

Smart Needle Protector 2 | UN48-2/UN48B-2

Product Introduction

The Smart Needle Collector 2 employs multiple authentication methods, including AI facial recognition and card swiping. Based on image recognition technology, it achieves accurate identification and recycling of broken needles. It can also manage and recycle dangerous tools and spare parts such as blades and scissors. With an optional storage system, it comprehensively records operational data, improving the safety and efficiency of using needles, blades, scissors, and spare parts. It supports MES and ERP integration, helping factories achieve safe and orderly management of dangerous tools and spare parts.

The value of stitching

1. Digital management of the entire process of needles, blades, scissors, and spare parts, saving labor costs.
2. Quick and accurate needle issuance; needle retrieval process takes no more than 15 seconds.
3. AI image recognition needles; broken or damaged needles are forcibly recycled, ensuring safety and order.
4. Accurate, complete, and fully recorded throughout the entire process enhances the company's competitiveness in factory audits.
5. Quickly connect with prison and enterprise information systems to facilitate digital management of the entire factory.

Basic Functions



Smart Operations	Unmanned needle management, with full-process monitoring of procurement, warehousing, and recycling.
Hybrid Management	It can intelligently manage 10 different tools and spare parts, including blades and scissors.
Real-time monitoring	Real-time monitoring of needle issuance and broken/damaged needle recycling; real-time updates of inventory status.
Intelligent Reports	Multidimensional reports and intelligent analysis include 14 types of reports such as needle change, issuance, and recycling records, with 30 related data items that can be exported at any time.
Voice broadcast	Voice prompts and guided operation make it simple and easy to use.
Operating Instructions	Pick and place with indicator lights for quick and easy location.
Permission settings	Different users with different permissions can customize settings including the type, quantity, and time of needle changes.
Function settings	The functionality is configurable, including order business data, redemption process, report records, etc., and can be configured at any time according to needs.
Centralized management platform	The computer management platform synchronizes with the acupuncture device in real time, facilitating simultaneous monitoring of multiple devices.
Data docking	With open interfaces, it supports integration with ERP, MES, and other systems, enabling precise data synchronization.

Product Model	UN48-2	UN48B-2
Cabinet dimensions (width × depth × height)	900x500x1715mm (Main Cabinet) 600x500x1715mm (secondary cabinet)	
Display screen	21.5 inch touchscreen display	
Broken needle identification	AI image recognition with a residual needle recognition rate of >99.9%.	
System Login	AI facial recognition, card swiping, account password (QR code scanning and printing functions are optional).	
External communication	WIFI /RJ45	
Needle capacity	48 sets, 60 pieces per set	
Waste needle recycling methods	Centralized recycling of waste needles (recycling of waste needle containers)	Waste needles are individually packaged and coded for recycling
Number of storage compartments	10 sets (for storing scissors, blades, spare parts, etc.; waste recycling is supported (optional))	
Movement	Bottom casters + feet	
Power supply method	220VAC/50Hz, 2A	