

YSENZDX

Mobile PCR Workstation

A molecular workflow. Ready to travel.

A transportable molecular testing setup combining automated nucleic acid extraction, 16-sample real-time PCR, mobile power and essential accessories in protective wheeled cases.



16 samples

Real-time PCR
capacity

1-4 samples

Extraction capacity per
run

50 Ah

Mobile power supply

8-13 min

Extraction, protocol
dependent

Extraction. Amplification. Mobile power.

Protective cases keep instruments and essential accessories together for professional on-site setup. Branding visualization; supplied finish and contents are confirmed with the order.

A COORDINATED EQUIPMENT SETUP

From preparation to results

01 Automated extraction

A magnetic-bead nucleic acid extractor with prepackaged TM-36 reagents, UV decontamination and a compact benchtop footprint.

02 Real-time PCR

A 16-sample, four-channel amplification system operated through an external tablet, with fluorescence detection and USB connectivity.

03 Mobile power and transport

A 50 Ah power supply and protective wheeled cases keep the configured equipment together for transport and on-site setup.

04 Sample preparation accessories

Pocket centrifuge, vortex mixer, 10 / 100 / 1000 uL pipettes, filter tips, PCR tubes, tube rack and tablet holder.

SET UP. EXTRACT. AMPLIFY. REVIEW.**1. Set up**

Position the cases on a suitable work surface, connect the equipment and establish the required sample-preparation and amplification areas.

3. Load and amplify

Prepare the PCR reaction, quick-spin if required, load the tubes and select the validated program on the tablet.

2. Prepare and extract

Prepare specimens using the selected assay instructions. Load the prefilled extraction reagents and run magnetic-bead extraction.

4. Review and report

Review amplification curves and controls before interpreting results and completing the reporting workflow.

Use the applicable assay instructions for sample handling, contamination control and quality control.

Technical specifications

Mobile workstation

Transport / capacity	Protective wheeled cases / 50 Ah power supply
Size / maximum weight	52 x 41 x 71 cm / 50 kg

Automated nucleic acid extraction

Method	Magnetic bead extraction
Throughput	1-4 samples per run
Extraction time	8-13 minutes, reagent and protocol dependent
Sample volume	50-500 uL
Reagents	Prepackaged TM-36 series
Decontamination	Ultraviolet lamp
Power	70 VA
Dimensions / weight	190 x 244 x 252 mm / 4.7 kg

16-sample real-time PCR system

Capacity	16 samples
Fluorescence channels	4 channels: FAM / VIC / ROX / CY5
Consumables	0.2 mL thin-walled clear tubes or 8 x 0.2 mL strips
Reaction volume	20-100 uL
Temperature control	Thermoelectric Peltier module
Temperature range / accuracy	0-100 °C / 0.1 °C
Ramp rate	Maximum 6.5 °C/s; average at least 4.5 °C/s
Detection repeatability	CV <=3%
Control / interface	External Windows 10 tablet / USB 2.0
Power	220 W
Dimensions / weight	220 x 200 x 150 mm / 3.5 kg

Battery runtime: up to 8 hours in the source configuration; actual duration depends on equipment load and conditions. Extraction and PCR capacities differ. Timing, assay suitability and regional availability must be confirmed for the selected configuration.