Firmware
LHN-UC15L-SIP | LHN-UC15W-SIP | AMN-P15-SIP

BOSCH

en   Release Notes 2.1.869

Table of Contents

1   Scope

The release notes give an overview of new functionality compared to the previous release. It reports known issues and possible workarounds.

2   Release overview

Release	Release Date	Release Comments
1.0.233	2023-04-04	Initial version
2.0.800	2024-02-06	Adding integration with Video Management Systems (VMS) via ONVIF
2.1.869	2024-04-09	Adding possibility to have the same HTTP(S) communication port for both ONVIF and WEB-GUI / API

2.1   Supported products and related FW

The FW is available as a MSI installer which will install the FW file itself in the correct location of the Firmware Upload Tool (FWUT) version 9.10 or above. For more information please see the user manual. Below table provides the overview per product.

Product	MSI installer	FW file
LHN-UC15W-SIP	Bosch_LHN15SIP_Firmware_V2_1_869.msi	LHN15SIP_2_1_869_id4114_4k.capfw
LHN-UC15L-SIP		
AMN-P15-SIP	Bosch_AMN15SIP_Firmware_V2_1_869.msi	AMN15SIP_2_1_869_id4116_4k.capfw

2.2   Release 1.0.233

Below main features & Improvements overview

Features	LHN-UC15W-SIP/ LHN-UC15L-SIP	AMN-P15-SIP
VoIP call via SIP – one way (speaking to the product)	✔	✔
VoIP call via SIP – two way	✔	
Direct Bosch camera integration via Alarm Task Script Language (ATSL)	✔	✔
Store and play of audio messages	✔	✔
Message activation via physical GPI, virtual GPI or scheduler.	✔	✔
Message activation via noise trigger	✔	
Digital Signal Processing (EQs, Audio Delays, Noise Gate)	✔	✔
Ambient Noise Control for automatic adaption of level	✔	
REST-API Interface for device control and status indication	✔	✔
Configuration via web browser	✔	✔

2.3   Release 2.0.800

Below main features & Improvements overview

Features	LHN-UC15W-SIP/ LHN-UC15L-SIP	AMN-P15-SIP
ONVIF backchannel (talk-down) support for integration into Video Management System (VMS)	✔	✔
ONVIF streaming (talk-back) support for integration into Video Management System (VMS)	✔	
ONVIF output support for integration into Video Management System (VMS)	✔	✔
Support of SIP cloud-based server providers	✔	✔
SIP non-audio packets time-out configurable in the WEB-GUI	✔	✔
NTP public/internet server supported	✔	✔
WEB-GUI improvements/enhancements	✔	✔

2.4   Release 2.1.869

Below main features & Improvements overview

Features	LHN-UC15W-SIP/ LHN-UC15L-SIP	AMN-P15-SIP
Possible to have the same HTTP(S) communication port for both ONVIF and WEB-GUI / API	✔	✔
Connection to cloud SIP servers is now also supported with static networks settings.	✔	✔
Switching off the microphone switch is now immediately reflecting in the device discovery from ONVIF.	✔	

3   Upgrading the Firmware

Existing IP Horns and Amplifier modules can be updated to the new Firmware 2.1 (FW 2.1.869). Depending on the installed firmware the existing configuration will be either migrated or back to factory default.

Installed version	Upgradable to FW 2.1.869	Configuration
FW 0.3.4	Yes	Back to factory default
FW 1.0.233	Yes	Kept and migrated to the new version
FW 2.0.800	Yes	Kept and migrated to the new version

4   Known Issues

- When starting the firmware update process with the Firmware Upload Tool (FWUT), in seldom cases it takes more than 30 seconds until a progress (green bar) is indicated. Please have patience in case you see no progress.

- Files in .wav format with 44.1 kHz sampling rate in very seldom cases may sound distorted. To have a clear audio distribution, please use other formats or .wav files with 48 kHz sampling rate
- Short Audio message will be played twice when activated via scheduler. In case you have scheduled messages below 2s, add silence at the end.
- If uploading a message would exceed the available memory, the message is not stored although indicated
- The audio latency of the device itself may vary by a maximum of 30 ms compared to other devices.
- If multicast traffic is exceeding 150Mbit/s on the network port, audio might stop working. After the multicast traffic has been reduced a reboot via the WEB-GUI will recover the audio.