



Code 3300

SQope

Digital, Binaural Headset

OVERVIEW

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In combination with the HEAD B2U app, SQope provides the most straightforward method for creating, storing, and playing back binaural recordings. Using the HEAD B2U app enables you to control recordings on a mobile device using the familiar, touch-based interface. The app is available via the Apple App Store for iOS/iPadOS.

After installing the app, connect SQope to your mobile device via USB. Start the app to begin recording immediately. SQope is powered via the USB connection, enabling fully autonomous operation and unrestricted mobility. Your recordings are stored on the mobile device and can be played back via SQope or transferred to a computer for subsequent analysis.

You can connect SQope to the mobile frontends SQadriga III and SQobold. Using SQadriga III, the SQope audio channels can be recorded in addition to all other available channels (such as analog audio channels, GPS, video, bus systems, and pulses). With SQobold, recording is supported for the two SQope audio channels as well as the GPS and video channels.

SQope is also ideally suited for use with APR 100 – Compact Analysis Project (Code 50100), enabling the analysis of stored measurements with just a few clicks.

Recordings and playback are equalized by SQope itself, completely independently of a mobile device or a computer. The required equalization filters are preinstalled, ensuring correctly equalized recording and playback from the outset.

KEY FEATURES

Binaural recording and playback

Recording equalization *Independent of Direction* (ID)

Playback equalization *Independent of Direction* (ID), *Free Field* (FF), and *Diffuse Field* (DF), controlled via the playback software

Hardware limiter (configurable via HEAD Companion)

Measurement range of 130 dB_{SPL} (124 dB + 6 dB headroom)

Power supply and connection to a smartphone or tablet (iOS/iPadOS) or a Windows computer via the USB-C connection

Binaural recording and playback using smartphones and tablets (iOS/iPadOS) via the HEAD B2U app

Transferring recordings to a cloud storage

Insensitive to emissions from mobile devices

Removable windscreen against low-frequency wind noise

High wearing comfort

APPLICATIONS

Acquisition and analysis of noise complaints

Measurement of noise events in the environment

Soundwalks and soundscapes

Academic education

DETAILS

Convenient Binaural Recording and Playback

The digital, binaural SQope headset enables binaural recording and playback with unprecedented ease. Operation requires only a smartphone or tablet running iOS or iPadOS and the HEAD B2U app—no additional measurement equipment, no tripods, no setup or dismantling. Regardless of location, recordings can be started or played back at any time. This is delivered in the proven binaural quality that we have been offering and continuously developing for decades.

Simply install the HEAD B2U app from the App Store on your smartphone or tablet, connect SQope to your device, put on SQope, and launch the HEAD BSU app—you can start recording immediately. Powered via the USB connection, SQope operates independently, without additional devices or an external power supply required.

Recordings are stored on your device. The Recordings list provides access to stored recordings, which can be reproduced with aurally-accurate playback via SQope using the Player integrated into the HEAD B2U app. During playback, as during recording, level meters and diagrams of the time signal and a real-time-calculated FFT are displayed.

Within the Recordings list, recordings can also be renamed, deleted, marked as favorites, or uploaded to cloud storage via the Share function. Subsequently, the recordings are made available for download from the respective cloud storage and can, for example, already be analyzed by colleagues using ArtemiS SUITE while additional recordings are being performed.

In addition, the HEAD B2U app can record the GPS information provided by the smartphone or tablet and save it together with the audio signal from SQope in the recording file. Based on this GPS information, you can display the position or the route of the measurement in the map view of ArtemiS SUITE



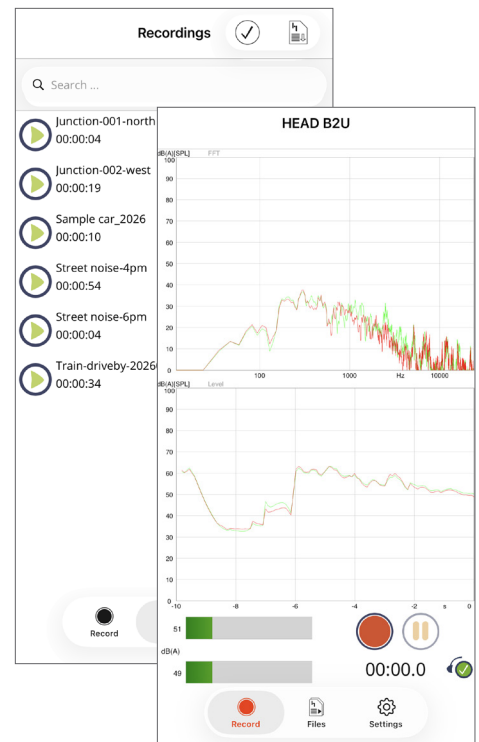
The HEAD B2U-App—Effortless Binaural Audio

The HEAD B2U-App is available for iOS/iPadOS via the App Store and, when used with a smartphone or tablet, offers maximum flexibility. The HEAD B2U-App enables you to perform high-quality binaural recordings and aurally-accurate playback of stored recordings.

Even without an active recording, the HEAD B2U app displays the incoming signal as a time signal and as a real-time-calculated FFT in diagrams. This ensures continuous, precise information on the development of sound events in the surrounding environment. Upon startup, the HEAD B2U app checks whether binaural recordings and aurally-accurate playback are available—for example, when SQope is connected—and indicates the status via an icon.

The HEAD B2U app uses familiar operator controls to ensure intuitive operation and immediate user orientation. All app functions are designed to enable rapid and efficient completion of typical measurement tasks, featuring familiar control buttons, prominent level meters, and a clear display of the recording duration.

Stored recordings are clearly listed in the Recordings list under an individually assigned name as well as the recording duration and the date and time of recording. Simply open the Recordings list and start playback of the desired recording. Additional functions, such as deleting, renaming, and sharing recordings, are available in the Recordings list. Recordings can be marked as favorites so they appear at the top of the Recordings list.



SCOPE OF DELIVERY

- › SQope – Digital, Binaural Headset
- › CUSB V.1.5 (Code 5474-1.5)
 - Cable USB-C to USB-C, 1.5 m
- › CUSB IX.1.5 (Code 9897-1.5)
 - USB-A cable to USB-C, 1.5 m
- › HSC V.4
 - Bag for SQope and accessories
- › Windscreen
- › Calibration adapter

OPTIONAL ACCESSORIES

- › H0162
 - USB-A adapter to lightning

TECHNICAL DATA

GENERAL INFORMATION

Supply connection	USB Type-C
Supply voltage	5 V _{DC}
Max. power consumption Operation – device alone Standby	0.275 W 0.15 W
System sampling rate	48 kHz
Temperature Operation Storage	-20 °C–+50 °C (-4 °F–+122 °F) -20 °C–+60 °C (-4 °F–+140 °F)
Relative humidity	0%–90%, non-condensing
Weight	220 g
Cable length	1.5 m

COMMUNICATION INTERFACES

USB Device

Plug connector	1 x USB Type-C
USB specification	USB 2.0

ACOUSTIC INPUT

Microphone

Inherent noise	27 dB(A) _{SPL}
Frequency range	28 Hz–20 kHz
Maximum sound pressure level	130 dB _{SPL}

ACOUSTIC OUTPUT

Headphones

Max. sound pressure level	110 dB _{SPL} (at 1 kHz, 1 V _{rms})
Total Harmonic Distortion (THD)	0.1% (at 100 dB _{SPL})
Transmission range	28 Hz–17.1 kHz
Transducer principle	Dynamic, open
Ear coupling	On-ear

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