Hisign Drug Detection Machine

Hisign Drug Detection Machine is an integrated on-site drug detection equipment developed with colloidal gold and quantum dot fluorescence technology. It supports drug detection of all types of biological samples such as hair, urine, blood, and saliva. It can detect amphetamines, heroin, ketamine, cocaine, cannabis, F-Ketamine, synthetic cannabinoids, fentanyl and other drugs.

Fingerprint sensor and dual lens camera are integrated to enable identity management and identification of drug abusers by means of fingerprint and face biometrics.

■ DETECTION CAPABILITIES

Key Parameter	Description	Note
Type of Sample	Hair, urine, blood, and saliva	**Detectable substances:**
Examination Method	Colloidal gold, quantum dot fluorescence, Time-resolved fluorescence	● Amphetamine type stimulant, such as methamphetamine and MDMA;
Detectable Drug Types	**Conventional:** amphetamines, heroin, ketamine, cocaine, cannabis,	● Substances containing Morphine and its analogue, such as Methadone, codeine, pholcodine, morphia, heroin, poppy, etc.;
	New Psychoactive Substance: F-Ketamine, synthetic cannabinoids, fentanyl	● Dolantin, ketamine, cocain, tetrahydrocannabinol, tetrahydro-cannabinolic acid
Pretreatment Method of Hair Sample	Cleavage of protein, ultrasonic extraction	Covering more than 99.9% of the items in drug market.
Repetitive Tests	Full range 0.5%	
Time of Detection	<5 minutes	
Accuracy	Full types >= 95%	
Sensitivity	0.1ng/mg	

■ FEATURES

Simplicity of Operation

Users can get started quickly after training

Fast detection

Maximum of 6 samples can be processed and examined in 5 minutes simultaneously.

User Login UI

Main UI of detection and statistics

■ FUNCTIONS

- ◆ Input of drug abusers' information
- ◆ Fingerprint collection of drug abuse suspects
- ◆ Drug abusers information management system
- ◆ Full types biological samples are supported, including hair, urine, blood, and saliva
- ◆ Digital signature is supported
- ◆ Querying of detection results, barcode printing, report printing and statistics are supported
- ◆ User management is provided

■ APPLICATIONS

Criminal investigation

public security

Anti-drugs

Community correction

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