

PUBLIC SAFETY FIELD / DATA SHEET

SAR23-01 Integrated Iris Drug Screening Device

Rapid, non-contact iris screening for field drug-control and personnel screening.

Overview

- SAR23-01 uses iris biometric recognition to support rapid preliminary screening of suspected drug use in field and routine monitoring scenarios.
- Designed for registered personnel, rehabilitation programs, entertainment venues, customs and border inspection, transportation hubs and other supervised screening applications.



Detection Time ≤8 s	Display ≥5.5 in	Connectivity WiFi / 4G	Stored Records ≥10,000
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KEY ADVANTAGES

Features & Field Value

Advantage	Source-supported description
Rapid screening	Results can be obtained in about 5 seconds (source specification).
Broad substance coverage	More than 300 listed substances across traditional, new psychoactive and synthetic drug categories.
Data interoperability	Exchange with compatible public-security and drug-control data platforms.
No routine consumables	No routine consumables required; scan after startup.
Extended standby	4000 mAh lithium battery with fast-charging support and extended standby.
Interactive operation	5.5-inch-class HD display with 10-point touch operation.
Integrated functions	GPS/BeiDou, ID recognition, audio/visual alerts, video/audio recording and local storage.
Portable field design	Handheld binocular-style format for rapid deployment in screening environments.

APPLICATION SCENARIOS

Supervised Screening Environments

Scenario	Source-supported use
On-site case handling	Rapid screening of suspected individuals in enforcement scenarios.
Customs & border inspection	Screening for inbound and outbound personnel.
Transportation hubs	Random screening of travelers and suspicious personnel.
Routine supervision	Routine monitoring in hotels, entertainment venues and similar locations.

Scenario	Source-supported use
Public-sector screening	Screening for military, public-service and other designated personnel.

MEASUREMENT PRINCIPLE

Technical Principle

AI-assisted iris screening

The source material describes an AI-assisted iris screening approach based on observable iris and pupil changes reported within approximately 6 minutes to 48 hours after drug exposure. The algorithm is trained on iris-feature differences between screened and non-screened populations to support rapid identification. The source further associates different classes of substances with characteristic pupil, iris and ocular responses that are evaluated by the system.

PERFORMANCE

Technical Specifications

Item	Specification
Detection time	≤ 8 s
Display	≥ 5.5 in
Identity module	Integrated ID-card recognition
Network connectivity	WiFi / 4G
Indicator – red	Abnormal analysis result
Indicator – green	Normal analysis result
Indicator – blue	Data acquisition / analysis in progress
Voice pickup	Built-in microphone for voice-data acquisition
Data storage capacity	≥ 10,000 person records
Standby time	≥ 14 days at room temperature
Buttons	Power/standby; Shortcut A: iris check + identity verification; Shortcut B: personnel screening

INTEGRATED FUNCTIONS

System Capabilities

Function	Source-supported capability
Rapid iris screening	Fast non-contact iris acquisition for on-site preliminary screening.
Identity verification	Integrated identity-card recognition supports person-to-record association.
Multi-network connectivity	Supports 4G/5G/WiFi/Bluetooth network functions as described in the source.
Positioning	GPS / BeiDou dual-positioning capability.
Evidence recording	Supports video and audio recording and local information storage.

Function	Source-supported capability
Human-machine interface	High-definition display with multi-touch operation and dedicated shortcut keys.

OPERATION

Status Indicators & Controls

Control / Indicator	Function
Red indicator	Analysis result abnormal
Green indicator	Analysis result normal
Blue indicator	Acquisition / analysis in progress
Power / Standby	System power and standby control
Shortcut A	Iris examination and identity verification
Shortcut B	Personnel screening

PRODUCT SELECTION

Model & Configuration

Item	Configuration
Model	SAR23-01
Product	Integrated Iris Drug Screening Device
Screening method	Non-contact iris-based preliminary screening
Network options	WiFi / 4G; source also describes 4G/5G/WiFi/Bluetooth functions
Data capacity	≥10,000 person records

FIELD USE

Product Advantages

Application	Source-supported value
Rapid deployment	Handheld binocular-style format designed for screening environments.
Non-invasive operation	Rapid iris acquisition without routine consumables.
On-site decision support	Indicator lights and audio/visual alerting support immediate result indication.
Record management	Local information storage, video/audio recording and supported network data exchange.

FIELD SCREENING

Application Case



Rapid screening in entertainment venues

Application Case

Entertainment venues can have high personnel flow and require discreet screening. The source material presents the device as a non-invasive option for rapid on-site preliminary screening, with an iris check taking approximately 5 seconds. It may also be used together with other rapid-screening instruments to support secondary checks and improve confidence in field decisions.

WORKFLOW

Screening Logic Overview

Step	Description
1. Identity Association	Capture or verify identity information where required.
2. Iris Acquisition	Acquire iris data using the integrated optical interface.
3. AI Analysis	Analyze captured iris features using the built-in screening model.
4. Result Indication	Display the screening status and corresponding indicator-light result.
5. Record & Connectivity	Store the record locally and synchronize through supported network connections when configured.

CONTACT / SUPPORT

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