RC X.1 (Code 9850)

Remote control with optional wireless module for starting and stopping recordings and activating real-time filters

Variants: RC X.1-V1 (9850-V1)
RC X.1-V2 (9850-V2)

Extension: RC X.2 (9851)
Wireless module

Overview

The wired remote control RC X.1 is available in several variants and can be used for starting and stopping recordings and activating real-time filters.

RC X.1 can be connected to a computer via USB and activates recordings via the Data Acquisition Module of ArtemiS SUITE (ASM 04) with any frontend supported by HEAD acoustics. Connected to SQuadriga III and SQobold directly, RC X.1 can be used to start and stop recordings in stand-alone mode.

Furthermore, in connection with a computer running ArtemiS SUITE, the RC X.1 allows real-time filters to be enabled or disabled via the Advanced Filters Module (ASM 19) and the SQuadriga II frontend.

The variants of the RC X.1 are applied together with SQuadriga II directly or via the SVA II.0 multi-function adapter.

For applications not allowing direct access to the RC X.1, it is also possible to use the wireless module RC X.2. The wireless module allows all versions of the RC X.1 to be radio-controlled. A pairing can be established between RC X.2 and RC X.1 allowing several pairs to be used simultaneously without affecting each other.

Features

- Wired remote control with optional wireless module for activating recordings or real-time filters

Remote control RC X.1

- USB plug for direct connection to a PC, notebook, tablet PC (Windows), SQobold, or SQuadriga III

Variants

- RC X.1-V1
  - Binder plug for direct connection to SQuadriga II via multi-function adapter SVA II.0
- RC X.1-V2
  - LEMO plug for direct connection to SQuadriga II (AUX 1)

Extension

- RC X.2
  - Wireless module for the remote control of the RC X.1 / RC X.1-V1 / RC X.1-V2

Applications

- Starting and stopping a recording
  - with any frontend supported by HEAD acoustics via the Data Acquisition Module of ArtemiS SUITE (ASM 04)
  - with SQuadriga III, SQuadriga II, and SQobold in stand-alone mode
- Activation and deactivation of real-time filters with the Advanced Filters Module of ArtemiS SUITE (ASM 19) in combination with SQuadriga II
- Radio-controlling via the wireless module RC X.2

Functions

- Easy and safe operating with a the large function button without the need for looking at the computer screen, SQuadriga III, SQuadriga II, or SQobold,
- Remote controlling of a measurement or filtering
- Visual feedback

Wireless module RC X.2

- Connecting (pairing) a wireless module RC X.2 with one specific RC X.1 (or a variant)
- Radio protocol with a range of up to 10 meters (depending on environment)
- Visual feedback

Recommended hardware from HEAD acoustics

- PC / notebook / tablet PC (Windows) with ArtemiS suite and frontends from HEAD acoustics, e.g. HEAD*lab*, the modular multi-channel frontend system

- SQuadriga III (Code 3324) Mobile recording and playback system with sound level measurement function as a stand-alone system or USB frontend

- SQuadriga II (Code 3320) Mobile recording and playback system

- SQobold (Code 3302) Mobile 4-channel recording and playback system

- SVA II.0 (Code 3360) Multi-function adapter for SQuadriga II

Recommended software from HEAD acoustics

- ArtemiS suite Basic Framework (Code 5000)

- ArtemiS suite Data Acquisition Module (Code 5004)

- ArtemiS suite Sound Engineering Module (Code 5019)

Scope of supply

- RC X.1 (Code 9850) Remote control for connection to a PC, SQuadriga III, and SQobold (USB)

  or

  Variant 1:
  RC X.1-V1 (Code 9850-V1) Remote control for connection to SQuadriga II via multi-function adapter SVA II.0 (Binder)

  or

  Variant 2:
  RC X.1-V2 (Code 9850-V2) Remote control for direct connection to SQuadriga II (LEMO)

Extensions (optional)

- RC X.2 (Code 9851) Wireless module for controlling the RC X.1 / RC X.1-V1 / RC X.1-V2
  - CUSB III.1 (Code 5479-1) Cable USB (type A) ↔ USB (micro), 1 m (39.4")

Technical Data

RC X.1 / RC X.1-V1 / RC X.1-V2

Interfaces	
RC X.1:	USB 2.0
RC X.1-V1:	Binder 7-pin
RC X.1-V2:	LEMO 10-pin
Connections	
RC X.1:	PC / notebook / tablet PC (Windows) / SQobold / SQuadriga III
RC X.1-V1:	Multi-function adapter SVA II.0 (SQuadriga II)
RC X.1-V2:	SQuadriga II (AUX 1 input)
Input voltage	
RC X.1:	5 V (the power is supplied via USB)
RC X.1-V1:	3.3 V (the power is supplied by the multi-function adapter SVA II.0)
RC X.1-V2:	3.3 V (the power is supplied by SQuadriga II)
Current consumption USB	
RC X.1:	max. 40 mA, min. 32 mA
Power consumption	
RC X.1-V1:	max. 0.2 W
RC X.1-V2:	max. 0.2 W
Response time:	<100 ms
Cable length	
RC X.1:	1.8 m (70.9") (USB)
RC X.1-V1:	2 m (78.8") (Binder)
RC X.1-V2:	2 m (LEMO)
Dimensions:	47 x 32 x 96 mm (1.9" x 1.3" x 3.8") (WxDxH)
Weight, with cable:	95 g (0.21 lb)
Temperature operating:	-20 °C to 50 °C (-4 °F to 122 °F)
Temperature storage:	-20 °C to 70 °C (-4 °F to 122 °F)

RC X.2

Connection for battery charge:	Micro USB
Wireless range:	up to 10 meters (depending on environment)
Battery type:	LiPo
Operating voltage:	3.7 V
Operation time:	>200 h
Stand by:	>1 year
Charging time:	ca 5 h
Power consumption charging process:	ca 150 mA
Dimensions:	43 x 54 x 16 mm (1.7" x 2.12" x 0.63") (WxDxH)
Weight:	18 g (0.04 lb)
Weight velcro:	10 g (0.022 lb)
Temperature operating:	-20 °C to 60 °C (-4 °F to 140 °F)

Temperature storage:
    Recommended for storage for more than
    3 months:
	-20 °C to 45 °C (-4 °F to 113 °F)
	
	0 °C to 30 °C (-4 °F to 86 °F)

Temperature charging:	0 °C to 45 °C (-4 °F to 113 °F)

Radio protocol for communication with RC X.1 / RC X.2

IEEE 802.15.4 compatible transceiver, Lightweight Mesh (LWMesh), peer-to-peer protocol	
Identification of devices with unique 64-bit ID for each device	
Type of emissions:	G1D
Operating frequency:	2425 MHz (ch15)

Transmitted power
    RC X.1:
    RC X.2:
	
	1 mW / MHz
	2 mW / MHz

Modulation:	DSSS

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