



# TeamConnect Bar

Release notes - version 2.1.1



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# 1. System overview & requirements

## TeamConnect Bar

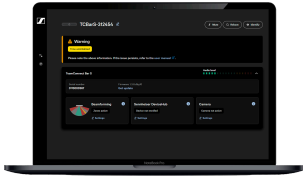


All-in-one conference system for small to medium-sized meeting rooms.

## Firmware update

- The TeamConnect Bar firmware update requires the use of one of the Sennheiser control applications (see below).

## Control applications

The TC Bar can be configured via various software applications, namely:

Application	Description
<b>Local Web UI (LUI)</b> 	LUI is a browser-based interface for easy and quick device configuration in the local network and is accessible over the device IP address or host name. LUI is available as of firmware version 2.0.0. <ul style="list-style-type: none"><li>• Online manual: <a href="#">Local Web UI</a></li></ul>
<b>DeviceHub</b> 	Cloud-based platform for managing and monitoring Sennheiser AV devices across locations. DeviceHub compatibility is available as of firmware version 2.0.0. <ul style="list-style-type: none"><li>• Online manual: <a href="#">DeviceHub</a></li><li>• Product info: <a href="https://sennheiser.com/devicehub">sennheiser.com/devicehub</a></li><li>• Software: <a href="https://devicehub.sennheiser.com">https://devicehub.sennheiser.com</a></li></ul>
<b>Control Cockpit</b> 	On-premise centralized management software that allows you to configure your TC Bar. <ul style="list-style-type: none"><li>• Online manual: <a href="#">Control Cockpit</a></li><li>• Product info: <a href="https://sennheiser.com/control-cockpit">sennheiser.com/control-cockpit</a></li></ul>



## 2. Current release

Latest information on the TC Bar firmware updates, including detailed descriptions of features, bug fixes, and known issues.

### Version 2.1.1

#### New features

##### IEEE 802.1X support

- Starting with firmware version 2.1.1, TC Bar devices support IEEE 802.1X for network access control.
- IEEE 802.1X enables identity-based access to secured networks by requiring successful authentication before the device can join the network.
- For more information on the IEEE 802.1X protocol topic, please refer to the chapter [IEEE 802.1X](#).

##### Firmware Update via DeviceHub Cloud

- The TC Bar S & M firmware can now be updated via Sennheiser DeviceHub cloud management.
- For more information, please refer to the chapter [Updating device firmware](#) of the DeviceHub manual.

##### In-Use status indication

- DeviceHub and Local Web UI (LUI) can now display an **In-Use** status indication by monitoring the TC Bar call state & media playback.

#### Improvements

##### Network ports closed

- The network ports 53 (DNS) and 68 (DHCP) have been closed for UDP and TCP access.

##### New NTP server presets added

- Two NTP servers have been added as presets:
  - [time.cloudflare.com](https://time.cloudflare.com)
  - [time.nist.gov](https://time.nist.gov)

##### New microphone input level in LUI and DeviceHub

- The input level is now calculated from the internal microphone and connected Dante® microphones.



### **New microphone input level and beam location in DeviceHub**

- The beam location and mic input level are now available in DeviceHub with a 60-second timer.

### **Bug fixes**

- MAC addresses are displayed correctly in upper-case characters.
- Camera AI modes are now saved correctly in MTR calls and will be reused on the next call.
- Camera antiflicker frequency (Auto/50 Hz/60 Hz/Off) is no longer affected by other apps or operating system settings.
- Bluetooth on/off state handling is now fixed for specific restart and factory reset edge cases.

### **Known Issues**

- Occasional clicking noises may occur on Dante® outputs from TC Bar S or M during audio transmission, particularly when encryption is enabled. The issue is under investigation.
- Occasionally, the camera LED lights up several hours after the last camera usage in an MTR setup, even though the camera is not actually active in this incorrect state indication. Restarting the TC Bar or using the camera in an application or call corrects the state indication.



## 3. Previous releases

Information on the previous versions of the TC Bar firmware updates, including detailed information on included features, bug fixes, and known issues.

### Version 2.0.2

#### New features

##### Local Web UI support

- Starting with firmware version 2.0.2, the Local Web UI is available as an integrated control application of all TC Bar devices.
- The Local Web UI provides a browser-based interface for configuring and monitoring system functions and can be accessed via the device IP address. The IP address can be obtained from Control Cockpit or accessed directly if the device is located in the same network.

##### DeviceHub support

- Starting with version 2.0.2, support for DeviceHub is available, enabling centralized management and monitoring of TC Bar devices through the cloud-based platform. Before enrolling a unit for cloud-based management, ensure it is running the latest firmware and has a correct network configuration so it can be reliably managed and monitored after enrollment.
- For more information, please refer to [sennheiser.com/devicehub](https://sennheiser.com/devicehub).

##### Permanent maximum speaker volume limit

- This setting limits the audible output by scaling the device's maximum acoustic level down to the selected value, which is lower than the device's technical maximum. Due to this real-time scaling, users can still adjust the volume freely between 0% and 100%, but the actual maximum level is restricted by the selected limiter value.

#### Improvements

##### Volume synchronization behavior

- Improved volume synchronization mechanism to better align the audio level between the user device and the TC Bar.



### **Bug fixes**

- Fixed an issue where the Bluetooth® sound prompt sometimes did not play when a new device connected to the TC Bar after the previous device had disconnected.
- Fixed a known issue where, in certain network environments with advanced traffic management, Dante® operation in split mode could cause an audible echo for far-end participants.

### **Known issues**

- Occasional clicking noises may occur on Dante® outputs from TC Bar S or M during audio transmission, particularly when encryption is enabled. The issue is under investigation.



## Version 1.3.8

### New features

#### Option to disable 'Deep Sleep Mode'

- Introducing configurable energy-saving modes, allowing faster wake-up or reduced power usage based on the preferred setting.
- The default energy-saving mode has been changed from Low Power to Eco mode, enabling shorter wake-up times and continuous network availability out of the box.

#### Default camera mode

- Added configurable default camera modes, allowing AV admins to define a consistent start view for every call and reduce manual adjustments.

#### Continuous Dante® stream for mic signal (also when not in conference)

- Added an option to always keep Dante® audio streaming active, even outside of calls, for integration with external systems or assistive listening.

#### Dante® audio encryption

- Introducing support for encrypted Dante® streams, providing enhanced security for sensitive environments and compliance with modern IT policies.

#### Improved brute force protection

- Improved handling of failed connection attempts to enhance system security and resilience against misuse.

#### Enhanced security during firmware update process

- Refined firmware update process to align with updated authorization and verification rules.



Downgrading firmware is no longer supported; only updates to the same or newer versions are allowed.

### Improvements

#### Video optimizations

- Optimized the AI camera modes with improved zoom limits, framing logic, and reaction timing for a more consistent and natural meeting experience.



#### **Visual feedback when waking from network standby**

- Added visual LED feedback when waking from standby, providing a clear indication that the device is becoming active.

#### **MS Teams V5 certification**

- Fulfilled Microsoft Teams version 5 certification, ensuring full compliance and optimized performance with the latest Teams release.

#### **Removal of 'Manual Exposure' feature**

- Removed the "Manual Exposure" option from camera settings to ensure a consistent frame rate and simplify configuration.

#### **TC Bar M network stability improved**

- Optimized interface handling in TC Bar M split mode, including enhanced routing capabilities that allow communication from different network domains.

#### **TC Bar M AEC double-talk performance improvement**

- Enhanced Acoustic Echo Cancellation (AEC) for better double-talk performance in conference calls.

### **Bug fixes**

#### **Volume sync not working properly**

- Fixed inconsistent volume synchronization between TC Bar and host PC volume, ensuring reliable and accurate level display and control.

#### **Unexpected behavior of the camera after pan/tilt**

- Fixed an issue where the camera reset to full field of view after pan/tilt, instead of continuing from the last used position.

#### **DisplayLink® visible on USB even if disabled in CC (HDMI)**

- Fixed an issue where DisplayLink® was temporarily exposed despite HDMI® being disabled.

#### **HDMI® outputs active during boot while HDMI® is disabled in Control Cockpit**

- Fixed an issue where HDMI® output was briefly active during boot, even when disabled.

#### **Sometimes the TC Bar cannot be found in phone list when in Bluetooth® pairing mode**

- Fixed an issue where TC Bar did not reliably enter Bluetooth® pairing mode after multiple connect/disconnect cycles.



#### **UAC downstream issues (interruptions/delays/artifacts)**

- Fixed occasional playback dropouts and stuttering during conferences.

#### **TC Bar M cannot disable Bluetooth®**

- Fixed an issue where Bluetooth could not be disabled after streaming audio in certain scenarios.

#### **Second Mic slider removed**

- Removed the second mic slider visible in the settings of the host computer's operating system.

#### **Known issues**

- Occasional clicking noises may occur on Dante® outputs from TC Bar S or M during audio transmission, particularly when encryption is enabled. The issue is under investigation.
- Echo may occur during Dante® operation in split mode if TC Bar M is deployed in a network with advanced traffic management and multicast control mechanisms. In some setups, network behavior can cause timing shifts in the Dante® domain, leading to audible echo on the far end. Possible workarounds:
  - ▶ Use single domain mode.
  - ▶ Disconnect Ctrl port when using split mode.
  - ▶ Deactivate IGMP snooping on your Dante® network.



## Version 1.2.0

### New features

#### Virtual commands - remote control for 3rd systems

- The third-party API has been extended to support all IR remote control functions, enabling integration with external media control systems.

#### IR remote control deactivation

- A new option has been added in Control Cockpit to disable the physical IR remote control.

#### Button to disable internal microphones

- Added Internal Microphone Mute to mute only the TC Bar's internal microphone.
- Renamed the former Microphone Mute function to All Microphones Mute, which mutes all internal and external microphones.

#### Noise suppression configuration

- Added configuration settings for Noise Suppression in Control Cockpit to detect and suppress unwanted static background noise.

#### Noise gate configuration

- In addition to existing threshold and hold time settings, the Noise Gate Range can now be configured to define the degree of noise suppression below the set noise gate threshold.

#### Default video settings optimization

- Backlight compensation set to activated by default.
- Sharpness set to 3 by default.

### Improvements & bug fixes

- Fixed an issue where the TC Bar M could produce continuous echo in configurations using the TCC M and Microsoft Teams Room (MTR) after extended usage.
- Resolved an issue that caused prolonged echo on the far end when Bluetooth was enabled while using the internal microphone.
- Fixed a problem where the TC Bar M could generate echo after resuming from standby mode.
- Addressed an occasional issue where the Ethernet interface failed to initialize on startup in split mode, requiring a reboot to restore network connectivity.
- Various bug fixes and performance improvements for enhanced stability and system reliability.



### Known issues

- On the TC Bar M, DisplayLink may automatically re-enable after the device resumes from standby, even if it still appears as deactivated in Control Cockpit.
- If the TC Bar has firmware < 1.2.0, it must be updated before users can use the microphone mute features via Control Cockpit.
- Echo effects may occur with external Dante? microphones using managed network environments. This is due to IGMP and PTP issues, which elect the TC Bar M as clock leader instead of a clock follower. This leads to signal runtime shifts in the Dante? network, causing the automixer and the AEC to produce echo effects on the far end. This can be fixed by one of the following actions:
  - ▶ Use single Domain Mode.
  - ▶ Disconnect the Ctrl port when using split mode.
  - ▶ Deactivate IGMP snooping on your Dante? network.



## Version 1.1.7

### Features

#### Active mic channel indication in Control Cockpit

- In the “Automix Priority” box, the currently active channel is indicated by a green dot above its channel setting.
- Sound from the speakers will not affect channel indication.

### Improvements & bug fixes

- TC Bars can now be claimed in the Dante® Domain Manager using “enroll device by IP”.
- Dante® packets are now isolated from the control network.
- The TC Bar M hostname has been improved with an interface, e.g. “TCBarM-0111002345-Control”.
- The Dante® Near End Stream will stop if USB is disconnected.



## Version 1.0.3

### Bug fixes

- The issue preventing the use of Dante® on TC Bar M in Single Domain Mode has been fixed.



## Version 1.0.0

- Initial firmware release v1.0.0 for TeamConnect Bar S and TeamConnect Bar.

