

PHYSICAL EXAMINATION DEVICES

SMART PROFESSIONAL CONVENIENT

We autonomously developed and produce 8 series with over 20 models of health examination devices, all of which could be connected and communicated mutually, are capable of providing comprehensive smart detection. Combined with the health cloud platform, a comprehensive self-service non-invasive examination solution could be provided.

DongHuaYuan--Dedicated to being smarter





30+
YEARS OF PROGRESS

30+
BRANCHES

80+
NATIONAL PATENTS

50000+
CONTRACTED CLIENTS

Innovation changes the world

Beijing Donghuayuan Medical Equipment Co., Ltd. (hereinafter referred to as "Donghuayuan Medical") is located in Changping block of Zhongguancun Science and Technology Park, Beijing. It was established in 1991 and has a history of 30 years. Donghuayuan Medical is a key high-tech enterprise under the National Torch Program, and is a leading supplier of decoction equipment and health examination equipment in China.

Donghuayuan Medical implements a standardizing strategy and is the responsible unit for China's industry standard and national standard "Traditional Chinese Medicine-Decocting Machine" (GB/T 30219-2013), as well as The leading formulation unit over the international standard "Traditional Chinese medicine -- Herbal decoction apparatus" (ISO18665:2015) and attained the international ISO9001 quality system certification and ISO13485 medical device quality Control and Management system certification in 2005. In 2007, it attained the German Rheinland Testing Certification and CE Product Safety Quality Certification, and the product quality, safety, and service have reached EU standards.

Donghuayuan Medical possesses over 80 national patents and, relying on its own research and development advantages, has launched more than 40 models among 10 series of TCM decocting and packaging equipments. Meanwhile, utilizing brand and technological advantages, we have developed more

than 20 models among 8 series of medical health examination devices, including body composition analyzer, heart rate variability detector, arteriosclerosis detector, Automatic-inflation electronic sphygmomanometers, and ultrasonic bone densitometer etc. The modernized decoction center and health hut launched by Donghuayuan Medical are two innovative service projects in the fields of traditional Chinese medicine decoction services and health examinations. They are currently widely used in hospitals, herbal slice processing enterprises, community health service centers, aged seniors care, and real estate industries. In 2018, the "fully automatic decoction production line" was put into operation and was rated as the first major technical equipment experiment and demonstration project in Zhongguancun. In 2019, the "smart Dispensing System for TCM herbal Slices" was officially launched, marking a revolutionary change in TCM herbal slices dispensing.

Donghuayuan Medical has established China's first standardized production base for decoction machines, through continuously reforming and innovating in production processes and quality control. After thirty years of development, Donghuayuan Medical has established a complete R&D and production industrial bases scattered in Beijing, Jilin, and Cangzhou, as well as 30 wholly-owned direct branches and offices nationwide, all of which empower us to provide high-quality services with a nationwide direct sales network.

Donghuayuan Medical has gradually formed a standardized modern enterprise management mode through a series of corporate strategic planning, organizational construction, institutional construction, and corporate culture construction. The company has a corporate vision of "concrete base for great cause, cast brand of global class", and a mission of "leading new changes in the medical industry and launching better products and services". It always adheres to the quality policy of "quality is the life of the enterprise" and has established a rigorous quality assurance system; Adhering to the service concept of "caring and catering", we have won the recognition and trust of more than 50000 end users, including research institutes, hospitals, clinics, pharmacies, home and abroad.

BODY COMPOSITION ANALYZER

SPECIALLY DEVELOPED FOR YOUR HEALTH

WHY IS DONGHUAYUAN MEDICAL'S BCA SO TRUSTFUL DEEPLY

Donghuayuan Medical's Body Composition Analyzer (BCA) adopts multiple patented technology, successfully developed through years of dedicated effort. Multiple models are available, of which the most suitable one could cater into your specific need.

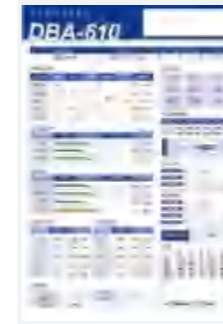
All the time, Donghuayuan Medical's BCA has been recognized and trusted by customers, by virtue of precise measurement and analysis, diverse styling designs, wide applicability, targeted functional features, and excellent service system. Firmly occupy an advantageous position in market competition.



DBA-610 BODY COMPOSITION ANALYZER

Technical Parameters

Measurement method:	8-point contact electrode, Bioelectrical impedance measurement method
Display:	10.4" touch LCD screen, resolution 1024X768
Frequency:	1, 5, 50, 250, 500, 1000KHz
Report Content:	Body composition, Children feature, Nutrition prescription
Measurement Duration:	complete test in 1 minute.
Report Sheet:	Exclusive, plain A4 Paper
Impedance Range:	20—1200Ω

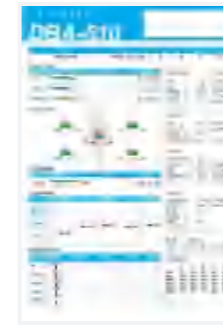


◀ DBA-610 Composition Analysis Report Test item

Body composition analysis: body weight, intracellular fluid, extracellular fluid, protein, inorganic salt, body fat, total water, muscle mass, fat-free body weight and extraosseous weight
Muscle&fat analysis: skeletal muscle mass, body fat mass, body weight

Obesity analysis: Body mass index, fat percentage, waist/hip ratio, visceral fat area
Segmental muscle

analysis: segmental fat analysis, weight control, shape judgement, segmental oedema index, nutritional assessment, muscle assessment, total body Score



◀ Body moisture analysis Report Test item

Body moisture composition, segmental moisture analysis, body oedema index, body moisture history

Body composition analysis: bone minerals, protein, inorganic salt, body fat content, and fat-free weight

Muscle analysis: limb skeletal muscle index, muscle mass, skeletal muscle mass, muscle mass index

Obesity analysis: obesity level, body mass index, fat percentage, waist/hip ratio, visceral fat area

Other items: basal metabolism volume, body cell volume, TBW/FFM, fat index, upper arm circumference, upper arm muscle circumference, phase angle, bioelectrical impedance



◀ Body circumference Report Test item

Peripheral circumference of the neck, peripheral circumference of right arm, left arm, right thigh, left thigh, chest, and abdomen, muscle circumference, and fat thickness



◀ Nutrition prescription Report Test item

Nutrition prescription: Precautions for overweight and obesity management; Suggestions for a total 21 sets of nutritional packages in the morning, noon, and evening of one week.

Nutritional dietary principle: reasonable three-meal match, daily energy intake recommendations, main nutrients, and principles of fat reduction and fitness.

Exercise prescription: 4 sets of exercise plans for daily, low strength, moderate strength, and high strength



◀ Special report for Child Test item

Body composition: total moisture, muscle mass, fat free weight, body weight, intracellular fluid, extracellular fluid, protein, inorganic salt, body fat mass

Muscle fat analysis: body weight, skeletal muscle mass, and body fat mass

Obesity analysis: Body mass index, fat percentage, waist/hip ratio, visceral fat area

Weight control: target weight, weight control, muscle control, fat control, basal metabolism
Segment muscle analysis, height curve, weight curve, nutritional assessment, muscle assessment, total body score

DBA-P100 BODY COMPOSITION ANALYZER

Technical Parameters:

Measurement method:	8-point contact electrode,BIA
Test Gesture:	Standing, sitting and lying-down
Frequency:	1, 5, 50, 250, 500, 1000KHz
Display:	10.1"touch LCD screen, resolution1280*800
Test Duration:	complete test in 1 minute.
Impedance Range:	20—1200Ω

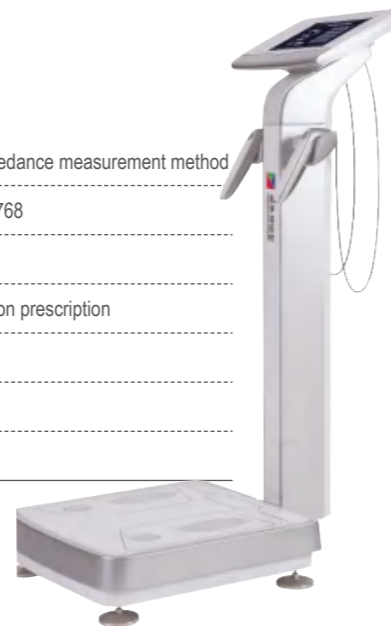


BCA (lying-down type) Test Report

DBA-550 BODY COMPOSITION ANALYZER

Technical Parameters:

Measurement method:	8-point contact electrode,Bioelectrical impedance measurement method
Display:	10.4"touch LCD screen, resolution1024X768
Frequency:	1, 5, 50, 250, 500, 1000KHz
Report Content:	Body composition,Children feature, Nutrition prescription
Measurement Duration:	complete test in 1 minute.
Report Sheet:	Exclusive, plain A4 Paper
Impedance Range:	20—1200Ω



DBA-550 Composition Analysis Report

DBA-510 BODY COMPOSITION ANALYZER

Technical Parameters:

Measurement method:	8-point contact electrode,Bioelectrical impedance measurement method
Display:	9.7"touch LCD screen, resolution1024X768
Report Sheet:	Exclusive, Plain A4 paper
Frequency:	1, 5, 50, 250, 500kHz
Report Content:	Body composition, Nutrition prescription
Measurement Duration:	complete test in 1 minute.
Impedance Range:	20—1200Ω



DBA-510 Composition Analysis Report

DBA-310 BODY COMPOSITION ANALYZER

Technical Parameters:

Measurement method:	8-point contact electrode,Bioelectrical impedance measurement method
Display:	8" touch LCD screen, resolution 800×600
Frequency:	1, 5, 50, 250 kHz
Report Sheet:	Exclusive, plain A4 Paper
Measurement Duration:	complete test in 1 minute.
Report Content:	Body composition,Children feature
Impedance Range:	20—1200Ω



DBA-310 Composition Analysis Report

DBA-210 BODY COMPOSITION ANALYZER

Technical Parameters:

Measurement method:	8-point contact electrode,Bioelectrical impedance measurement method
Display:	7" touch LCD screen, resolution 800×480
Report Sheet:	Exclusive, plain A4 Paper
Frequency:	5, 50, 250 KHz
Report Content:	Body composition
Measurement Duration:	complete test in 1 minute.
Impedance Range:	20—1200Ω



DBA-210 Composition Analysis Report

Automatic-inflation electronic sphygmomanometers

Automatic-inflation electronic sphygmomanometers (hereinafter referred to as blood pressure meter) is a professional medical device that can accurately measure systolic blood pressure, diastolic blood pressure, and pulse data.

Introduction

The blood pressure meter is based on the principle of oscillography, and during the process of boosting measurement, by compressing the artery through the inflatable cuff. It varies from fully open to semi closed to fully blocked. Pressure Sensors convert pressure amplitude changes into digital signals and transfer to CPU, the embedded software is used to analyze and identify the corresponding pressure points during the process of blood flow obstruction inside the artery to determine the Systolic and diastolic pressure.

In comparison, during the boosting process, the measurement time is shortened, meanwhile the physiological and psychological discomfort caused by the pressure on the subject's arm could be relieved and the subject could feel appropriate measurement status, which together makes the results more accurate and reliable.



Extended function*

Voice prompt function: It can clearly guide the measuring steps through voice, and voice volume could be adjusted with six levels to meet the needs of the seniors.

Detection mode: Normal mode or static pressure mode can be selected according to needs

Measurement mode: Multiple measurement and output modes

Historical query: On the data management page, you can search by ID number, name, age, time, etc. to query, print, backup, and delete data. Historical data can be stored in over 100000 sets, supporting subjects' blood pressure variation to be tracked*

Overpressure protection: The blood pressure meter is equipped with an overpressure protection function. When the cuff pressure exceeds the overpressure protection value of 40.0kPa (300mmHg), the blood pressure meter can automatically relieve pressure

Emergency stop: The blood pressure monitor is equipped with an overpressure protection function. When the cuff pressure exceeds the overvoltage protection value of 40.0kPa (300mmHg), the blood pressure monitor can automatically relieve pressure

Detailed settings: If the blood pressure monitor needs to stop inflating and release the air pressure during the inflation process, the "Stop" button can be pressed. If the stop button fails, the "Emergency Stop" button can be pressed to immediately deflate. The screen time display, version number query, volume setting, unit switching, and other operations can be changed through system setting

*Note: function may vary between different versions.

Demonstration



YXY-61P basic model | LED Screen

Smart boosting, improving quality and lifespan

Display: LED digital display

Communication: RS-232

Data query: ≤100 records/100



YXY-61 upgrade | LCD crystal screen

Wide extension, friendly interface

Display: LCD

Communication: RS-232, USB, SD

Data query: ≥3000 records, subject to exporting



YXY-61 EXPERT model | Android system with LCD screen

Touch screen, stronger extension, convenient information management, safe and reliable data

Display: Android system with LCD screen

Communication: RS-232, wireless, USB, SD, multiple extension

Data query: ≥100 thousand historic records, providing 5 kinds of query

Historic curve: providing historic curve with latest 5 times results



YXY-30 Portable for inpatient follow-up

Portable design, large backlight screen

Display: LCD digital display

Portable device: portable design, convenient to take

Auscultation model: optional for two test models

Communication: data transfer by wifi (optional)

Height and weight scale

DST-500 Ultrasonic height and weight scale

This product is scale used to measure the weight and height of the human body. It is composed of weight and height measuring structure, signal processing, voice and display printing components. Measurement result could be broadcasted and played on the screen and printed through a thermal printer, providing information on height, weight, body Mass Index and other information, with communication via serial port. It can be connected to health management software.

Function feature

Better scalability: Can be connected to a computer, RS-232 standard.

Balance adjustable: The base is equipped with a level gauge and can be leveled through four corners.

More accurate measurement: Equipped with temperature compensation function, ensuring accurate measurement under different temperature states.

More efficient detection: Measurement speed \geq 480 person times/hour.

Two measurement modes: with cyclic self-check mode/weight measurement and height measurement mode.

Technical Parameters:

Height measurement method:	ultrasonic measurement
Measurement items:	height, weight, body mass index (BMI)
Measuring range:	Height 70-200 cm Weight 2-200 kg
Accuracy class:	Weight III Height ± 5 mm
Definition:	Height 1 mm Weight 100g
Display interface:	LED digital display
Printer:	Thermal printer
Communication function:	RS-232
Extension:	LCD display screen; Foldable; Support for manual input or scan reading personal ID; Historical data curve; able to connect wireless WiFi and Bluetooth



Heart rate variability detector

Introduction:

The heart rate variability detector (mental stress analyzer) is a fast and non-invasive medical device that uses the heart rate variability (HRV) theory to detect small changes in the instantaneous cardiac cycle, to judge the activity and balance of the sympathetic and parasympathetic nerves, so as to evaluate and analyze the overall physical and mental state of the subject, such as physical fatigue, compressive strength, pressure index, autonomic nervous system activity and balance.



Feature

Quick operation: The operation process takes 5 minutes, with multiple modes available*

Full non-invasive: non-invasive detection, user-friendly design, radiation free

Easy to use: Using finger clip sensors for automatic measurement

Compliant with standards: Comply with European Cardiovascular Society (ESC), North American Pacing and Electrophysiology Society

Dual domain analysis: The theoretical standards for HRV developed by NASPE quantitative evaluation in both time and frequency domains, with objective and accurate numerical values

Quantitative analysis: Quantitative analysis of autonomic nervous system (ANS) and observation of ANS

Activity analysis: Analyze sympathetic and parasympathetic nerve activity to judge physical and mental stress degree and fatigue level

Scientifically accurate: automatically generate a comprehensive HRV analysis report to assess overall mental health status

Product Function

Balance check of autonomic nervous system

Detection and analysis of mental and physical stress

Early detection of mental disorders such as depression, anxiety, and PTSD

Evaluate the pathological process and development trend of diseases related to autonomic nervous system

Vascular aging and blood circulation testing*

Evaluation of therapeutic efficacy

*There are functional differences between different models and versions of devices. It is subject to change and update without prior notice.

DHD-6000 Heart rate variability detector-Basic

Structure:	Trolley type
Screen:	19"LCD display
Product principle:	HRV
Detection mode:	one type
Print report:	4 sheets
Report items:	≥14
Other instructions:	Applicable to medical institutions and health management units at all levels



DHD-6000 Heart rate variability detector-Portable

Structure:	Portable
Screen:	10.4"touch LCD screen
Product principle:	HRV
Detection mode:	one type
Print report:	4 sheets
Report items:	≥14
Other instructions:	Applicable to medical institutions at all levels and follow-up consultations and other examinations



DHD-6000 Heart rate variability detector-Quadruple

Structure:	Trolley type
Screen:	19"LCD monitor
Product principle:	HRV+APGHRV+APG
Detection mode:	three
Print report:	5 sheets * 4 persons
Report items:	Multiple-person measurement mode
Other instructions:	Suitable for the general survey and testing of professional medical examination centers, large enterprises and institutions, and other large populations



DHD-6000 Heart rate variability detector-Expert

Structure:	dedicated integrated trolley
Screen:	15.6"touch LCD screen
Product principle:	HRV+APG
Detection mode:	three
Print report:	5 sheets
Report items:	≥20
Expanding functions:	reports can be customized, supporting simplified mode, and short-term testing.
Other instructions:	Suitable for comprehensive testing in clinical institutions, physical examination centers, and professional study in teaching, learning and research



Arteriosclerosis detector

It is used for the early detection of systemic atherosclerosis and atherosclerosis and the detection and assessment of vascular disease risk. Oscilloscopic method, parameter analysis method and elastic chamber theory method are jointly used to provide multiple detection indicators for clinical arteriosclerosis diagnosis by combining multiple information such as pulse wave oscillogram, PWV and age trend analysis diagram, limb blood pressure diagram, ABI analysis diagram, STI cardiac function assessment diagram, etc.



Principle

Oscilloscopic method, parameter analysis method and elastic chamber theory method

Feature

Better experience

- Multiple detection modes:** limb synchronization and limb asynchrony (safety mode), manual and automatic compression, safer and easier to operate.
- Multiple report settings:** automatic evaluation of results, or manual output of reports by doctors in combination with clinical practice.
- Multiple query methods:** name, ID, inspection date, serial number, etc.
- Automatic maintenance function:** Users can conduct their own airtightness testing of the gas path.
- Extended usage function:** optional with more popular graphic and text reports, optional with dual-bed mode, can be used as a portable device for convenience.

More convenient management

- Networking:** It can save images of report sheet, doctor opinions, and examination parameters, supporting connection to information platforms to share data.
- Information collection:** Support the use of manual input, ID card reading, medical insurance card reading, self-made card reading, and scanning gun reading of personal information to collect subject's information, which could improve the efficiency.
- Support the connection of devices such as blood pressure monitor and body composition analyzer, and use health management software to provide more comprehensive blood pressure and arteriosclerosis management solutions.**

More professional study value

- TBI (toe brachial index):** This index is a commonly used index for preliminary screening of lower limb ischemia in type II diabetes.
- ABI (Ankle Arm Index):** This indicator is an important clinical indicator for judging lower limb artery occlusion.
- ECG (electrocardiogram waveform), PCG (heart sound waveform):** This is an important clinical indicator for judging lower limb arterial obstruction. Combining with heart sound S1, S2, P waves, QRS complex, T waves, etc., clinical diagnosis is more valuable.

DAS-1000 Arteriosclerosis detector

Major measuring data:

Ankle-brachial index

- Ankle brachial index is a measure of possibility of lower limb arterial obstruction by calculating the blood pressure ratio of the upper and lower limbs. It is the ratio of highest ankle systolic blood pressure to highest humeral systolic blood pressure.
- ABI=ankle systolic pressure/upper arm systolic pressure



DAS-1000 Arteriosclerosis detector



DAS-1000 portable Arteriosclerosis detector

PWV: pulse wave conduction velocity

- PWV refers to the conducting velocity of pulse waves propagating from one specific location of an artery to another, and is classic indicator evaluating the artery hardness.
- Using conventional methods to synchronously record pressure pulsation signals (i.e. pressure waves) at two locations within the blood vessel at a certain distance apart, then measure the time that a representative point in the pressure waveform (such as the point at which the pressure reaches its maximum value or when the pressure begins to rise) takes to propagate within the said distance, i.e. the pulse wave conduction time. It can reflect the elasticity of the large arteries very well, it is a classic indicator for evaluating arterial hardness.
- The normal value is <1400cm/s, value above which indicates an increase in arterial hardness. The higher value the harder vascular wall. It can reflect the degree of arteriosclerosis, related to abnormal blood lipids and blood pressure.

DAS-3000 Arteriosclerosis detector

Major measuring data:

PWV (pulse wave conduction velocity) | Ankle-brachial index

Heart sound and electrocardiogram

- Heart sound and electrocardiogram are basic indicators for assisting in checking heart rate and cardiac function.
- Combining phonocardiogram and electrocardiogram can provide a more comprehensive assessment of the risk of cardiovascular disease.

TBI (toe brachial index)

- Indicator for evaluating the state of lower limb arteries to peripheral blood vessels. Usually used as a common indicator for primary screening for lower limb ischemia in type II diabetes.
- TBI is recommended to be detected when ABI ≥ 1.3 in patients with type II diabetes. TBI indicators can be effective for early disease diagnosis, compared to ABI examination, TBI can provide more timely early disease diagnosis and is beneficial for later clinical treatment.
- TBI=toe artery systolic pressure/upper arm brachial artery systolic pressure.

Flemingham analysis

- It can be inferred that the blood vessel age of the subject and the risk of cardiovascular disease, meanwhile also conduct comparison of blood vessel health condition with peers.



TCM constitution identifier

Working principle

Based on the "Classification and Judgment of TCM Constitution" standard, using modern computer technology, standardization technology, by virtue of scientific algorithms and intelligent judgment with software, analyze the data collected by survey, automatically generate a physical fitness report, and obtain information such as the physical type, physical feature, and psychological characteristics of the subject. The health regulation system identifies the body's constitution and combines it with the classic TCM prescription, providing personalized diet, medication, and fitness plans.

It can be matched with an ID card reader (optional) to connect to the health management software system.

CD210 TCM constitution identifier

- Commercial computer host, Win7 operating system
- 19 inch colorful LCD display screen
- HP colorful inkjet printer
- ID card reader (optional)
- Mouse, keyboard



CD310 TCM constitution identifier

- Integrated streamline design
- 21.5 inch capacitive touch screen, multi-touch
- Operating System Win10 Professional 64-bit
- Ability to access an ID card reader (optional), Easy to collect residents' health data



Mental health assessing system

- Model:** DPT-100
- OS:** Win10 operating system
- Monitor:** ≥ 21.5-inch LCD capacitor screen with a resolution of 1920x1080, waterproof, antimagnetic, dustproof, and oil resistant
- Control way:** Mouse or touch. extendable to access QR code scanning and ID card reader (optional) to recognize ID for easy collection of residents' health data
- Product structure:** The device is designed as an integrated structure
- Certification:** Possessing a software copyright certificate
- Evaluation and Measurement Table:** Including Adult Psychological Stress Scale, Elderly Depression Scale, Self Rating Anxiety Scale, Self Rating Depression Scale, Cartel 16 Personality Factor Questionnaire, Middle School Student Mental Health Scale, Patient Quality of Life Assessment Questionnaire, Pittsburgh Sleep Quality Test, Children's Loneliness Scale, Health Promotion Lifestyle Scale, and other 18-item Physical evaluation measurement table
- Self-selected scale:** The scales cover various age groups and populations, and users can choose scales for evaluation based on their own situation



Ultrasonic bone densitometer

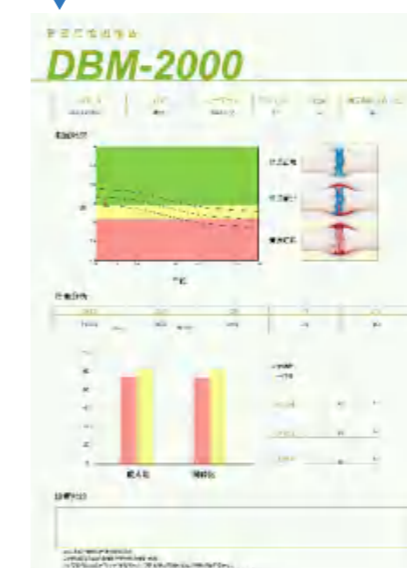
By measuring bone density, osteoporosis can be screened and the risk of fractures can be predicted. At present, the measurement methods for bone density include single photon (SPA) and dual energy X-ray (DEXA) and ultrasonic technology, among which ultrasonic bone density measurement technology uses ultrasonic to evaluate the quality of bone based on material density, structure, and the acoustic characteristic parameters of material, which has good correlation with the dual energy X-ray (DEXA) detection method, is a safe and effective way.

DBM-2000 Ultrasonic bone densitometer

- Professional and accurate**
Medical class equipment, clinically verified, able to screen Osteoporosis by measuring bone density and predicting the risk of fracture
- Fast and safe**
Without radiation, measurement is convenient and fast
- Extendable**
accessible to other system via densitometer software
- Intelligent analysis**
Fully automatic detection device, user-friendly operation, easy to achieve autonomous measurement, complete measurement records can be clearly displayed on the display screen or printed out.



Printed report (major indicators analysis)



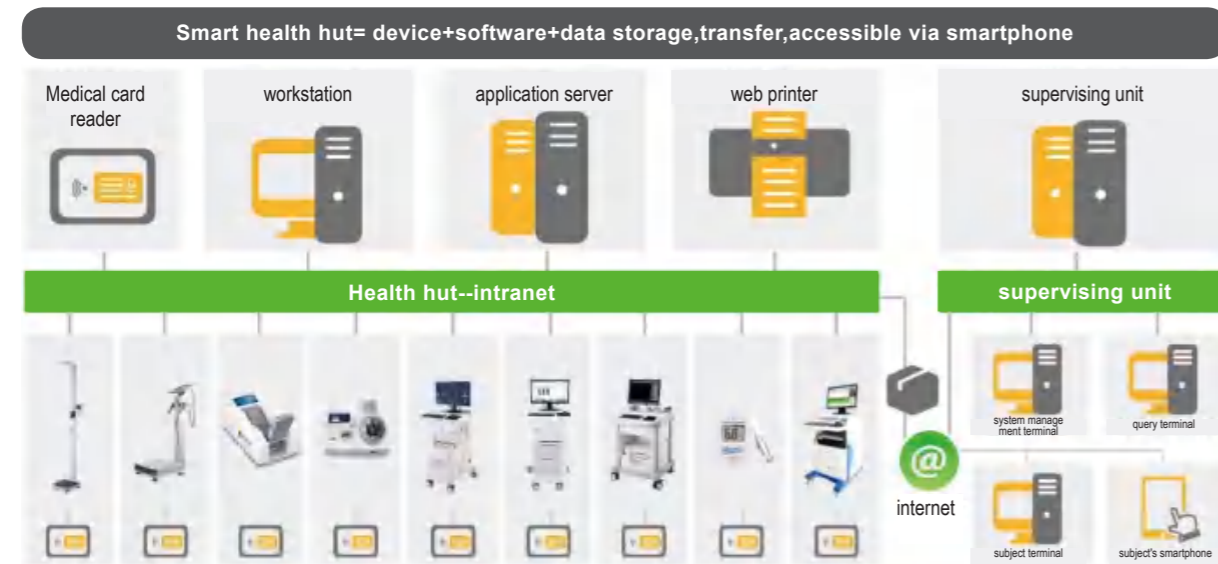
- Green: Above -1.0 SD normal
- Yellow: -1.0 SD -2.5 SD bone loss
- Red: osteoporosis below -2.5 SD

*The normal measurement range of SOS is 1300~1400. If the result is higher than this, remeasure by performing QC calibration.

HEALTH HUT

Based on internet + innovative health service platform

Health hut structure

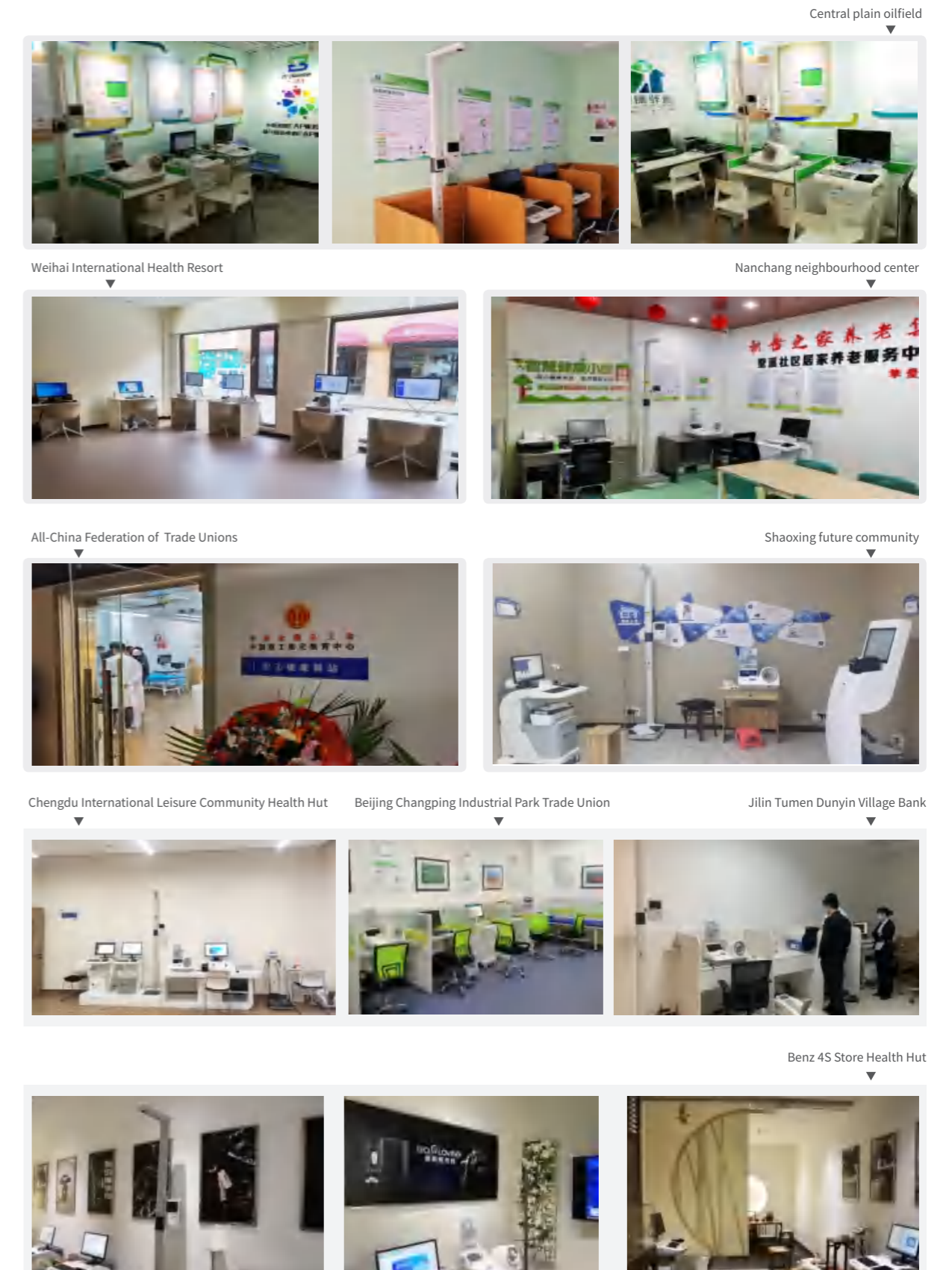


Overall solution

Health cloud platform solution

- Policy making support**
 By using the health hut database of supervisory department, it is convenient to conduct statistical analysis and control of all branches.
- Large screen monitor**
 The medical workstation can be connected to a large screen to monitor the operation of various medical devices and the testing process of various subjects.
- Advanced reading measures**
 It can recognize various information cards such as ID cards, social security cards, student cards, and self-made cards. The card reader could directly read the cardholder's information. In addition, it has facial recognition function supporting passive code scanning on mobile phones (mini programs) to conduct physical examination.
- Internet function**
 Powerful access to internet enables data uploading to the upper server for easy management and control.
- Deep automatization**
 From registration to test report, there is no need for staff to input data, and photos and information of the subject can be automatically obtained.
- Rich means of report access**
 - PC
 - Mini wechat app
 - Web
 - Official wechat account
 - Email
 - Query self-service machine

Typical health hut testimonial



As of the end of 2021, Donghuayuan Medical has established more than 1500 health huts across the country to assist in the construction of a healthy China.