



DRUG HUNTER

Get Trusted Results. Anywhere.

www.drughunter.eu

PRODUCT SUMMARY

Drug Hunter is the first drug analyzer in the world for **immediate quantitative results** in oral fluid (saliva).

The **portability** and user-friendly interface of **Drug Hunter** makes it ideal for use in police departments, customs and borders, prisons, and airport security checkpoints, as well as in hospitals, forensic laboratories, and workplaces.

Testing with **Drug Hunter** is fully automated, it can be deployed in minutes at almost any location for on-site operation.

Identify, Quantify and Estimate the level of impairment.

Drug Hunter allows to identify and quantify the following illegal drugs in oral fluid samples:

- Amphetamine,
- Methamphetamine,
- Ecstasy (MDMA) and its analogs (MDA, MDEA, PMA, PMMA),
- Cocaine and its metabolite cocaethylene,
- Marijuana cannabinoids (THC, CBD) (marijuana use)
- Morphine (heroin use)

Drug Hunter identifies and quantifies the illegal drug even in the multidrug use cases. It covers DRUID (Driving Under the Influence of Drugs, Alcohol and Medicines) recommended equivalent cut-offs in oral fluid samples.

HOW TO OPERATE?

Drug Hunter is very easy to use and requires no scientific or medical background to operate. It has a touch screen and **intuitive user-friendly software** providing clear and simple **step-by-step testing instructions**.

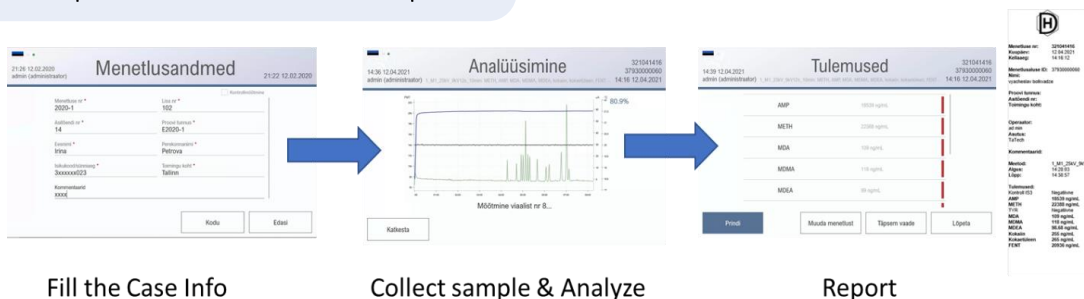
Drug Hunter is designed to minimize the risk of human error.

Drug Hunter automatically runs the self-diagnostics before the analysis. The analyzer indicates the readiness status using an LED strip inside the sample compartment. The analyzer is supplied with the thermostated detection cell, minimizing the fluctuations in the detector response.

Operating **Drug Hunter** is very simple, and no long training is required for personnel to conduct the analysis.

First, the operator fills in the case form (sample name, suspect ID, case #, comments, etc.). Then the sample is collected and inserted into the analyzer. All the steps required for analysis (washing, injection, and electrophoresis) are done inside Drug Hunter automatically.

After the analysis is done (5-8 minutes), the case information and analysis results (list of illegal drugs with concentration levels) are presented in a report. The operator can export the report as PDF, print using the handheld printer, or save it in .csv format if needed.



STEP-BY-STEP INSTRUCTIONS THROUGHOUT THE TESTING



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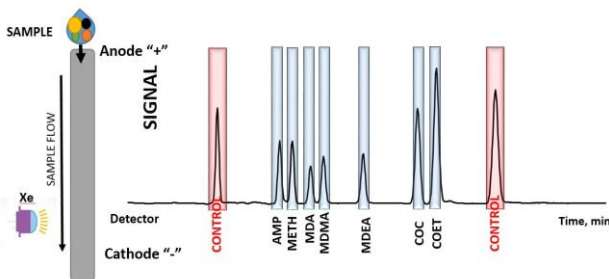
TECHNOLOGY

Drug Hunter combines **Capillary Electrophoresis (CE)** and **native fluorescence**. The technology is protected by the Utility model (EE01411U1) and PCT patent filed (WO2021038112A2).

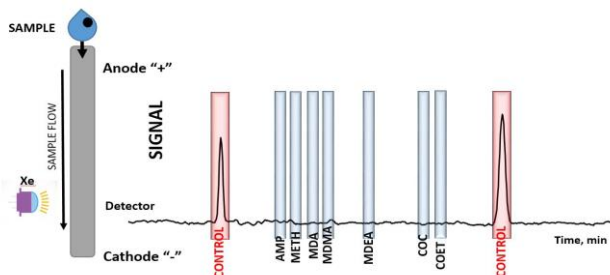
Capillary electrophoresis (CE): **Drug Hunter** utilizes capillary electrophoresis (CE) to separate each illegal drug. CE combines high speed and simplicity, providing excellent separation efficiency.

Native Fluorescence: **Drug Hunter** detects native fluorescence of illegal drugs. Many well-known illegal drugs, their precursors, and other regulated compounds have native fluorescence if excited within $\lambda = 210\text{-}350$ nm wavelength range.

Expert System: **Drug Hunter** Analyzer's expert system automatically identifies and quantifies the illegal drug even in the mixture of illegal drugs in the sample under investigation, generating a report of the analysis.



Positive oral fluid sample



Negative oral fluid sample

NO ORAL FLUID DUE TO THE DRY MOUTH EFFECT?

Drug Hunter has a novel and quick collection procedure, taking only **10-20 seconds**.

Safe, Easy, and Quick



To collect a sample, instruct the donor to rinse the mouth with 5mL saline solution and spit saliva into the collection cup.

TECHNICAL SPECIFICATION

Light source	Pulsed Xenon lamp
Operation principle	Capillary Electrophoresis – Deep UV Fluorescence
Sample cell	1.5 mL Eppendorf vials
PC connection	USB serial port
Control unit	Built-in processor controller
Device verification	Automatic
Ambient operating temperature	15-30°C
Voltage	+12 V DC (AC adapter 100-240 V / 50-60 Hz bundled)
Power consumption	15 W
Dimensions (H x L x W)	39.6 x 39.4 x 35.4 cm
Weight	28 kg
Transportability	Person-Portable
Durability	Not militarized, drop sensitive
Software language	English, Estonian

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