

INSTALLATION MANUAL

TRIG TY91/TY92 (TC90) - Adapter BLE Bluetooth

VFRnav · EXPERIMENTAL

Bluetooth Low Energy adapter (BLE) that handles the data transfer between the navigation software and a TRIG TY91 / TY92 VHF transceiver (aviation radio) (BLE ↔ RS-232). The adapter simply connects to the radio – **no further electrical work required.**



SPECIFICATIONS

RADIO	TRIG TY91 / TY92
OPERATING SYSTEM	Android · iOS
INTERFACE	BLE ↔ RS-232
POWER SUPPLY	via the radio · 12/24 V
INTEGRATED FUSE	yes · not self-resetting
DIMENSIONS	48 × 45 × 17 mm

IMPORTANT

This is a prototype for experimental use only!

1 Radio Configuration

No further configuration is required on the radio.

2 Firmware Requirements

The adapter works from firmware 1.5 of the TC90 control head onwards.



The current firmware version appears briefly after power-on. It should show at least **Controller v 1.5**.

3 Connector Pin Assignment

This is an excerpt from the TRIG installation manual:

PIN	SIGNAL	DIRECTION
1	Ground	–
2	TMAPA	Bidirectional
3	TMAPB	Bidirectional
4	Ground	–
5	RS232 Tx	Output
6	RS232 Rx	Input
7	Ground	–
8	Remote ON	Output
9	Power IN	Input
10	Power Ground	–
11	Reserved	–
12	Step Button	Input
13	Transfer Button	Input
14	Reserved	–
15	Reserved	–

Source: TRIG TY91/TY92 installation manual.

4 Configuration in vfrNav

IMPORTANT

Do not pair the SD-Link in the Bluetooth settings

The SD-Link adapter is a Bluetooth Low Energy (BLE) device. BLE devices are not paired via the Bluetooth settings of your tablet or phone like regular Bluetooth devices such as headsets or speakers.

Therefore, please do not open the Bluetooth settings of iOS, Android or Windows to search for or pair the SD-Link there.

The connection to the SD-Link is set up exclusively within the navigation app itself, e.g. in SkyDemon, Sky-Map, VFRnav, EasyVFR or another supported app. Pairing at operating-system level is not required and can even prevent the connection.

Regular Bluetooth devices such as headsets, intercoms or speakers can still be used in parallel. They are paired via the operating system as usual. The SD-Link, however, is addressed directly by the navigation app.

If the SD-Link has already been paired in the Bluetooth settings: Please remove the SD-Link completely from the Bluetooth device list of your tablet or phone. Do not pair it again via the operating system afterwards; instead, set it up again exclusively within the navigation app.

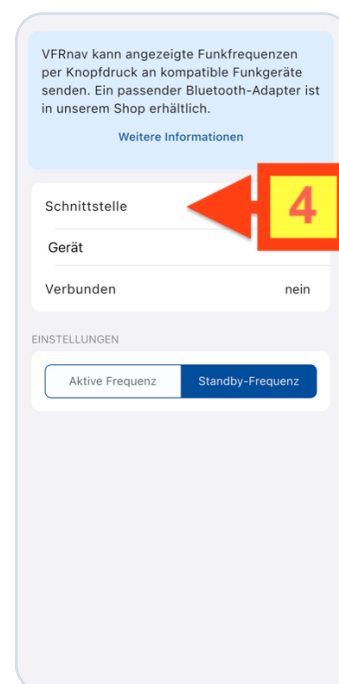
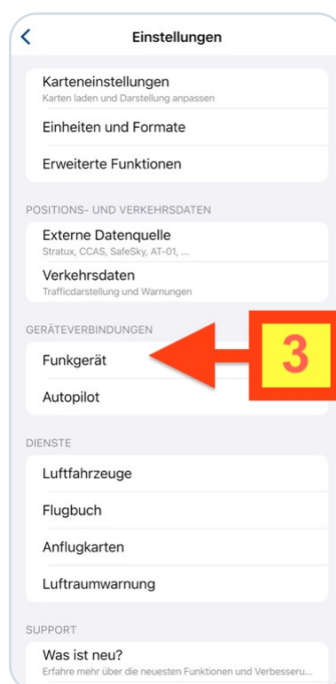
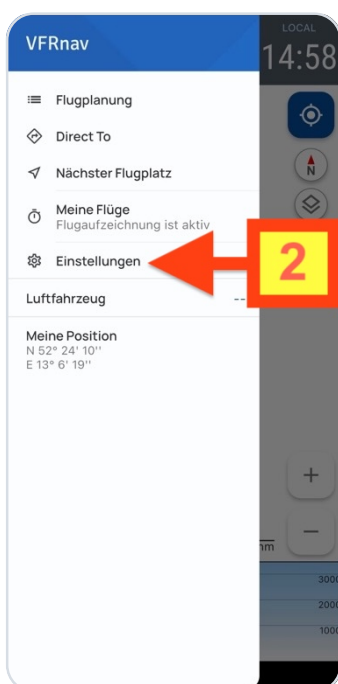
REMEMBER

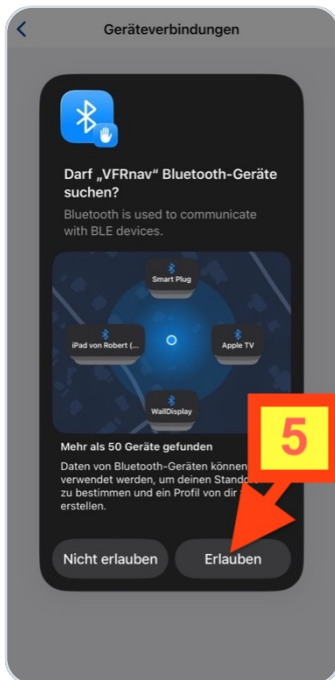
Do not pair the SD-Link in the operating system.

Always set up the SD-Link directly in the navigation app.



- Switch on aircraft power, turn on the radio.
- Enable Bluetooth on your phone/tablet.
- Start vfrNav.
 - ① Open menu
 - ② Open settings menu
 - ③ Under Device connections → Radio
 - ④ Select interface

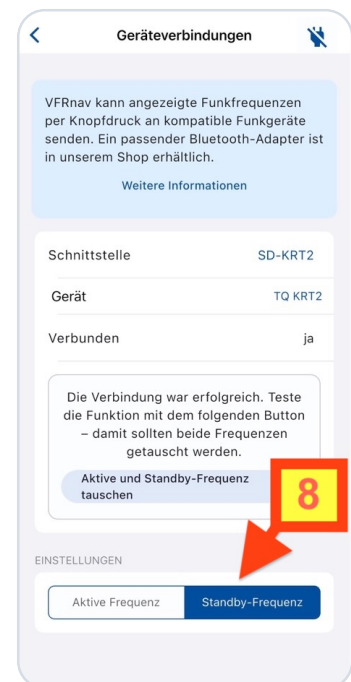
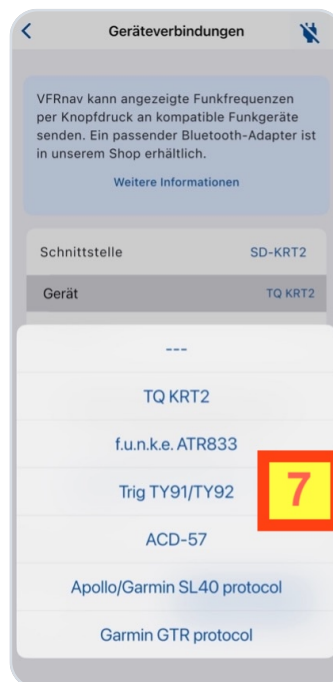
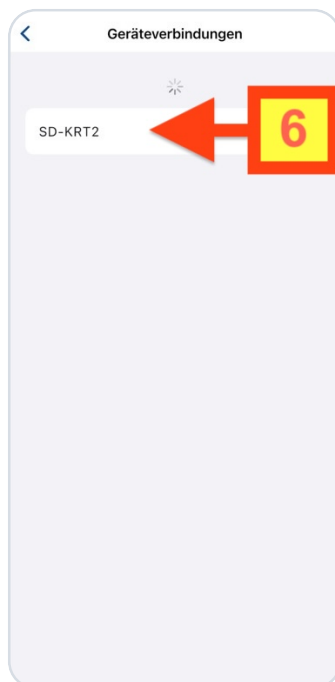




- ⑤ Enable Bluetooth if necessary
- ⑥ Select the name of the found adapter: **SD-TYX**
- ⑦ If the protocol was not automatically detected, please adjust it under „Gerät" anpassen.
- ⑧ In the connection settings, specify whether the frequency should be transmitted to the radio immediately as active or as standby.

IMPORTANT NOTICE

Check under „Verbunden": It should say „ja" stehen.



5 Contact

If you have any questions, problems or feedback, please contact us:

LayCom Vision GmbH – SD-Link

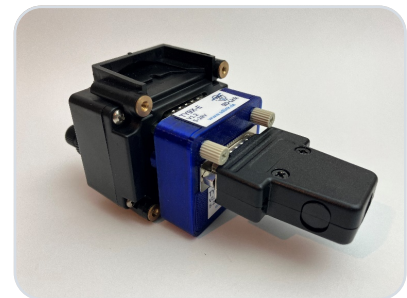
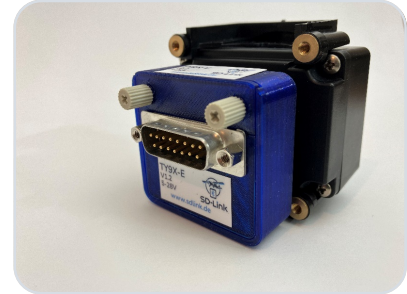
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Dimensions

