EzDx Technology Inc.

at-Home Testing
Pioneer

UserGuide_WeD-mini



EzDx WeD™-mini Pocket-sized Nucleic Acid Fluorescence Detector

"We are dedicated to offering convenient diagnostic tools and services to everyone"

【Product Introduction】

The EzDx WeD™-mini is a compact, pocket-sized nucleic acid testing device streamlined and optimized based on the WeD-1 nucleic acid detector. Weighing only 61 grams, it retains two detection wells, making it highly suitable for individual use. It is compatible with isothermal detection methods like LAMP, RPA, LAMP-CRISPR, RPA-CRISPR, LAMP-PfAgo, and more.Simultaneously equipped with a dual-fluorescence channel and a single-fluorescence channel dual-mode.

The WeD-mini can be swiftly used for home self-testing of diseases such as COVID-19, influenza, and is also capable of quantitative an alysis of HIV, as well as detecting meat sources and genetically mod ified organisms, providing prompt and accurate personal health andfood safety information.

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New Features: The WeD-mini achieves real-time quantitative fluorescence detection and automatic result interpretation on the mobile device. By connecting to your smartphone, you can conveniently view test results and conduct quantitative analysis without the need for expensive equipment or intricate operations. Additionally, the WeD-mini supports powering via a phone charger or power bank, ensuring worry-free operation with ample battery, allowing nucleic acid testing anytime, anywhere.

Portable Design: The WeD-mini's compact and lightweight design allows it to be effortlessly carried in a backpack or pocket, enabling convenient individual nucleic acid testing for ensuring personal safety and health, regardless of time or place.

The EzDx WeD-mini safeguards your health, ensuring access to nucleic acid information at your fingertips, enabling nucleic acid testing wherever you go.

Package Contents: WeD-mini pocket-sized fluorescence detector, Type C power cable.

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【Product Specifications】

Voltage	5-24V
Rated/Maximum Power	18 / 22W MAX
Dimensions	46.3mm32.3mm55.3mm
Weight	61g
Heating Temperature Range	20-100℃
Temperature Control Accuracy	±0.3℃
Operating Temperature	Room temperature

【Device Operation】

1. Plug in the power (Type C) and connect to the Bluetooth of the device;
2. Tap "Start Run" on the phone interface; the phone screen lights up, and the device begins running. Real-time observation of fluorescence detection signals and heating status is possible via the phone;
3. When the reaction program is completed, the phone screen turns gray, and the result is automatically interpreted.

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Modifying WeD-mini Running Parameters Through the APP:

1. Plug in the power (Type C);
2. Open the mobile APP (or WeChat mini-program) to search for the device and connect;
3. Adjust the heating program and result interpretation threshold using the mobile APP (or WeChat mini-program) and save the settings.

Mobile APPs/Operation Video Tutorial QR Codes:

EzDx WeD-mini-singleplex App

iOS/macOS APP	Google Play App	Operation Video Tutorial

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EzDx WeD-mini Singleplex App with PDF Report Generation Feature

iOS/macOS APP	Google Play App	Web App

EzDx WeD-mini-duplex App

iOS/macOS APP	Google Play App

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【Precautions】

1. This product is compatible only with standard 200µL PCR tubes, and not with 100µL PCR tubes. The minimum reaction volume it supports is 25µL.
2. During use, ensure that the mobile app (or WeChat mini-program) has Bluetooth and location-sharing enabled. Please connect Bluetooth via the app (or WeChat mini-program), not through the phone's "Settings."
3. If you are using an Android operating system, ensure that the EzDx app is granted background running permissions. Specific paths and settings may vary depending on the device brand and system version; please refer to the device manual. If not set, real-time data display may be affected by screen-off or app switching.
4. If using lyophilized reagents, ensure they are fully dissolved and mixed before use.
5. When using the Web App, note the following:
   - Google Chrome browser must be used.
   - Complete permissions for the app, including location information, must be granted.
   - Check if automatic report downloads are being blocked.
   - A Bluetooth receiver must be installed on desktop computers.

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6. For singleplex detection, it is recommended to use the EzDx WeD-mini-singleplex App to enhance fluorescence signal strength. For duplex detection, R/G and other relevant parameters should be adjusted according to specific conditions to ensure optimal performance. If necessary, please reach out to EzDx for assistance with parameter adjustments.
7. This device is capable of detecting fluorescence within the 510~650nm range and is specifically optimized for duplex detection of FAM/fluorescein (emitting at approximately 520nm) and ROX/TexRed (emitting at approximately 600nm).
8. “Positive Threshold (%)” refers to the ratio of the detected value to the baseline; “Positive Threshold (abs+)” refers to the absolute increase from the baseline value. The default threshold is set to 130%, with an absolute growth value of 1000. The threshold should be set based on the fluorescence value of the detection item displayed on the phone screen. The corresponding fluorescence value of the amplification curve is the value after basline subtraction, and should not be directly used to set the threshold. In addition, the specific threshold setting requirements are as follows: the upper limit of the threshold should be 255% of the baseline value, and the upper limit for the absolute growth value is 2550. If necessary, please reach out to EzDx for assistance with threshold setting.

9. While the device remains powered on, connecting it to a phone allows you to retrieve the amplification curves by clicking “Traceback Data” once or twice.
10. The QR code scanning option in the top-right corner allows for quick entry of project information. By scanning a customized QR code, the data is automatically added as a new project.
11. This product can be powered by a 5V to 24V power source. For optimal performance, it is recommended to use a smartphone supercharger with PD (Power Delivery) protocol or a smartphone power bank.

CERTIFICATE OF CONFORMITY

Product name: EzDx WeD™-mini Pocket-sized Nucleic Acid Fluorescence Detector

Type: EzDx WeD™-mini

Date of manufacture: 2025.07.26

Inspectors:

This product has been tested to meet the standard and is allowed to leave the factory

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