



**Leading the era of digital intelligence
and creating a better life for all**

Company Profile

Shenzhen H&T Intelligent Control Co., Ltd. (Stock Code: 002402) was founded in 2000. With a profound technical background from top universities, the company has focused on the intelligent control field for over two decades and has developed into a global leader in the industry.

The company has consistently used technology as its core growth driver. With over 26 years of industry experience and expertise, it has established a professional R&D team of more than 1,100 people, and has secured more than 2,000 core patents and more than 800 invention patents. Based on the strategic layout of "Global Operation, Global Delivery, Global Service", we have established a comprehensive sales and service network in more than 20 countries and regions worldwide, providing customers with efficient and professional solutions.

The company focuses deeply on cutting-edge technology fields such as home appliances, automotive electronics, power tools, medical electronics, and the Internet of Things. It maintains long-term strategic cooperation with global top enterprises like Electrolux, Philips, Whirlpool, Siemens, and BSH, continuously promoting industry innovation and enhancing corporate value.

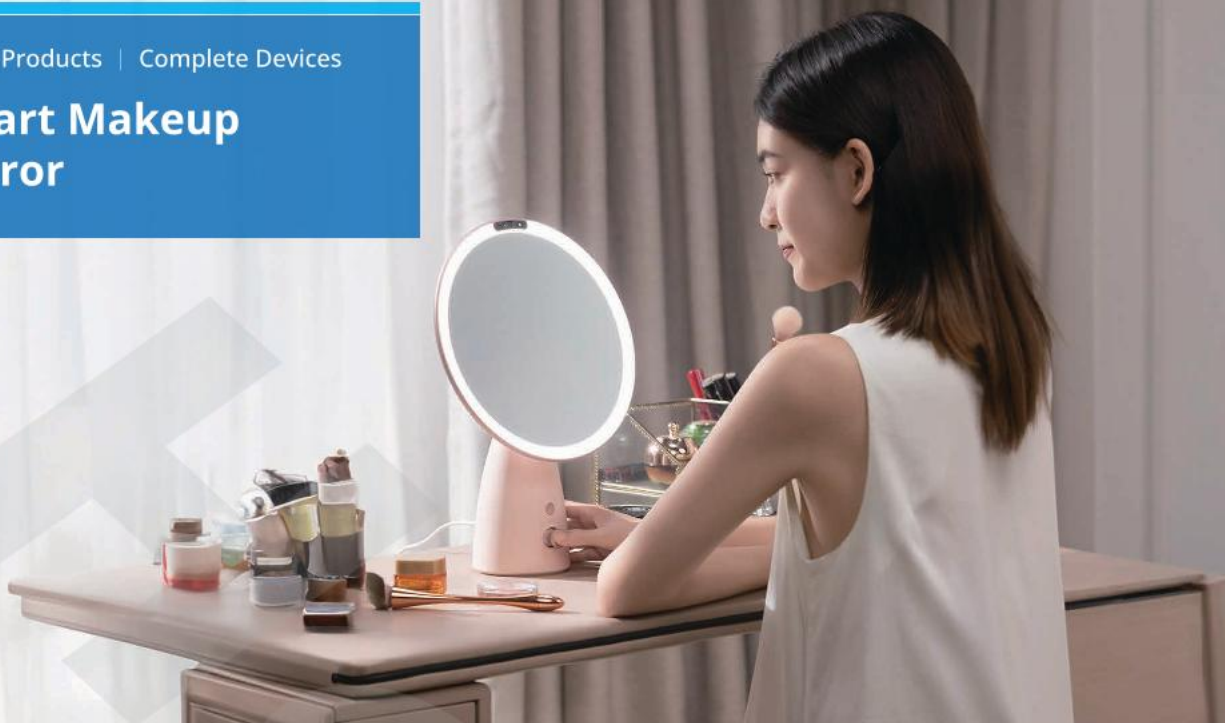
26 Years < Experience >	10+ Billion CNY < Annual Revenue >	23 < Centers >	2000+ < Patents >	300+ < Honors >
 Home Appliances Business	 Power Tool Business	 Automotive Electronics Business	 Medical Electronics Business	 Smart Products Business

Global Footprint



Smart Products | Complete Devices

Smart Makeup Mirror



Solution Overview

This product is a high-end smart makeup mirror integrating skincare detection, makeup assistance, and intelligent interaction. Equipped with hyperspectral imaging and high CRI lighting technology, combined with AI skin analysis algorithms and intelligent agents, it provides personalized skincare recommendations and light simulation.



Key Technologies



Hyperspectral Sunscreen Detection Technology

Through the fusion imaging of RGB + hyperspectral dual cameras, it accurately identifies the uniformity of sunscreen/cosmetic coverage and intuitively displays protection blind spots.



Sunscreen Detection Fusion Imaging Technology

Utilizes algorithms to combine sunscreen effects with facial imaging, intuitively displaying the protection coverage with more aesthetically pleasing results.



Low-Frequency Flash Optical Reflection Technology

Eye-protective design that reduces visual fatigue, providing a safer and healthier experience.



Weather-Adaptive Intelligent Lighting

Adjusts lighting effects according to real-time weather to provide a more comfortable makeup and skincare experience.



High CRI Lighting Technology

Adopts a high CRI ($R_a \geq 97$) lighting group with a brightness of up to 1,500 Lux, ensuring true reproduction of skin texture and makeup colors.

Product Value

By empowering traditional makeup mirrors with AI, this solution provides scientific lighting and intelligent analysis, to provide users with a end-to-end precision service from makeup to skincare, realizing the popularization of a "professional-level beauty advisor" at home.



Precise Sunscreen & Makeup Effect Detection

Uses hyperspectral technology to intuitively present the coverage status of sunscreen/cosmetics, helping users apply makeup precisely, remove makeup thoroughly, and avoid skin burden.



Multi-Scenario Intelligent Lighting

Built-in 9 lighting modes, ranging from natural light to professional lighting environments, meeting makeup adjustment needs for different occasions.



High CRI Lighting

High CRI ($Ra \geq 97$) lighting technology combined with professional optical design, truly restoring facial details and colors, avoiding differences between "filter-like effects" and reality.



Scientific Skincare Advice

AI skin analysis algorithm certified by the China Inspection and Quarantine Society, analyzing skin condition multi-dimensionally and generating personalized care plans.



Intelligent Interactive Companion Experience

Large model intelligent agent provides real-time voice interactive guidance, becoming a user's "skin care steward," enhancing the fun and professionalism of skincare.

Solution Applications



Home Daily Vanity Table



Beauty Influencers /
Professional Makeup Artists



Mall Beauty Counter

Smart Products | Complete Devices

AI Voice and motion- Interactive Plush Toys



Solution Overview

This product integrates voice interaction and somatosensory recognition technology to create a dual-mode interactive experience of "voice + action". It has a built-in rich children's early education content library, featuring both early childhood education and emotional companionship functions.



Key Technologies



Full-Link AI Voice Interaction Technology

Supports local + cloud hybrid voice processing, achieving low-latency continuous dialogue, contextual understanding, and child-friendly voice adaptation.



Multimodal Intent Recognition Engine

Integrates voice commands and somatosensory action data, utilizing large language models to achieve precise intention parsing and personalized content matching.



Multi-sensor and Actuator Fusion Interaction System

Integrates various sensors such as accelerometers, gyroscopes, infrared sensors, and touch sensors, along with actuators like LCD screens and motion motors, to achieve seamless linkage between active environmental perception and physical feedback, enhancing the realism and fun of interaction.



Gamified Educational Function Design

Combines cognitive development with fun interaction, stimulating children's learning interest through mission challenges and achievement mechanisms, making education entertaining.

Product Value

Upgrade traditional plush toys into intelligent partners capable of conversation and teaching through AI technology. This not only meets children's emotional companionship needs but also achieves the early education goal of learning through play in a natural way, creating a growth experience that combines technology and warmth for the new generation of children.



AI-Powered Q&A with Large Language Models

Access multi-platform large model resources, supporting children's encyclopedia Q&A, story creation, and knowledge exploration, stimulating curiosity and learning interest.



Visualized Reports

Generates weekly growth reports based on interaction data to help parents understand their children's interests and cognitive development trajectories.



Immersive Interactive Gaming Experience

Supports real somatosensory interaction, featuring a built-in rich library of role-playing games. Multiple toys can team up for linked play, initiating an immersive entertainment experience.



Massive Early Education Resources for Anytime Learning

Built-in 5000+ high-quality children's content, covering multi-dimensional growth needs such as language enlightenment, logical thinking, and emotional management.

Solution Applications



Home Scenarios



Education Scenarios



Travel Scenarios

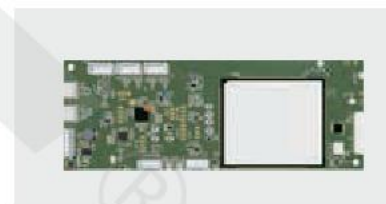
Home Appliances | Kitchen Appliances

AI Intelligent Oven Controller



Solution Overview

This solution integrates large language models, electronic control systems, HMI, IoT communication, and voice recognition technologies to build a complete closed loop from ASR and NLP to LLM-generated responses and HMI execution, realizing voice understanding and steam-baking control.



Key Technologies



Large-Language-Model Integration

Supports access to Doubao / Volcano Engine LLMs, with the ability to continuously upgrade rich AI capabilities via OTA in the future.



Embedded AI Algorithm

Integrates embedded AI algorithms on the device side to optimize recipes based on user taste preferences, device capabilities, and other parameters.



HMI Display & Control Technology

Supports various display technologies and multi-touch interaction to realize parameter adjustment, steam-baking control, and device status display.



PID Precise Temperature Control Algorithm

Utilizes electronic control technology to achieve precise constant temperature control, ensuring that the steam oven can accurately bake ingredients to bring out their best taste.



Voice Interaction Integration Technology

Integrates speech recognition and speech synthesis technologies into the HMI display platform.



High-Speed Core Board Design

Adopts a multi-layer, multi-stage high-speed core board layout design.

Product Value

Reshape the cooking experience with AI and multimodal interaction technology, making the smart oven a personal kitchen assistant that understands user needs, creating a new way of smart living that is extremely convenient and highly personalized.



AI Intelligent Recipe Generation

Accessing cutting-edge AI large model technology empowers the oven to intelligently generate precise recipes, enabling one-tap recipe inspiration.



LLM Technology Integration for Home Appliances

Relying on a high-performance hardware platform and mature voice solutions, it can be easily extended to various types of home appliances, enabling whole-house intelligence.



Multimodal Immersive Interaction

Integrates multiple interaction methods such as TFT touch, voice, camera, audio, and smart sensors to create a smooth and seamless smart kitchen experience.



Personalized Recipe Customization

Dynamically generates personalized recipes based on user preferences, available ingredients, and cooking conditions, making every meal unique.



Semantic Understanding for Precise Cooking

Based on fuzzy semantic recognition, users can simply describe the taste or dish name, and the oven will automatically match the parameters, simplifying the operation process.



Voice Control for Convenient Operation

Supports full-process voice commands, freeing users' hands to focus on cooking creation and improving usability and safety.

Solution Applications



Steam-Bake-Air Fryer Oven



Microwave-Steam Oven



Automatic Cooking Machine / Stir-Fry Cooker

Home Appliances | Kitchen Appliances

Smart Coffee Machine Control and Display Solution



Solution Overview

This solution integrates instant heating, electric control, HMI, temperature and flow control technologies. It supports multi-dimensional adjustments such as water pressure, water volume, and bean amount. Equipped with self-developed heating and detection algorithms, it meets the intelligent control needs of various types of coffee machines and supports one-stop service.



Key Technologies



Thick Film Heating Technology

Adopts a customized thick-film heating element to achieve a 2-in-1 extraction and steam system. The overall machine size is significantly optimized, and energy efficiency is greatly improved, saving over 26% energy.



Capacitive Liquid Level Detection Technology

Utilizing touchless non-contact water detection simplifies the overall machine structure design and enhances product reliability.



AI Intelligent System

The AI control system rationally allocates parameters based on current dosage, grind size, pressure, water temperature, and flow rate to improve the flavor of the next cup.



DC Motor Grinding Technology

Utilizing BLDC grinding, integrating electronic commutation and closed-loop vector control technology, it achieves constant speed and low-speed high-torque startup, ensuring uniform powder and precise dosage. Combined with dynamic speed regulation and stepless structure, it effectively reduces noise, reducing noise and improving durability.



Precise Flow Control

Tailored to different coffee flavors, it precisely controls powder amount, flow rate, water volume, and pressure to ensure consistent flavor extraction every time.



Automatic Powder Tamping and Dispensing Technology

Uses a DC motor to precisely control actions such as powder tamping and knock-out, and features a jam fault detection function.



PID Temperature Control Algorithm

Throughout the entire process from bean to cup, precise temperature control within an error range of $\pm 1^{\circ}\text{C}$ is achieved under extraction, milk foam, and steam modes.

Product Value

Through intelligent collaborative control of multiple parameters, the extraction experience of professional baristas is transformed into precise and stable automated operations, allowing users to obtain a professional-level customized coffee experience with just one click.



Supports Mass Production, Mature and Stable Technology

The technical solution features strong stability and compatibility, applicable to coffee machine products from various brands on the market.



Full Touch Screen Multi-modal Interaction

Equipped with a TFT display, touch operation, and buzzer to provide a rich human-machine interaction experience.



Dual-channel NTC Precise Temperature Control

Utilizing single or dual NTC technology, it achieves precise control over the extraction water temperature, steam, and milk foam temperature, ensuring consistent taste in every cup of coffee.



Brewing Pressure Control

High-precision water pump + valve control achieves stable brewing pressure, ensuring the quality and flavor of every brew.



Diverse Functions and Modes

Supports various modes such as Espresso, Americano, Cappuccino, Latte, and hot water. Allows adjustment of temperature, coffee bean amount, concentration, and milk volume.



Water Level Detection

Through infrared detection, Hall effect detection, capacitive touch detection, and other solutions, it detects if the water tank is low on water and whether the tank is properly placed.

Solution Applications



Automatic Americano
Coffee Machine



Semi-automatic Coffee Machine



Drip Coffee Machine

Industrial Products | Cleaning Solutions

Smart Controller for AC-Powered Vacuum Cleaner



Solution Introduction

Designed for high-performance household cleaning appliances, this solution is built on a 1300W high-power AC motor-driven platform and integrates advanced intelligent control algorithms with ergonomic design. Through the deep integration of "Power Core + Smart Algorithms + Multi-functional Modules," it delivers full-surface cleaning capability—from hard floors to deep carpets—redefining the efficiency and experience of home cleaning.



Key Technologies



Motor Constant-Speed Control Drive Technology

Based on proprietary patented motor constant-speed closed-loop control, this solution collects back-EMF signals in real time to estimate motor speed and dynamically adjusts the driving voltage to maintain constant speed. It effectively solves the problem of incomplete cleaning caused by "speed reduction under load."



Active Balancing & Assist Technology

Combining mechanical design with intelligent sensing, this technology significantly reduces friction and operational resistance during pushing and pulling. With minimal effort, the machine glides smoothly forward.



Industrial-Grade Safety & Protection Architecture

During prolonged high-load operation, the system monitors current and temperature rise in real time, preventing overheating and burnout to ensure product longevity and household electrical safety.



Modular Multi-Functional Brush Head System

The brush head automatically adjusts its angle and power output based on floor type. It also features an automatic hair-tangle cutting function, minimizing manual intervention.

Product Value



Adapts to Multiple Floor Types

Breaks the limitations of single-surface cleaning tools, seamlessly transitioning between hardwood floors in the living room, synthetic carpets in bedrooms, and thick rugs in entryways.



Safeguards a Healthy, Clean Environment

The system effectively traps fine dust and allergens. Combined with front-mounted LED headlights that expose hidden dirt in dark corners, it provides a cleaner, healthier living environment for families with infants and allergy-sensitive users.



Ultimate Convenience Mode

With high flexibility in powered lift-away mode, users can easily switch to handheld cleaning for curtains, sofa gaps, car interiors, and other three-dimensional spaces, making cleaning effortless.

Application Scenarios



Deep Carpet Renewal



Homes with Infants or Allergy-Sensitive Family Members



Tackling Hard-to-Reach Areas in 3D Spaces



Daily Maintenance for Pet-Owning Families

Industrial Products | Cleaning Solutions

Smart Controller for Industrial Vacuum Cleaners



Solution Introduction

This solution centers on sensorless FOC algorithm, integrating key advancements such as over 30 kV ESD protection, robust EMC shielding for harsh environments, and Bluetooth smart connectivity. It effectively addresses industry challenges like insufficient power, static interference, communication disruptions, and maintenance difficulties, helping clients develop high-end cleaning equipment with stronger market competitiveness.



Key Technologies



Sensorless FOC Vector Control Engine

Driven by advanced algorithms, it enables smooth motor start-up, high efficiency, and low-noise operation, delivering stable and powerful performance.



>30kV Ultra-High Anti-Static Design

Reinforced circuitry and communication links withstand electrostatic shocks exceeding 30kV, ensuring reliable operation without failure or malfunction in high-dust, high-static environments.



Stable Bluetooth Communication in High-Interference Settings

Solves industry challenges by maintaining stable Bluetooth connections and uninterrupted data transmission under strong electrostatic/electromagnetic interference, passing rigorous EMC tests.



Industrial-Grade Highly Integrated Control Module

Features an all-in-one design with multiple protection circuits, rugged construction, vibration and dust resistance, and plug-and-play functionality, significantly simplifying client product integration.

Product Value

This solution leverages 30kV anti-static technology and intelligent sensorless FOC algorithms to overcome system failures and communication interruptions in high-ESD environments. It delivers an efficient, stable, and intelligently controlled industrial cleaning power solution.



Powerful, Efficient, and Durable

A. Industrial-grade power delivers strong suction to handle heavy dust and large debris, significantly improving cleaning efficiency.
B. Energy-saving operation extends continuous runtime and reduces energy costs per unit.



Reliable Protection, Secure Operation

A. Resists harsh industrial conditions like high static and strong electromagnetic interference, preventing unexpected downtime.
B. Comprehensive circuit protection against over-current, over-voltage, and motor blocking ensures equipment and personnel safety while reducing after-sales risks.



Smart Upgrades and Simplified Maintenance

A. Bluetooth connectivity enables remote monitoring, parameter adjustment, fault diagnosis, and firmware updates via mobile app, enabling predictive maintenance.
B. Intelligent suction and mode adjustment adapt to different scenarios for easier operation and better user experience.



Integrated Design, Rapid Customization

A. Highly integrated design shortens hardware development and debugging cycles for clients.
B. Broad voltage and motor compatibility, along with an open cooperation model, supports fast customization and accelerates time-to-market.

Application Scenarios



Heavy-duty manufacturing workshops



Construction and building material sites



Warehousing and logistics centers



Specialized fields: chemical, food processing, and similar industries

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Industrial Products | Garden Tools

Garden Tool Controller



Solution Overview

This solution is mainly applied to garden power tools. It adopts dedicated motor control chips and high-performance MCUs, achieving long endurance and strong power through efficient motor control algorithms and optimized power management. It supports sensorless motor drive and lithium battery energy-saving applications, helping customers create environmentally friendly and efficient products.



Key Technologies



Brushless Motor Control Technology

Adopts square wave and FOC technology to achieve precise speed and torque control of brushless motors



Low Power Consumption & Multi-level Protection Mechanism

Combines power management optimization with multi-level current and temperature protection to ensure low energy consumption and system safety



Dual Battery Management & Energy Scheduling Technology

Supports charge-while-in-use strategy to extend system endurance and improve operational continuity



Efficient Heat Dissipation & PCB Design

Performs heat dissipation treatment for power devices and rationally plans the PCB layout of high-power BLDC motor control systems

Product Value

Through high-efficiency motor drive and intelligent power management technology, this product solution achieves a perfect combination of strong power and long endurance, while also taking into account flexible configuration and sustainability and energy efficiency, comprehensively improving users' work efficiency and experience.



High Power Output

Adopts dedicated motor control chips and high-performance MCU+MOS combination to output strong power performance



Long Runtime

Through high-efficiency motor control algorithms and power management, extends usage time, reduces charging frequency, and improves work efficiency



Flexible Dual Battery Configuration

Supports single/dual battery switching and charge-while-use, enhancing flexibility and reducing power waste



Environmental Protection & Energy Saving

Adopts Hall-less motor drive solutions and lithium batteries as power sources to reduce environmental impact



High Efficiency Motor Drive

Utilizes brushless DC motors and high-performance control chips to achieve high-efficiency driving and reduce energy loss

Solution Applications



Lawn Mower



Pruning Shears /
Branch Trimmer



String Trimmer / Weed Eater

Industrial Products | Power Tools

Power Tool Controller



Solution Overview

This solution adopts an efficient brushless motor and battery-powered architecture, integrating multi-mode brushless precision control technology (Square Wave and FOC control), sensorless algorithm, and efficient charging management. It supports various tool applications such as drills, angle grinders, and electric saws. Through high power density design, it achieves strong power output in a compact form factor. Meanwhile, with multiple protection mechanisms, it significantly improves the reliability, safety, and service life of the tools, providing users with an efficient and smooth speed-control experience and convenient integration capability.



Key Technologies



Multi-mode Brushless Precision Control Technology

Applies square wave control and FOC technology to achieve precise speed and torque control of brushless motors



High-efficiency Charging Technology

Adopts efficient charging management chips and power conversion solutions to speed up charging and reduce energy loss



Sensorless Control Algorithm

Realizes sensorless control of brushless motors, simplifying system design and improving reliability

Product Value

With innovative technology and comprehensive protection mechanisms, it provides high-performance, highly reliable, and highly integrated intelligent control solutions for power tools, enabling them to operate efficiently and stably.



High Power Density Output

The controller has high power output capability, compact size, and is easy to integrate into applications



High Reliability

Adopts advanced sensorless drive solutions, reduces sensor dependency, and enhances system stability and durability



Multiple Protection Mechanisms

Built-in protections against under-voltage, over-voltage, locked rotor, short circuit, and open circuit to ensure safe equipment operation



Low Power Consumption

Reduces standby and operating energy consumption through optimized power management and sleep strategies

Solution Applications



Electric Drill



Angle Grinder



Electric Saw

Medical Electronics | Sleep Products

Piezoelectric Thin Film Non-contact Sleep Monitoring Belt



Solution Overview

This product integrates flexible piezoelectric sensing and self-developed algorithms to monitor vital signs such as heart rate, respiration, and body movement during sleep without physical contact. It accurately assesses sleep status, outputs evaluation results, and provides targeted improvement suggestions, making it suitable for home health management.



Product Value

Centered on medical-grade data accuracy, this product ensures continuous data collection through a non-intrusive, non-contact sensing method. It focuses on identifying potential health risks and provides a solid foundation for users' long-term health management, redefining the standard for home sleep monitoring and serving as an excellent example of technology empowering daily health.



Medical-grade Accuracy
and Data Reliability



Comfortable Non-contact
Experience



Focus on Identification
and Early Warning of
Sleep Issues



Empowering a Long-term
Health Management
Ecosystem

Solution Advantages



High-precision Non-contact Vital Signs Monitoring

Capable of real-time monitoring of vital signs such as heart rate, respiratory rate, body movement, and sleep status without the need for wearable devices, with an accuracy of ± 3 BPM.



High Integration

Integrates analog front-end and computing units, supports standard serial port communication protocols, facilitating quick integration into smart mattresses, sofas, pillows, cushions, and other multi-scenario applications.



Multi-scenario Adaptability

Integrated with an adaptive calibration algorithm, compatible with various usage environments after installation.



Comprehensive Monitoring

Real-time detection and tracking of users' health information such as heart rate, respiratory rate, body movement, and sleep status, providing comprehensive physical health data records.

Key Technologies



Flexible Sensor Technologies for Medical and Health Applications

Utilizes flexible resistive, piezoelectric, and electrode sensing technologies to collect and transmit critical physiological data in real-time, providing technical support for disease diagnosis, health monitoring, rehabilitation therapy, and personalized medicine.



Non-contact Human Health Data Collection and Intelligent Analysis Algorithm

Adopts a non-intrusive, non-contact sensing method combined with multi-source data input. Utilizes machine learning, deep learning, and signal processing algorithms to achieve model-based assessment, trend prediction, and early risk warning.



Adaptive Signal Processing Algorithm

Integrates advanced adaptive algorithms that automatically adjust parameters based on signal characteristics, optimize the signal processing flow, and improve the accuracy of monitoring data.

Solution Applications



Smart Mattress



Smart Pillow

Medical Electronics | Sleep Products

Sleep Respiration Monitor



Solution Overview

This product can serve as a convenient home-screening alternative or supplement to traditional PSG systems, allowing patients to complete professional-grade sleep respiratory monitoring at home, significantly improving convenience and compliance. It is suitable for home screening and primary medical sleep initial screening scenarios.



Product Value

This product represents a revolutionary reconstruction of a professional medical diagnosis scenario, making it "home-based" and "lightweight." It not only pursues medical-grade precision in technology but also places strong emphasis on user comfort and accessibility and accessibility in terms of experience. It breaks down the barriers between professional healthcare and home life, serving as a model in the field of "consumer healthcare," truly empowering everyone's healthy life with technology.



Medical-Grade
Precision
and Reliability



Naturalness and
Authenticity
in Home Scenarios



Immersive / Lightweight
and Comfortable
Experience



Long-term Value of
Digital and Continuous
Monitoring

Solution Advantages



High-Precision Non-contact Physiological Sign Monitoring

Real-time monitoring of vital signs such as heart rate, respiratory rate, body movement, and sleep status without the need for wearable devices, with an accuracy of ± 3 BPM.



Full-process Monitoring

Real-time detection and tracking of users' health information such as heart rate, respiratory rate, body movement, and sleep status, providing users with comprehensive physical health data records.



Multi-scenario Adaptability

Integrates an adaptive calibration algorithm, compatible with various usage environments after installation.



High Integration

Integrates analog front-end and computing units, supports standard serial port communication protocols, facilitating quick integration into smart mattresses, sofas, pillows, cushions, and other multi-scenario applications.

Key Technologies



Medical-Grade Multi-dimensional Respiratory Data Acquisition and Analysis Technology

Based on medical-grade sensors and intelligent algorithms, it performs multi-dimensional, high-precision, and real-time acquisition of physiological parameters, airflow characteristics, respiratory mechanics, and related environmental data during human sleep, and conducts real-time comprehensive analysis to provide data support for auxiliary diagnosis.



Automatic Sleep Respiratory Event Detection Algorithm

Based on multi-dimensional physiological data (such as respiratory airflow, chest/abdominal movement, blood oxygen saturation, heart rate, etc.), it uses technologies such as machine learning, signal processing, or rule engines to automatically detect, classify, and quantify abnormal respiratory events during sleep.

Solution Applications



Sleep Respiratory Scenario

Medical Electronics | Medical Consumables Products

Micro QR Code Tracking Solution for Medical Consumables



Solution Overview

This solution brings traditional medical device management into a new era of digital intelligence and insight. It helps hospitals and manufacturers ensure compliance, enhance safety, and achieve full lifecycle traceability management of consumables, representing a strategically critical technology in the field of the Internet of Medical Things (IoMT).



Product Value

This solution uses micro QR codes to implement "one code per item" for consumables and achieve closed-loop traceability throughout the entire process, empowering lean management, enhancing compliance and anti-counterfeiting, improving transparency, and safeguarding the safety of medical device use.



Miniaturized
Identification
Technology, Achieving
"One Item, One Code"



Full-link Closed-loop
Traceability,
Empowering
Lean Management



Enhanced Security
and Compliance,
Meeting Medical
Regulatory
Requirements



Eliminating Counterfeit
and Substandard
Consumables,
Enhancing Transparency
in Consumables
Management

Solution Advantages



High-precision QR Code Recognition Capability

Capable of stably recognizing QR codes as small as 1 mm × 1 mm



Second-level Rapid Recognition Performance

Fast scanning with an average recognition time as low as 1 second and a single recognition success rate higher than 99%, improving scanning efficiency and user experience.



Edge Computing Lightweight Deployment

Deep learning recognition models are quantized and optimized; even in low-power operation mode, they maintain high recognition accuracy, balancing performance and energy consumption control.

Key Technologies



Dynamic Motion Tolerance Compensation Algorithm

For dynamic systems (such as mechanical devices, robots, automated equipment, etc.), it performs real-time detection, analysis, and correction of motion deviations caused by physical errors, environmental interference, control latency, or parameter changes during movement through algorithmic means.



Low-noise Image Enhancement Algorithm

While suppressing noise interference, it enhances image details, contrast, and visual readability.

Solution Application



Medical Consumables



Leading the era of digital intelligence
and creating a better life for all

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