



DSD Xpress App

User manual





1	INTENDED USE	1
1.1	About DSD Xpress	1
1.2	Main Features	1
1.3	System Requirement	1
2	GETTING STARTED	2
2.1	App Installation	2
2.2	Initial Setup	2
3	EXPLANATION OF THE START SCREEN	2
3.1	Device List	2
3.2	Scanning for Devices	3
3.3	Device Activation via QR Code	3
3.4	Connecting to a Device	4
3.5	Menu Options	4
4	DASHBOARD	4
5	STATUS SCREEN	5
5.1	General Information	5
6	DASHBOARD	5
6.1	Actions in the Status Screen	6
6.1.1	Deleting Vehicle	6
6.1.2	Downloading Vehicle Data	6
6.1.3	Firmware Update	6
7	SETUP SCREEN	7
7.1	Speed Limit	7
7.1.1	Measurement Point Name and Speed	7
7.2	Timer	8
7.2.1	Adding a Timer	8
7.2.2	Deleting a Timer	8
7.2.3	Device Default Behavior	8
7.2.4	Adding Multiple Timers	9
7.3	Apps	10
7.3.1	Anti-Race (Anti Street Racing)	10
7.3.2	Text Display (only for DSD devices with text function)	11
7.4	Demo Mode	12
7.5	Saving Settings	12
7.6	Setup Management	13
7.6.1	Save Setup	13



7.6.2	Load Setup	13
8	LIVE MODE	14
9	MEASUREMENTS	15
9.1	Accessing Measurements	15
9.2	Measurement Data List	15
9.3	Selecting Measurement Data	16
9.3.1	Share	16
9.3.2	Delete	16
9.3.3	Additional Options	16
10	FIRMWARE SCREEN	17
10.1	Accessing Firmware Updates	17
10.2	Firmware List	17
10.2.1	Firmware Information	17
10.3	Updating Firmware	17
11	TROUBLESHOOTING	18
11.1	Bluetooth Connection Issues	18
11.2	Permission Issues	18
11.3	Measurement Data Issues	19
11.4	Setup Issues	19
11.5	Firmware Update Issues	19
11.6	Handling file conflicts	20
12	APPENDIX	20



1 Intended Use

The DSD (DataCollect Speed Display) speed measurement and display system is intended exclusively for measuring and displaying speeds in road traffic.



The safety and operating instructions in this user manual must be strictly observed. Therefore, please read the entire user manual carefully before using the product.

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1.1 About DSD Xpress

DSD Xpress is a professional Android application for configuring and managing DataCollect DSD speed displays.

The app allows you to connect to devices via Bluetooth, adjust settings, manage measurement data, and monitor the speed display in real time.

1.2 Main Features

- **Bluetooth Device Discovery:** Scan for and connect to DSD devices version 5 or higher via Bluetooth
- **Device Status Monitoring:** Display important device parameters such as serial number, firmware version, battery voltage, and vehicle count
- **Setup Configuration:** Extensive configuration options for speed limits, timers, apps, text display, and demo mode
- **Setup Management:** Save and load device configurations
- **Live Mode:** Real-time display of measured speed
- **Measurement Data Management:** Download, share, copy, and upload measurement data
- **Firmware Updates:** Install new firmware versions on the device

1.3 System Requirement

- Android 10 (API 29) or higher
- Bluetooth support (Classic and/or BLE)
- Internet connection for firmware updates and data uploads



2 Getting Started

2.1 App Installation

Install the DSD Xpress app using the provided installation link or APK file. The app requires the following permissions:

- **Bluetooth permissions:** Required for scanning and connecting to devices
- **Location permissions:** Required for Bluetooth scanning (Android system requirement)
- **Storage access:** Required for saving and sharing measurement data

2.2 Initial Setup

When launching the app for the first time, you will be prompted to grant the required permissions. Follow the on-screen instructions and grant all requested permissions to ensure full functionality of the app.

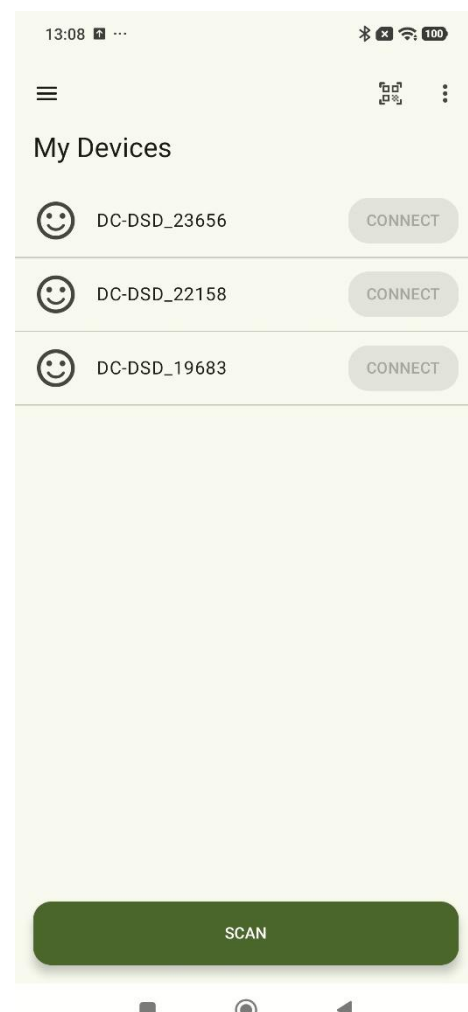
3 Explanation of the Start Screen

The scanner screen is the starting point of the app and displays all available DSD devices.

3.1 Device List

The device list shows all activated DSD devices. Each device is displayed with the following information:

- **Device icon:** Smiley icon indicating the device type (DSD)
- **Device name:** Format DC-DSD_XXXXX (where XXXXX is the device number)
- **Connection information:** Bluetooth type (LE for Low Energy, Classic), connection status, signal strength
- **Connect button:** Button used to establish a connection





3.2 Scanning for Devices

To search for devices:

1. Tap the **SCAN** button at the bottom of the screen
2. The app searches the surrounding area for available DSD devices
3. Found devices are displayed in the list
4. Pull down the list to refresh the results



Bluetooth must be enabled on your smartphone. If it is disabled, a message will appear with a button to enable it.

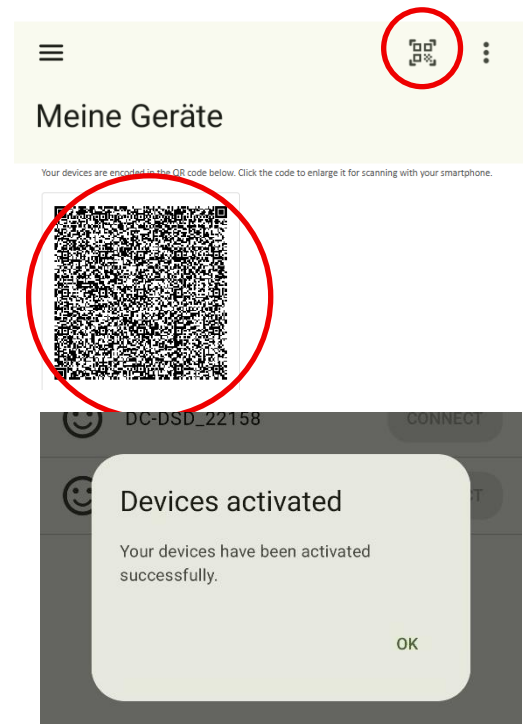
3.3 Device Activation via QR Code

You can activate multiple devices at once by scanning a QR code:

1. Tap the **QR code scanner icon** in the top right corner
2. Point the camera at the QR code (available in your myTrafficData “Activate” section. If you see more than one QR code there, it means you have more than 20 devices. Please scan all QR codes!) Link zur www.mytrafficdata.com oder schnell per Scan:



3. The devices will be activated automatically
4. A dialog will confirm the number of activated devices





3.4 Connecting to a Device

To connect to a device:

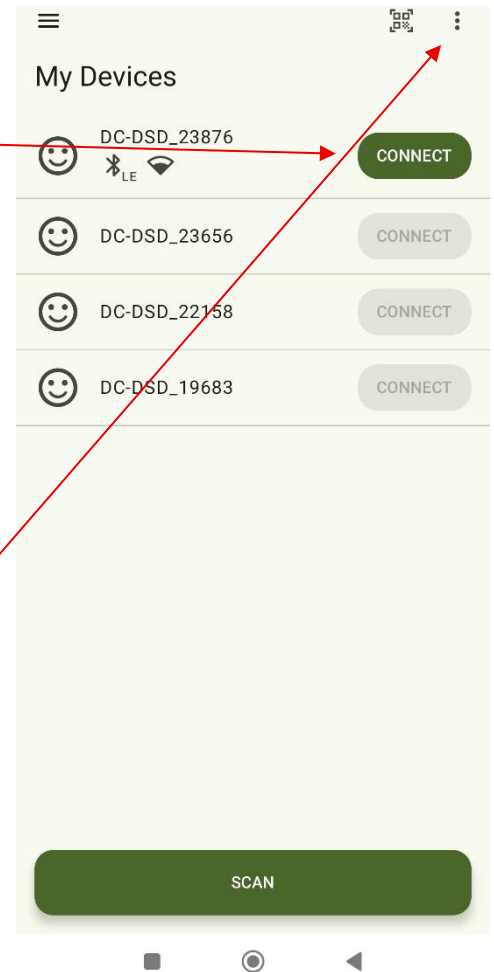
1. Tap the **CONNECT** button next to the desired device
2. The app establishes a Bluetooth connection
3. After a successful connection, the dashboard opens automatically



Make sure you are within range of the device (maximum 10–30 meters, depending on the environment).

3.5 Menu Options

Through the three-dot menu (⋮) in the top right corner, you can access: **Measurements:** Opens the measurement data management



4 Dashboard

After successfully connecting to a device, you will enter the dashboard. The dashboard is divided into three main sections, accessible via the bottom navigation bar:

- **Status: Overview of all device parameters**
- **Setup: Configuration of device settings**
- **Live Mode: Real-time speed display**



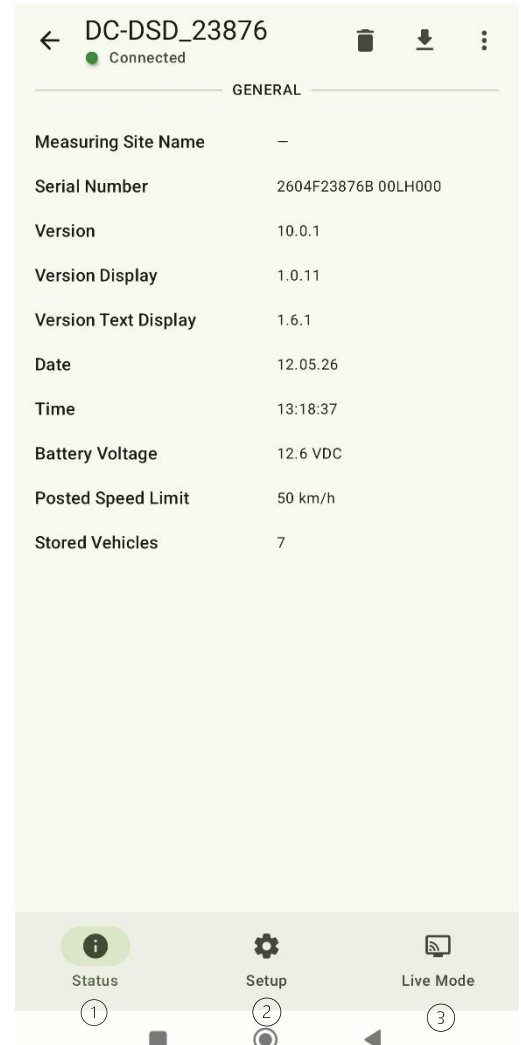
5 Status Screen

The status screen displays all important information about the connected device.

5.1 General Information

The **GENERAL** section shows basic device information:

- **Measurement point name:** The name assigned to this setup
- **Serial number:** Unique identifier of the device
- **Version:** Main firmware version
- **Display version:** Firmware version of the display component
- **Text display version:** Firmware version of the text display (if available)
- **Date:** Current date on the device
- **Time:** Current time on the device
- **Battery voltage:** Current battery voltage (e.g. "12.4 VDC")
- **Speed limit:** Configured speed limit (e.g. "20 km/h")
- **Saved vehicles:** Number of recorded vehicle passages



6 Dashboard

After successfully connecting to a device, you will enter the dashboard. The dashboard is divided into three main sections, accessible via the bottom navigation bar:

- **Status:** Overview of all device parameters ^① (general Information)
- **Setup:** Configuration of device settings ^② (Safety | Measurement point name | Timer settings)
- **Live Mode:** Real-time speed display ^③ (functionality check)



6.1 Actions in the Status Screen

6.1.1 Deleting Vehicle

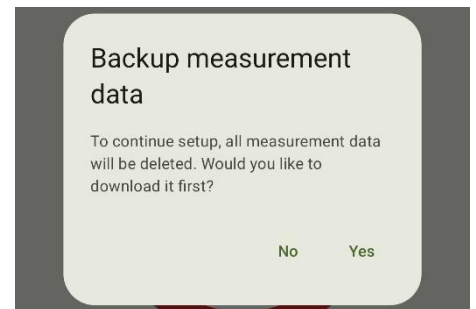
You can delete stored vehicle data using the trash icon in the upper right corner:

1. Tap the trash icon
2. Confirm the deletion request in the dialog that appears
3. The vehicle data will be deleted from the device



Note: When you open the setup menu, you will automatically be asked to back up the data. You can choose between Yes / No.

Deleting vehicle data is permanent and cannot be undone. Please download the data before deleting it if you want to keep it.



6.1.2 Downloading Vehicle Data

You can download stored vehicle data using the download icon:

1. Tap the download icon
2. The data will be downloaded to the local app storage
3. A confirmation message appears after a successful download



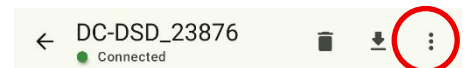
The downloaded data can later be managed in the Measurements screen.



6.1.3 Firmware Update

You can access the firmware update via the **three-dot menu** (:). A firmware update is usually made available after consultation with our support team:

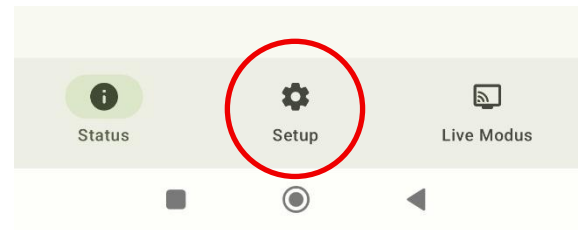
1. Tap the three-dot menu
2. Select **Firmware Update**
3. The firmware screen will open (see Firmware screen)





7 Setup Screen

The setup screen allows you to configure all device parameters. Settings are divided into multiple categories, accessible via tabs at the top of the screen.

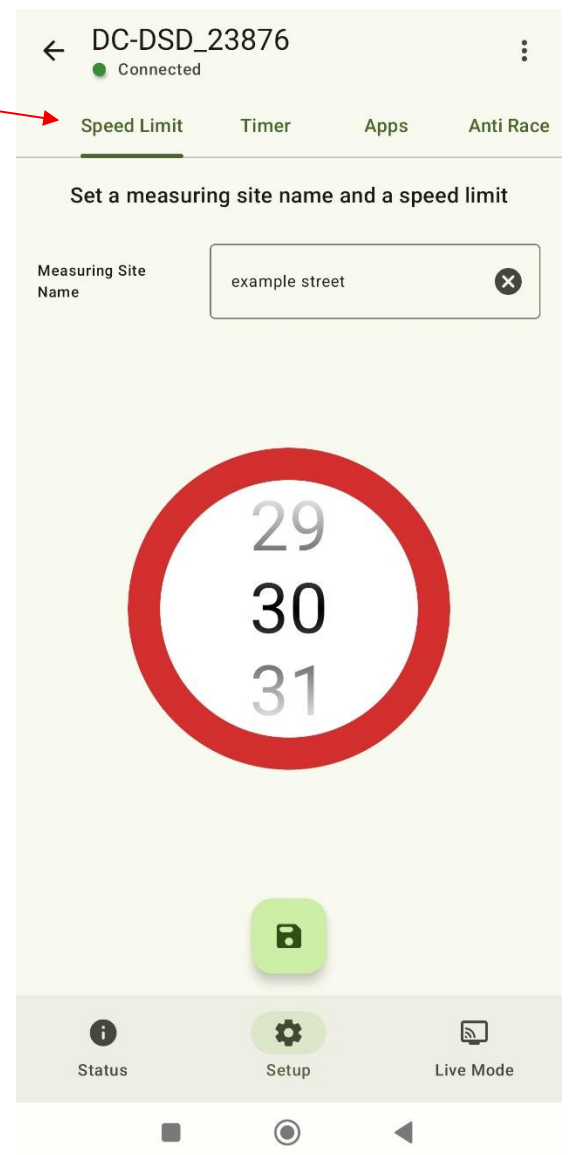


7.1 Speed Limit

In the **Speed Limit** tab, you configure basic settings.

7.1.1 Measurement Point Name and Speed

- **Measurement point name:** Enter a name for the measurement location (e.g. "example street")
- **Speed limit selection:** Use the speed limit selector to choose the desired maximum permitted speed
- The display shows the current limit in a red traffic sign symbol





7.2 Timer

In the **Timer** tab, you can configure up to 4 time windows in which the device automatically uses different settings.

7.2.1 Adding a Timer

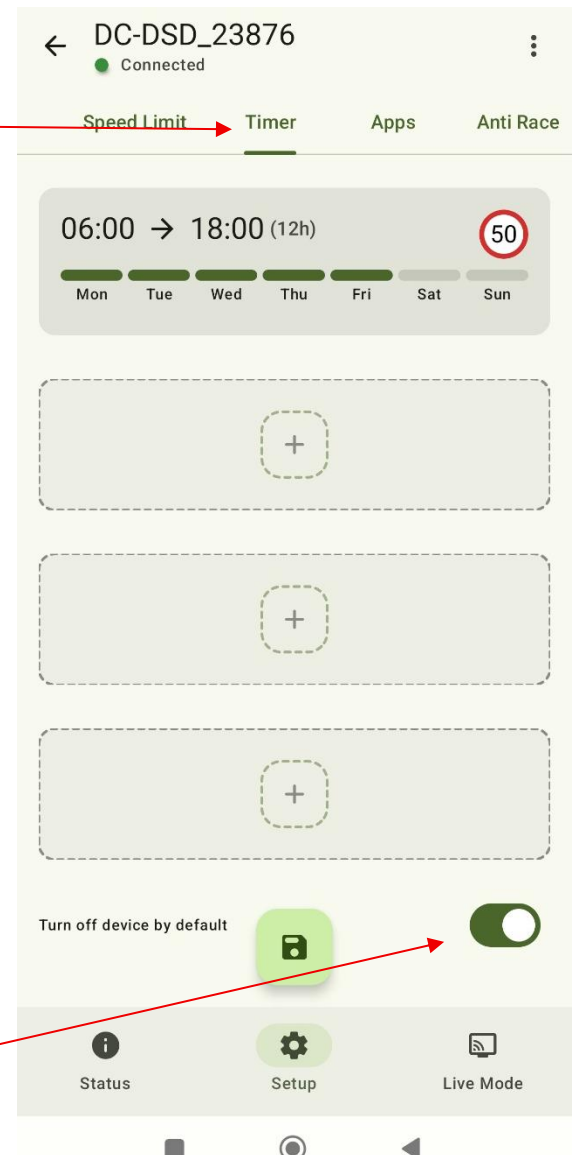
1. Tap the plus button (+) in one of the four available time slots
2. Configure the timer parameters:
 - **Start time:** Beginning of the time window (e.g. "06:00")
 - **End time:** End of the time window (e.g. "18:00")
 - **Weekdays:** Select the days on which the timer should be active
 - **Speed limit:** Speed limit for this period (e.g. "50 km/h")

7.2.2 Deleting a Timer

Swipe a timer to the right to reveal the delete option, then tap the **trash icon**.

7.2.3 Device Default Behavior

If you have created a timer, you can additionally define whether the device should remain active outside these time periods and continue recording data.





7.2.4 Adding Multiple Timers

You can configure up to 4 timers per device. Note that timer time ranges can only be set up to the end of the day (23:59).

Example: During school days (Mon–Fri), the allowed speed should be 30 km/h, and outside these times (including weekends) 50 km/h.

In this case, the timers must be set up as follows (order is not relevant):

1. Timer “End of Day”

17:00 – 23:59
Mon; Tue; Wed; Thu; Fri
50km/h

2. Timer:

06:01 – 16:59
Mon; Tue; Wed; Thu; Fri
30km/h

3. Timer “Start of Day”

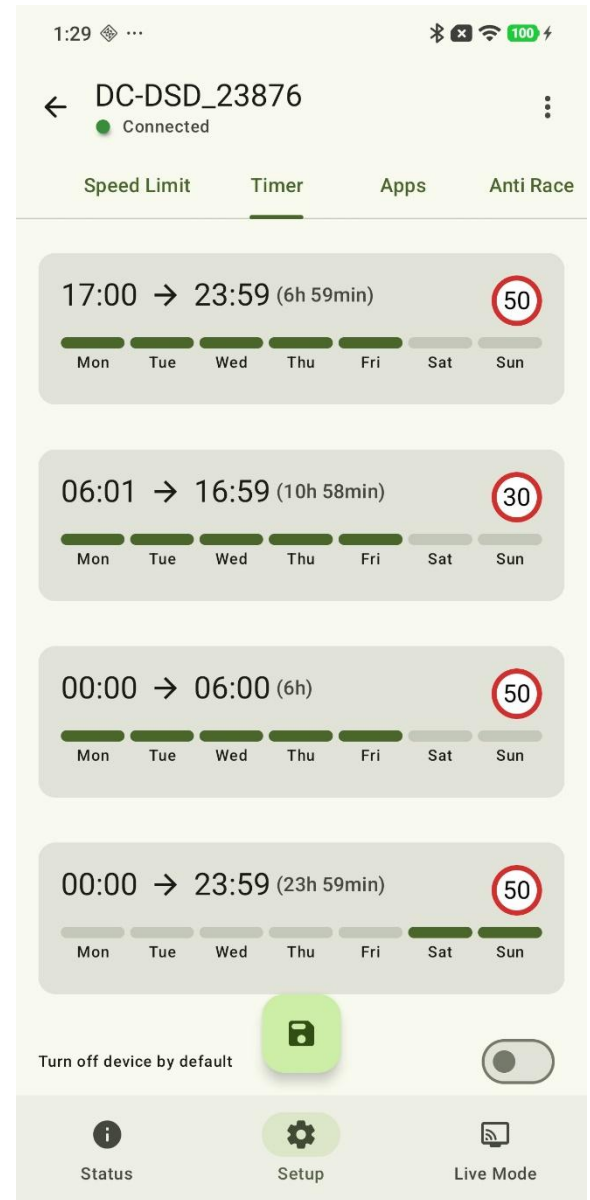
00:00 – 06:00
Mon; Tue; Wed; Thu; Fri
50km/h

4. Timer “Weekend”

00:00 – 23:59
Sat; Sun
50km/h



Note: You cannot enter 00:00 – 00:00, as the system does not automatically roll over to the next day.





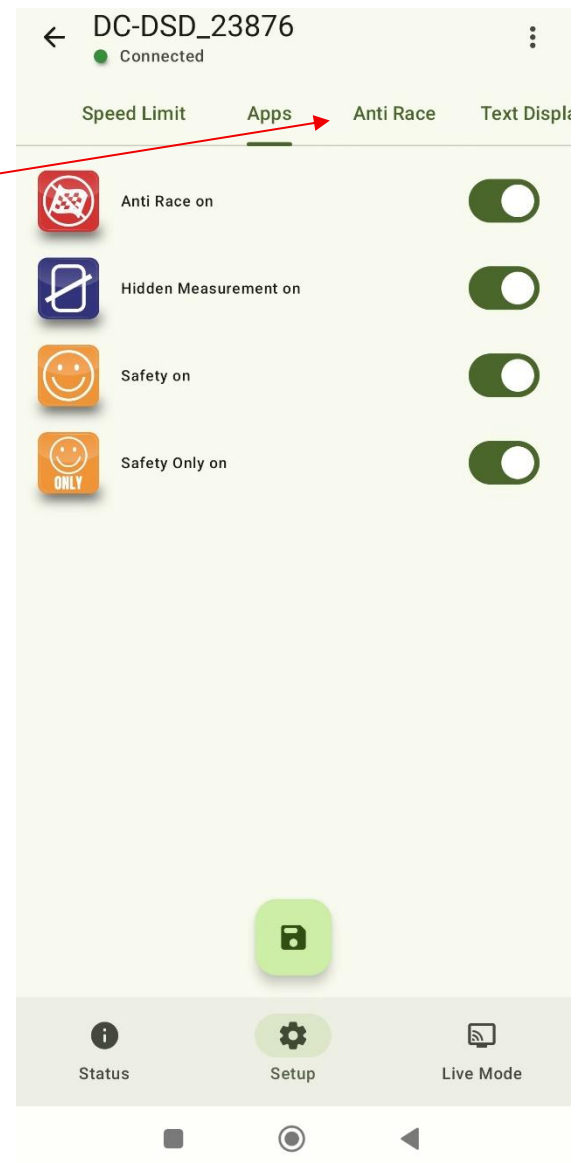
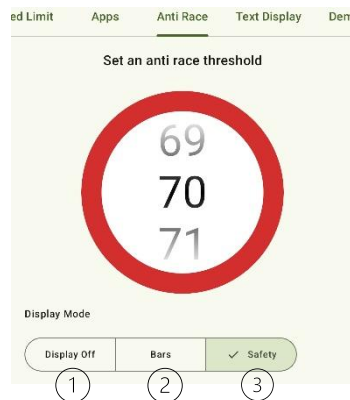
7.3 Apps

In the **Apps** tab, you can enable or disable various device functions, such as Safety Mode, Anti-Race, hidden measurement, and Safety Only functions.

7.3.1 Anti-Race (Anti Street Racing)

If this feature has been purchased and activated, you can configure in the **Anti-Race** section at which measured speed:

- ① the device shows nothing
- ② the device reacts and displays a horizontal bar
- ③ Safety mode = negative smiley face





7.3.2 Text Display (only for DSD devices with text function)

In the **Text Display** tab, you can configure the text messages shown on the device.

Option 1 line active:

Proper driving = positive message
(e.g. "Thank you")

Improper driving = negative message
(e.g. "Slow down")

Option 2 lines active:

Your message is split into two lines, which reduces the text size accordingly.

The screenshot shows the 'Text Display' configuration screen with '2 Lines' selected. The 'Line 1' field contains 'THANK YOU' and the 'Line 2' field contains 'SO MUCH'. The 'Scrolling' checkbox is unchecked.

Scrolling text option:

From 17 characters onward, your message is automatically switched to scrolling text, meaning it is continuously displayed from right to left on the display.

Tip for readability: Best suited for speed zones under 30 km/h

The screenshot shows the 'Text Display' configuration screen with '1 Line' selected. The 'Line 1' field contains 'THANK YOU SO MUCH'. The 'Scrolling' checkbox is checked, and a red circle highlights it. A green smiley icon is visible next to the 'Scrolling' option.



The green and red smiley icons next to the headings visually indicate which message applies to which situation.

The screenshot shows the DSD Xpress App interface with the 'Text Display' tab selected. The 'Lines' section shows '1 Line' selected with a green smiley icon and '2 Lines' with a red smiley icon. The 'Line 1' field contains 'THANK YOU'. The 'Scrolling' checkbox is unchecked. The bottom bar shows 'Status', 'Setup', and 'Live Mode' options.



7.4 Demo Mode

In the **Demo Mode** tab, you can enable or disable the device's demo mode. The demo mode is useful for demonstrations and testing and does not display actual measured speeds.

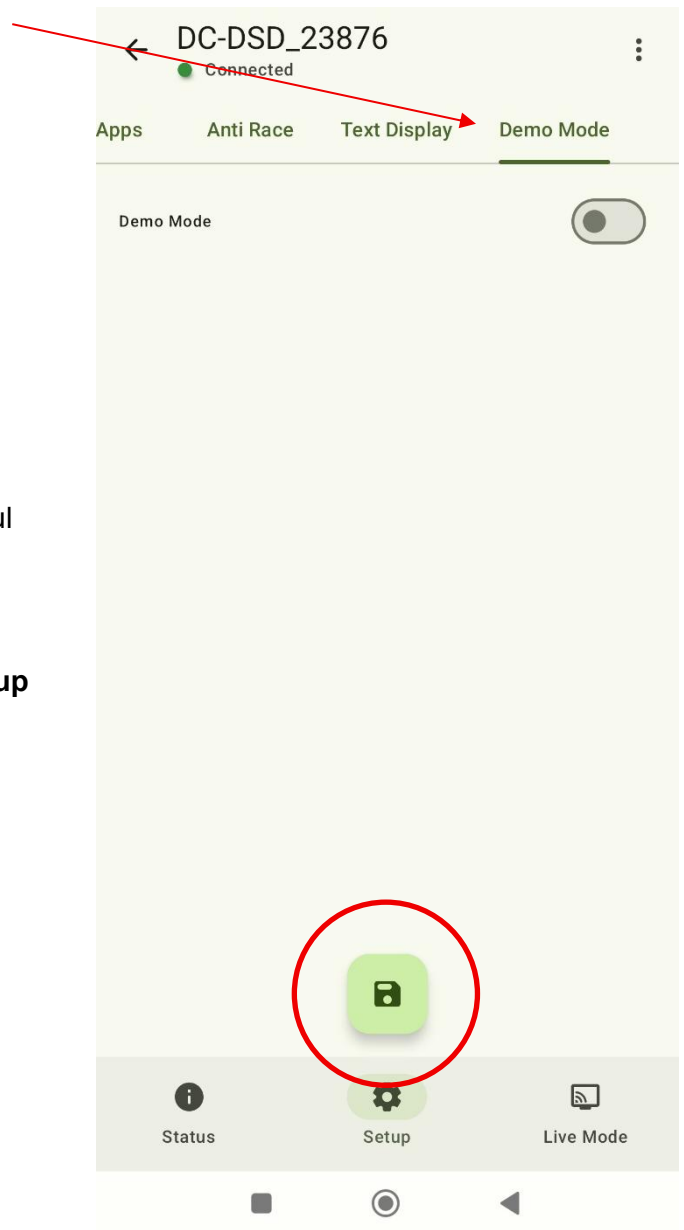
7.5 Saving Settings

After making changes:

- Tap the **Save** button at the bottom
- The settings are transferred to the device
- A confirmation message appears after successful saving



Unsaved changes will be lost if you leave the setup screen. You will be prompted for confirmation if you try to navigate away with unsaved changes.





7.6 Setup Management

7.6.1 Save Setup

You can save the current setup for later use via the three-dot menu (:).

- Tap the three-dot menu (:)
- Select **Save setup**
- Enter a name for the setup (e.g. "example street")
- Confirm by tapping **SAVE**

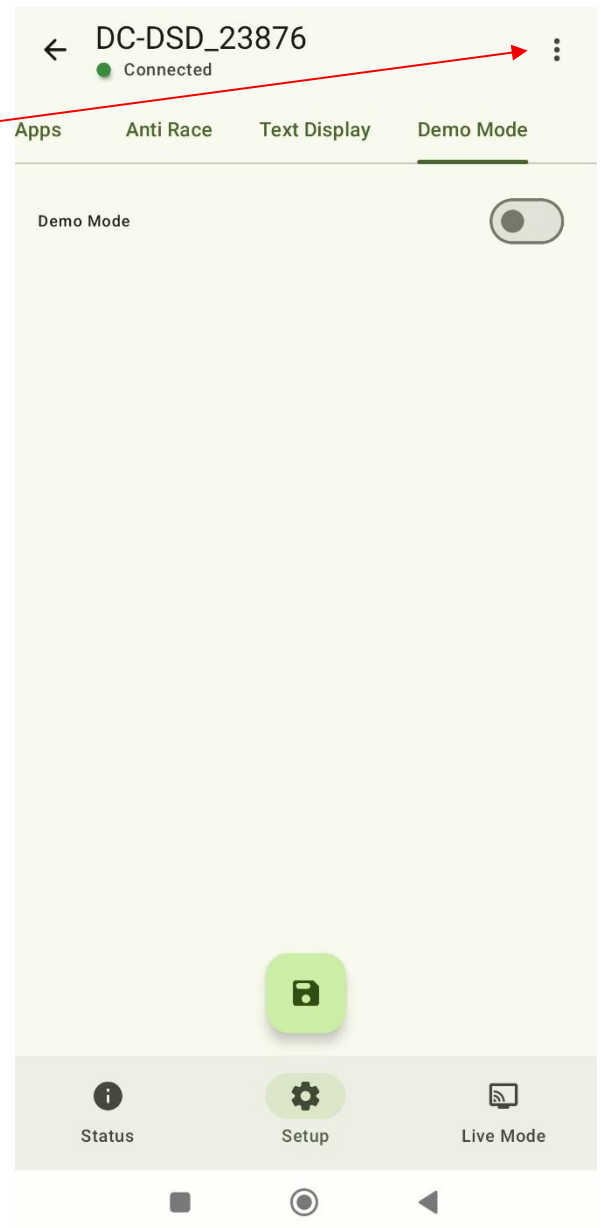
7.6.2 Load Setup

To load a saved setup:

- Tap the three-dot menu (:)
- Select **Load setup**
- Select a setup from the list
- Tap **Load**
- The setup will be transferred to the device



When loading a setup, the current settings will be overwritten. A dialog may appear beforehand prompting you to save measurement data if vehicle data is present.





8 Live Mode

The Live Mode displays the currently measured speed in real time.

The main display in Live Mode consists of:

- **Large speed value:** Centered, shown in white text on a black background
- **Unit:** "km/h" displayed to the right of the value
- **Red-and-white border:** Simulates the appearance of a real speed display



Live Mode is ideally suited for monitoring device functionality during installation.





9 Measurements

The Measurements screen displays all downloaded measurement data and allows you to manage it.

9.1 Accessing Measurements

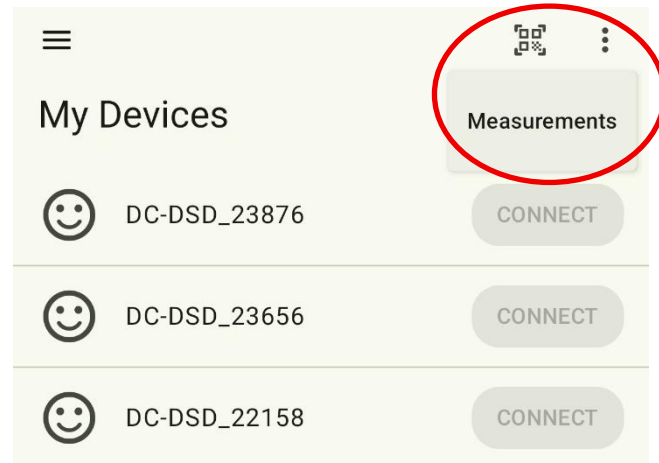
Open the Measurements screen via:

Scanner screen: Three-dot menu (:) → **Measurements**

9.2 Measurement Data List

Each entry in the list shows:

- **Vehicle icon:** Icon indicating the measurement data
- **Measurement location name:** Name of the measurement site (e.g. "0000000000 (no name assigned)", "Musterstrasse")
- **Date and time:** Timestamp of the measurement (e.g. "25.03.26 11:19:14")





9.3 Selecting Measurement Data

To select measurement data:

- **Long-press a measurement entry**
- Selection mode will be activated
- Tap additional entries to select or deselect them
- Selected entries are highlighted

9.3.1 Share

Tap the share icon to share the selected measurement data with other apps: 

- Select the measurement data to be
- Tap the share icon
- Choose the desired app from the dialog that appears
- The measurement data will be shared as files

9.3.2 Delete

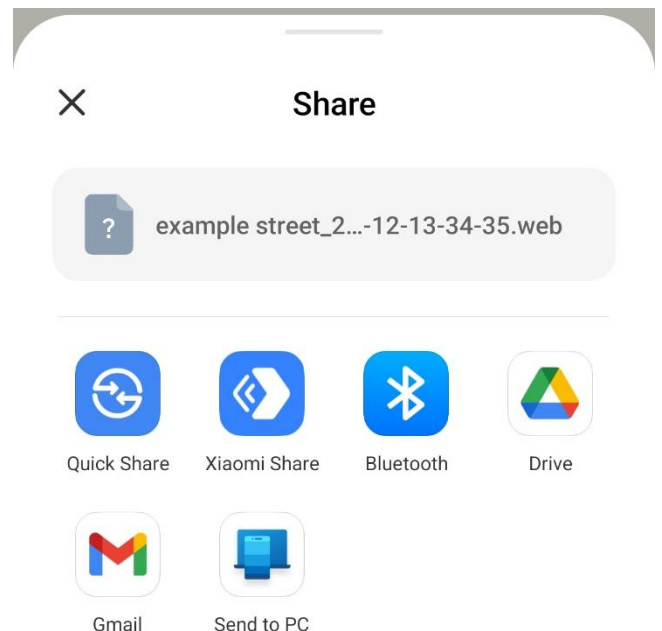
Tap the trash icon to delete the selected measurement data: 

- Select the measurement data to be deleted
- Tap the trash icon
- The measurement data will be permanently deleted

9.3.3 Additional Options

Via the three-dot menu (:) in selection mode, the following option is available:

- **Copy to:** Copies the selected measurement data to a folder of your choice



It is recommended to create the destination folder in advance.



10 Firmware Screen

The Firmware screen allows you to update the device firmware.

10.1 Accessing Firmware Updates

Open the Firmware screen via:

Status screen: Three-dot menu (:) → Update firmware

10.2 Firmware List

The firmware list shows available firmware versions grouped by platform (e.g. DSD).

10.2.1 Firmware Information

Each firmware entry displays:

- **Current:** Marks the currently installed version (blue chip)
- **Latest:** Marks the latest available version (light blue chip)
- **Version number:** e.g. "10.0.1"
- **Release date:** Date the firmware was created
- **Technical details**
- **Update button:** Used to install the firmware

10.3 Updating Firmware

To update the firmware:

- Select the desired firmware from the list
- Tap Update
- A confirmation dialog appears:
- Compatible firmware: "Are you sure you want to proceed with the firmware update?"
- Older firmware: Warning that the selected firmware is older than the installed version
- Incompatible firmware: Critical warning about an incompatible processor type
- Unknown processor type: Notice that the update is performed at your own risk
- Confirm by tapping Continue
- A confirmation message appears once the update is complete



Do not disconnect the device during the update. Ensure sufficient battery voltage and do not install incompatible firmware, as this may render the device unusable (please contact support for assistance if needed).



11 Troubleshooting

11.1 Bluetooth Connection Issues

➤ Device not found

Problem: The device does not appear in the device list
Solutions:

- ☐ Ensure Bluetooth is enabled on your smartphone
- ☐ Check whether the device is powered on
- ☐ Reduce the distance to the device (maximum 10–30 meters)
- ☐ Tap **SCAN** to repeat the search
- ☐ Restart the app
- ☐ Disable and re-enable Bluetooth on your smartphone

➤ Connection fails

Problem: Connection cannot be established
Solutions:

- ☐ Check the signal strength (signal bar icon)
- ☐ Remove any obstacles between the smartphone and the device
- ☐ If the device is already paired (connection icon), remove it from the smartphone's Bluetooth settings and try pairing again
- ☐ Restart the device

➤ Connection drops

Problem: Connection is interrupted during use
Solutions:

- ☐ Check the device battery voltage (should be above 11 VDC)
- ☐ Reduce the distance to the device
- ☐ Avoid interference sources (other Bluetooth devices, Wi-Fi routers, microwaves)
- ☐ Check the smartphone battery level

11.2 Permission Issues

➤ Permissions permanently denied

Problem: "Permissions are required to scan for nearby devices and establish connections"
Solutions:

- ☐ Open Android settings
- ☐ Navigate to Apps → DSD Xpress
- ☐ Tap **Permissions**
- ☐ Enable all required permissions:
 - Location (for Bluetooth scanning)
 - Bluetooth
 - Storage (for measurement data)
- ☐ Restart the app



11.3 Measurement Data Issues

➤ Measurement data cannot be downloaded

Problem: Download error or no data available

Solutions:

- ☐ Check whether vehicle data is stored on the device (Status → Stored vehicles > 0)
- ☐ Ensure a stable Bluetooth connection
- ☐ Check available storage space on your smartphone
- ☐ Try downloading the data again

➤ Measurement data cannot be shared

Problem: “No files available to share”

Solutions:

- ☐ Verify that measurement data has been downloaded
- ☐ Open the Measurements screen and check whether entries are available
- ☐ Try downloading the measurement data again

11.4 Setup Issues

➤ Settings are not saved

Problem: Changes are lost or not transferred to the device

Solutions:

- ☐ Tap the **Save** button before leaving the setup screen
- ☐ Check the Bluetooth connection
- ☐ Wait for the confirmation after saving
- ☐ If the message “No changes made” appears, no modifications were detected

➤ Timer overlaps

Problem: “The start time overlaps with an existing timer” or “The weekdays overlap with an existing timer”

Solutions: Check existing timers for time conflicts

- Adjust the start or end time of the new timer
- Select different weekdays
- Delete overlapping timers if they are no longer needed

11.5 Firmware Update Issues

➤ Firmware list is empty

Problem: No firmware versions are displayed

Solutions:

- ☐ Check your internet connection
- ☐ The banner “You are currently offline” indicates no internet connection
- ☐ Connect to Wi-Fi or enable mobile data
- ☐ Restart the app



➤ **Firmware update fails**

Problem: The update is interrupted or fails

Solutions: Check the device battery voltage (must be at least 12 VDC)

- Ensure a stable Bluetooth connection
- Move closer to the device
- Avoid using the smartphone during the update
- Restart the device and try the update again

11.6 Handling file conflicts

If files with the same name already exist:

- A dialog appears: "X files with the same name already exist in the destination folder"
- **Replace:** Overwrites existing files
- **Skip:** Keeps existing files and copies only new files

12 Appendix

Legal information

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DSD Xpress is a registered trademark of DataCollect GmbH.

Disclaimer

Use of the DSD Xpress app is at your own risk. DataCollect GmbH assumes no liability for damage resulting from incorrect configuration or operation.

Data protection

The app does not store any personal data on external servers. All measurement data is stored locally on the smartphone. When uploading measurement data, it is transmitted securely to DataCollect servers using encryption.