subscribe to events.

- [MQTT knowledge base](#)
- [MQTT Event Bridge API](#)
- [Device integration with MQTT](#)