High Tech corporation smart nexus

ISO KIA

ISO KIA

Smart Solutions & Modular Operating Theater Catalogue

Integrated Modular Operating Room

Integration Parts
- Seal
- Ceiling & Floor
  Integration Parts

Modular Panels
- Stainless Steel Modular
  Panels
- Glass modular panels

Surgical Light

Laminar Air Flow (LAF)

Intercom

**Operating Room
Management Systems (ORMS)**

**Operating Room
Door**

**Human Machine
Interface (HMI)**

**Operating Room
Flooring**

**Operating Room
Ceiling**

Modular
Panels

- Stainless Steel
  Modular Panels
- Glass Modular Panels

Stainless Steel Modular Panels

- Superior strength for the heavy weights and high-pressure bearings using the structure of galvanized profile of 2mm material
- Installation using inter-panel stainless steel screws
- Future service comfort with antibacterial silicone seal coverage with the highest precision
- Walls construction in the corners by bending the steel sheets and adding corner panels, the cross-section angle at all angles of more than 90 degrees (between 100 to 120 degrees depending on the room dimensions)
- Running interior panels' cuts to ft all kinds of outputs, outlets, displayers, and other in-built and flash devices

Paint
Anti-Bacterial Full color print
Desired images

Material
Stainless steel 316 ,304
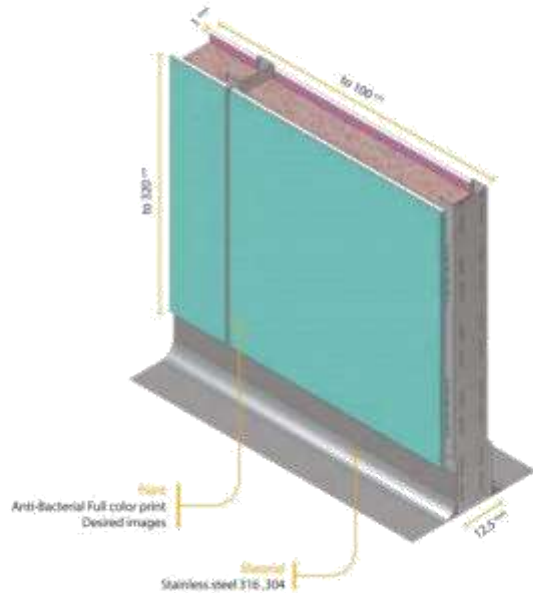
Glass Modular Panels

- No erosion
- Ease of cleaning with a very smooth surface of this material which is very clean and resistant to the standard disinfectants
- Eco-friendly; %100 recyclable
- Ant-scratch and ant-shock
- Layout print on the interlayer
- The use of tempered glass for the high resistance to strike
- The use of two layers of laminated glass in order to avoid glass collapse in case of breaking
- Variation in the layout and color required in the ICU, CCU, pediatric wards etc…
- Resistance to the earthquake up to 9.1 Richter
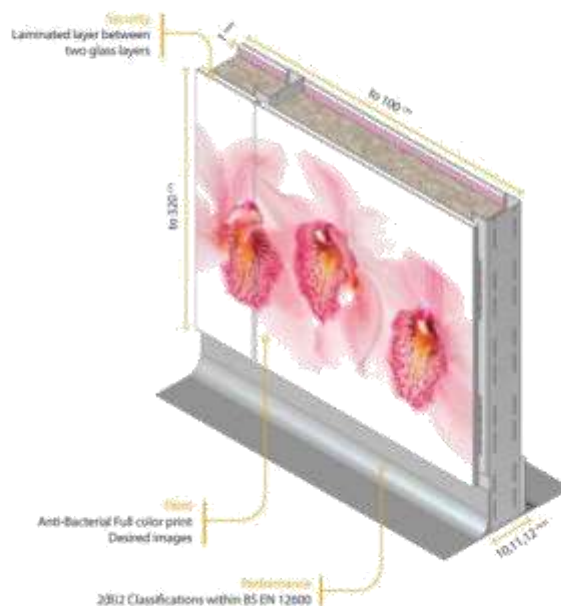
Operating Room Door

Operating Room Door

- Automatic sliding door
- Telescopic door (Sliding)
- Swing automatic door
- Folding automatic door
- Aluminum Frame with Stainless Steel Cover
- Glass Panels

Each of the above doors can be provided as lead-covered and hermetic

Operating
Room Ceiling

Operating Room Ceiling

- Performance against fire
- Non-combustible and fumy due to the tiles
  formation of mineral materials
- Acoustic capability
- Lightweight
- Thermal insulation
- Sound insulation

Operating
Room Flooring

Operating Room Flooring

- Infection control property in accordance with ISO standards 8690
- Non-absorbable, impervious and without holes
- The ability to be installed with hot welding and the use of an integrated seamless tool for easy cleaning
- Dissipative conductive flooring with an Evercare coating with no need to wax and resistant to spots and chemicals
- High-tech, suitable for the areas with low electrical current
- The ability to be installed on concrete, ceramics, epoxy and PVC surfaces and (or) special surfaces (fireproof floors, moisture floors, etc.)
- Capable of installing 20 square meters per hour
- Saving time and cost over the life of the flooring
- Does not crack - Does not swell - Does not break
- With seamless welding capability, prevents water penetration
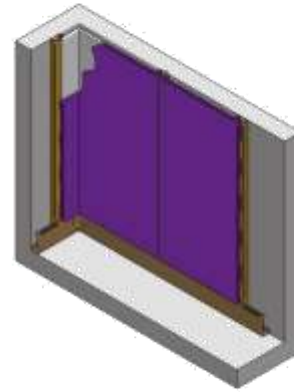
Integration
Parts

- Seal
- Ceiling & Floor
  Integration Parts

Seal

- Antibacterial silicone profile with German material
- Design, production and injection inside the SAIRAN factory

Ceiling & Floor Integration Parts

- The use of integrated coating in the walls due to the high sensitivity and importance of infecton control
- Avoiding any bulge and notch and decorations that create horizontal surfaces in the walls and cause accumulation of contamination
- Design of all horizontal and vertical intersections curved with a radius of at least 2 cm is in the first priority or using open angles at the corners
- Fitting of a specific muscle between the floor and the wall in the use of plastic and rubber flooring to prevent the formation of vertical corners at the intersection of the floor and the wall
- Use of special techniques and tools for other thinning materials to create curved corners

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LAF

Laminar
Air
Flow

Laminar Air Flow (LAF)

- The pressure chamber made of steel with a 1mm diameter in the body and the upper plate
- The body material can be fitted with stainless steel AISI 304 or polished steel RAL 9010
- The joints are rivet and insulated with silicon
- Steel is made up of U-shaped and Z-shaped profiles
- It is resistant to contaminaton and strike and is easily cleaned
- Central space of 60 by 60 cm for the passage of operating room equipment and light. Central space is insulated with plastic strip
- The body height is 450 mm
- Two HEPA Filters

Title	Explantion
Airflow Speed	0.18-0.38 m/s
Dimensions	1.83 m×1.23m(min)3.20m(max)
Number of producible models	8
Central cavity	Is available for the ceiling pillar lighting
Air source	Connection to the central air-conditioning machine
Body material	Stainless steel AISI 304
How to seal the outputs	Composition with laminizer layer and polyester fabric with aluminum frame

Surgical
light
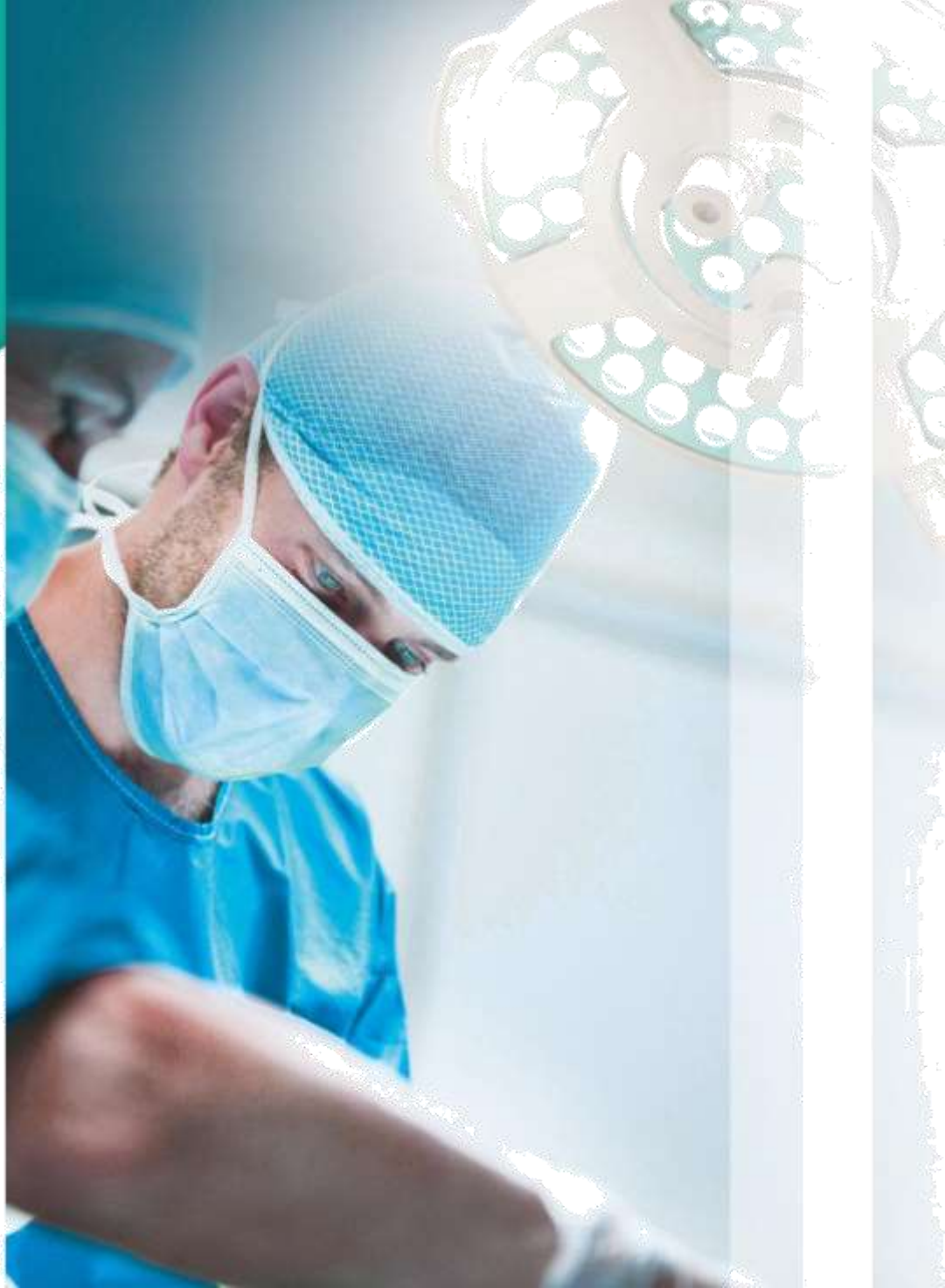
Surgical light

- Multicolor Medical LEDs
- Capability of Imaging Surgery Area Using Full HD Camera (Optional)
- Light Focus Adjustment
- Controllability Using Smart Hospital System
- Color Temperature Adjustment
- Integrated Laser Pointer

- Emergency Battery Backup (Optional)
- Monitor Display for Showing Surgery Required Images
- Video Conferencing
- Controllability Using Mobile, Tablet and Remote Control

ORMS

Operating
Room
Management
Systems

Operating Room Management Systems (ORMS)

- Controlling the surgical bed
- Controlling the operating room audio system
- Output stream under network
- Capture video images of medical equipment and patient informaton
- Connecting to a Barcode Reader or RFID Reader
- Can be Connected to BMS System
- Video conferencing for telemedicine

- In order to receive various video signals from HDMI (8 numbers of medical equipment inputs)
- Convertible to other inputs such as DVI, VGA, ...
- Two camcorder image inputs or network video conferencing
- Connecting to HIS
- Connecting to PACS
- Controlling the operating room lighting
- Controlling surgical moving light heads

Intercom

- Protecting from unauthorized access
- TCP / IP Protecting with standard network wiring
- Support IoT standards
- Cost-effective installation by network connectivity sharing
- Maximizing the availability of the system, the station is equipped with advanced management capabilities to detect any error in the network or electronic components

HMI

Human
Machine
Interface

Human Machine Interface (HMI)

- Touch panels
- Proper built-in design for infection control
- Having a USB port for sending and receiving applications
- Data storage
- Can be connected to a variety of PLCs
- Can be connected to inverters, serial ports, any device with -485RS port
- Controlling the operating room lighting
- Controlling surgical moving light heads
- Controlling the surgical bed
- Controlling the operating room audio system
- Connecting to a Barcode Reader or RFID Reader
- Connecting to BMS system

Smart Hospital Solutions

Infotainment & IPTV
- Infotainment Terminal
- IPTV
- EMR medical tablet

Infrastructure
- Passive and active network LAN/ WAN/ WLAN/ FTTX
- Server room
- Storage

Communication
- Smart nurse call system
- Smart Paging System
- Voice Over Ip(VoiP)

Safety & Security
- IP Camera
- Access Control
- Smart parking System
- Real Time Location System (RTLS)

Automation
- Digital signage
- Intelligent code announcement system
- Building Management Systems (BMS)

COMMUNICATION

Communication

- Smart nurse call System
- Smart Paging System
- Voip
  Voice
  Over
  Ip

Smart nurse call system

- Ability to integrate into handheld devices like mobile phones
- Ability to measure nurses activities and bonus allocation
- Responding for the needs of every type of Hospital
- Increasing patient's satisfaction
- Ability to record and follow-up conversation
- Increasing patient's satisfaction by providing a clear online service
- Ability to follow-up and citation by recording and logging all conversations
- Create a competitive atmosphere between nurses with the bonus system according to patient satisfaction factor
- Cost effective and tailored to meets every needs from a small clinic to modern hospital franchises
- Online nursing system, by connecting nurse's, supervisor's and manager's mobile phones to the nurse calling panels.

Types of Smart Nurse Calling Systems
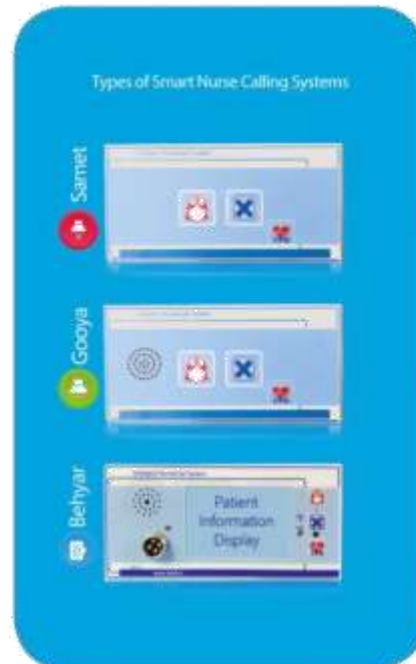
Feature	Behyar	Gooya	Samet
Wired or Wireless installation	●	●	●
Anti-bacterial covering with the ability to wash and sterilize	●	●	●
Installation on medical console unit; separate call and cancel button for each bed	●	●	●
Call button with spring cable, metal socket and washable	●	●	●
Nursing station central device with 7 inch graphical display	●	●	●
The answer key individually for each bed	●	●	✕
HD quality voice	●	●	✕
CPR button for calling emergency team or directly call their phone	●	●	✕
Ability to connect to existing sensors like smoke, motion and...	●	●	✕

Patient Information Display

	Behyar	Gooya	Samet
Web based management software for generating different reports	●	●	✕
VoIP desktop intercom system	●	●	✕
Ability to prioritize each bed, Internal paging system	●	●	✕
Recording and logging all the events	●	●	✕
Separate 5 inch LCD display for each bed	●	✕	✕
Displaying alerts like "Normal", "Emergency" and ... on patient's information display	●	✕	✕
Turns red in case of "Emergency" alert	●	✕	✕
Turns yellow in case of "Emergency in washroom" alert	●	✕	✕
Ability to show videos or slideshows (Educational or occasional videos)	●	✕	✕
Ability to two-way talk to specific patient directly	●	●	✕
Ability to two-way talk to other nursing stations	●	●	✕
Can attach headphones or hands-free devices or add wireless phone	●	●	✕
Ability to forward all requests to a specific nursing station	●	●	✕
Displays all current calls in nursing station	●	●	✕

Smart Paging System

to manager

> Ability to allocate predefined codes for each department or ward
> Ability to integrate into HIS, IVR, CRM software for automatic announcement of special messages.
> Automatic announcement of predefined emergency or special alerts
> Online high quality playing of radio stations
> Less implementation cost comparing to traditional systems

Online local network or internet music panel with the ability to add music, allocate music groups and choose music.

Implementation using existing network infrastructure which means no separate or additional wiring needed.

Ability to connect to traditional analog speakers without separate or additional wiring.

Ability to zoning paging area according to the needs and ability to page each zone separately or together with some or all zones.

Ability to define and authorize infinite pagers according to the needs.

Voice Over Ip (Voip)

- Using existing ethernet wiring
- HD Voice quality, record conversations and online monitoring
- Ability to move extensions easily
- Central phone book, showing the name and profile of each extension when calling
- Possibility to connect two or more buildings covered by a single telephone network
- Possibility to connect to the internal telephone network via the internet

- Possibility to use the mobile app as an internal phone
- Connecting to the HIS, CRM and ...automaton software to provide phone information
- Sending SMS to the client or patient
- Possibility of internal or external video communication
- Online polling
- Automated lab result notification

Voicemail to Text/Email
The Cytracom PBX can send a brief text message and deliver the voicemail as an email attachment.

Personal Assistant
Advanced find me/follow me feature will locate you at up to 5 programmed locations.

Hunt Groups
Rings multiple extensions when a call comes in. Ideal for sales and support teams.

Company Directory
A virtual receptionist provides customized messages connecting callers to pre-configured destinations.

Custom On-Hold Music
Upload custom files to play music or deliver company messaging.

Time-of-Day Routes
Routes calls based on schedules; configure for multiple groups.

Do Not Disturb (DND)
Sends calls directly to voicemail. Other routing options also available.

Custom Caller ID
Override the default network Caller ID with a custom description.

- IP Camera
- Access Control
- Smart Parking
  System
- RTLS
  Real
  Time
  Location
  System

+HOSPITAL

+HOSPITAL

IP Camera

- Two-way audio via a single network cable
- Use of a Wi-Fi or wireless network
- Distributed artificial intelligence (DAI)
- Remote accessibility
- Power over Ethernet (PoE)

- Better image Resolution
- IP Base
- Video Analytic
- Camera Monitoring
- Secure data transmission through encryption and authentication

Access Control

- Controls one door directly, with unlimited expansion capabilities
- TCP/IP communications (10/100Mbps)
- Password protected built-in web
- Live transaction monitoring
- Entry & exit reader capability
- RFID & NFC reader

- 250 Time Zones and 1,000 User/Door Groups
- Holiday support
- Scheduled Events
- Temporary Users
- Status LED's – Power, Communications, & Fault on-board
- web based control
- Door Status Monitoring Input

Smart Parking system

- Providing services related to the plate registration and plate reading
- Providing services for counting cars and people in installed cameras
- Determining the most top-rated points compared to the other points in the environment
- Specifying and report of the left objects in points

- Creating virtual fence and capture images while passing by
- Providing services for face detection
- Providing services for tracking suspicious persons
- Providing and installing thermal cameras and displaying the image temperature

LED Light   Ultrasonic Sensor   Ethernet   USB

EPC-B2203

Coin Collector   Card Reader   Printer   Bill acceptor

COM Port

KB-268 Camera   Directional Board   Directional Display

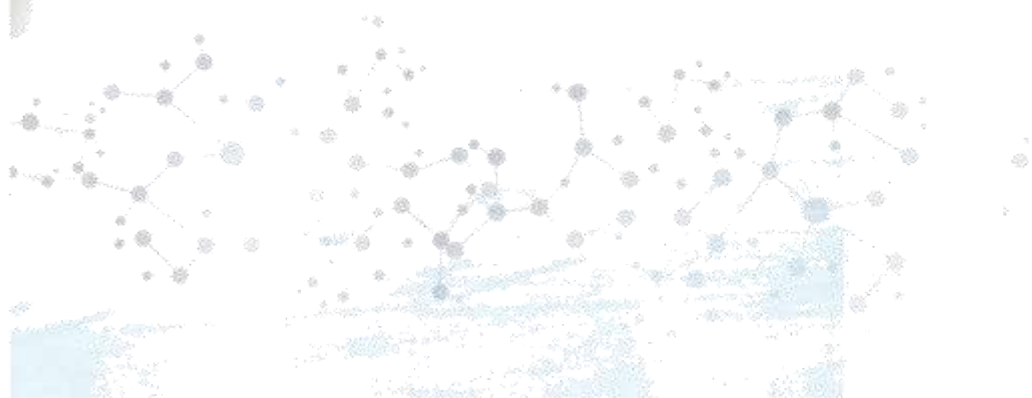## *Real Time Location System (RTLS)*

- Different Readers Antennas and Tags
- Medical Equipment Tracking
- Surgical Instruments or Drugs Tracking
- Patient Tracking
- Real-time Location System via WLAN Network for
- Doctors, Nurses , Patients and Equipment
- Warehouse Management
- Easily Integrated with All ERP or HIS, Software
- Easily ORMS Integration
- UWB & IPS Technology

Infotainment & IPTV

- Infotainment Terminal
- IPTV
- EMR Medical Tablet

Infotainment Terminal

Establish telephone calls

Connection to HIS
(Healthcare Information System)

Watching movies
and videos

Calling nurse

Game and entertainment
for patients

Seamless patient
Information-Entertainment
System

Access to results of
examinations

Access to patient records and records

IPTV

- Live TV & Radio with time shift
- Video and music on Demand Service
- HIS, PACS & BMS Integration
- VAS services: Game, Whether, Polling, etc.
- Installing on Bedside patient Console or Smart Displays
- Internet on TV

EMR Medical Tablet

- Removing all the costly printing of the patient file letter-head
- Removing all user errors in entering information in the patient file
- Impossible missing a sheet of patient records
- Reducing staffing costs for the secretaries and medical records
- Ability to track all records in the file by date, time and user
- Compliance with all standards of the Ministry of Health, forensic medicine and medical insurance
- Ability to view the tests results online and electronically in the patient's cartable

- No need for an additional metal cartable in the departments and medical records
- Available in MRI environments, operating rooms, labs, cleanrooms etc
- Ability to identify the user through finger reader
- Ability to record information through the patient's handcuff barcode or medication
- Possibility to take photos in the form of auto focus and high resolution of patient's conditions
- Paper documents and attach instantly to the patient's case

Infrastructure

- Passive And Active Network LAN/ WAN/ WLAN/ FTTX
- Server Room
- Storage

Passive And Active Network LAN/ WAN/WLAN/ FTTX

- 10Gb/s Back Bone Network Speed
- Wireless 802.11ac Support
- Structured Copper and Fiber Cabling
- Fiber Optic Networks (FTTH/FTTX)
- FFTH for Hospital Data Infrastructure

Server Room

Storage

Automation

- Digital Signage
- Intelligent Code Announcement System
- Building Management Systems (BMS)

Digital Signage

- Doctors Information
- Hospital Services
- Medical Services Advertising
- Remote Content Management
- Various Templates
- Various Schedules
- Optimized Network Infrastructure Bandwidth
- Installing on Smart Displays

Building Management Systems (BMS)

- Hospital Lighting Control
- Hospital Curtain Control
- Hospital HVAC Control
- Hospital Energy Management
- Hospital Data Center Control
- Access Control Integration
- CCTV Integration
- Remote Monitoring Via LAN or Internet
- 2D or 3D Graphical User Interface
- Various Protocols (TCP/IP, MODBUS, KNX)
- Building Automaton
- Air Quality
- Security
- Fire and Life Safety
- Power Monitoring (EPMS)
- Lighting
- Metering
- Mass Notification
- IT Infrastructure-Connectivity to all Systems
- Open Protocols/BACnet, etc

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Operating Room Equipment Catalogue

Operating Room Equipment

Medical Suction
- C55F
- C25
- MC10
- Suction Accessories

Surgical light
- Luminous LED5
- Luminous LED3

Smart OR
- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

Smart OR

- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

Modular Operating Room Walls

NEW PRODUCT

- Laminated Glass Panels
- Stainless Steel Panels
- Galvanized Panels
- Laminar Airflow
- Stainless Steel Door
- Operating Room Lighting
- Connecting to ORMS Via BMS Panel
- Various Anti-Bacterial Colors and Motifs
- Available for Operating Rooms, ICU, CCU, CSR and …
- Fast Installation

- *Ultimate Elegance and Sterilized Implementation*

Operating Room Management Systems (ORMS)

- Operating Room Video Source Integration
  (HDMI, SDI, VGA, DVI, TCP/IP, PACS)
- Video Routing
- Video Streaming
- Video Recording (USB, NAS, SAN)
- Surgical Light Control
- Video Conferencing
- BMS Control Panel
- Music Control Panel
- HIS & PACS Control Panel
- RFID Reader

NEW PRODUCT

- *Now the Operating Room is Under Your Control*

ISO KIA

Surgical light

- Luminous LED5
- Luminous LED3

Luminous LED 5

Technical Highlights

- Multicolor Medical LEDs
- Capability of Imaging Surgery Area Using Full HD Camera (Optional)
- Light Focus Adjustment
- Controllability Using Smart Hospital System
- Color Temperature Adjustment
- Integrated Laser Pointer
- Emergency Battery Backup (Optional)
- Monitor Display for Showing Surgery Required Images
- Video Conferencing
- Controllability Using Mobile, Tablet and Remote Control

- *Perfect Shadowless Partner of Surgeon*

Luminous LED 3

Technical Highlights

- Multicolor Medical LEDs
- Light Focus Adjustment
- Controllability Using Smart Hospital System
- Color Temperature Adjustment

- Integrated Laser Pointer
- Emergency Battery Backup (Optional)
- Monitor Display for Showing Surgery Required Images
- Controllability Using Mobile, Tablet and Remote Control

- *Perfect Shadowless Partner of Surgeon*

NEW PRODUCT

Technical Data of ISOKIA LED5 and LED3 Surgical Light

Parameter　　　　　Model	LED5	LED3
Illuminance (kLUX)	160	130
Color Temperature (Kelvin)	3500, 3750, 4000, 4250 4500, 4750	3500, 3750, 4000, 4250 4500, 4750
Focusable Light Field Size(mm)	180-300	170 - 270
Color Rendering Index (Ra)	92	92
Working Distance (cm)	70 - 140	70 - 140
Number of LEDs	45	30
Life Time of LEDs	Up to 50000	Up to 50000
Mount	Ceiling	Ceiling
Power Consumption (W)	180	160
Operating Voltage AC (V)	220	220

Camera with Interface Board for LED5(Optional)	
Objective system	10-Fold Optical Zoom 12-Fold Digital Zoom F=3.8 mm (wide) to 38 mm (telephoto) F 1.8 to F 3.4
Video Signal	1080 p/50
Video Output	HDMI
Focusing System	Automatic & Manual
Minimum Object Distance	10 mm (wide) to 800 mm (telephoto)
Resolution (Megapixel)	2.38
Power Consumption (W)	6
Dimension (mm)	45.6 *48.8 *78
Weight (g)	260

Medical Suction

- C55F
- C25
- MC10
- Suction Accessories

MEDICA C55F

Technical Highlights

- High Vacuum: - 90 kPa, 675 mmHg
- High Flow: 50 L/min
- Dimensions: 965x510x480 mm
- Weight: 17kg
- Safety Classification: IPX1
- In Accordance with
  EN1079 -1, EN 60601-1, EN 60601-2 Standards
- Fast Vacuum Build Up
- Quiet in Operation
- Hygienic and Easy to Use

Application

- Plastic Surgery
- General Surgery
- Neurosurgery
- Outpatient Surgery Centers
- Emergency Units

- *Extreme Vacuum Is Now Available*

MEDICA C25

Technical Highlights

- High Vacuum: - 80 kPa, 600 mmHg
- High Flow: 20 L/min
- Dimensions: 300x180x350 mm
- Weight: 6 kg
- Safety Classification: IPX1
- In Accordance with
  EN1079-1, EN60601-1, EN60601-2 Standards
- Small, Lightweight and Portable Design
- Various Vacuum Levels
- Quiet in Operation
- Easy to Use Operating Elements

- *Best Choice for an Ambulance*

MEDICA MC10

Technical Highlights

- High Vacuum: - 40 kPa , 300 mmHg
- High Flow: 16 L/min
- Dimensions: 350x180x300 mm
- Weight: 6 kg
- Safety Classification: IPX1
- Small, Lightweight and Portable
- Various Vacuum Levels
- Quiet in Operation
- Easy to Use Operating Elements

- *When Children Need Their Own Suction Unit*

Suction Accessories

- Jar 1 ,2 ,3 Liter
- Lid 1 ,2 ,3 Liter
- Over Fill Protection
- Suction Bag & Canister
- Patient Tube
- Jar Holder
- Bacterial Filter
- Pedal Switch

Suction Trolley

- Extremely Impact Resistant
- Antistatic Wheels

Certificates

CONTENT

Section 4

Spinal Implants

Section 5

Smart Hospital Solutions

Section 6

Services

Section 7

History

Section 8

Certificates & Awards

Section 1
Cardiovascular

OEM Modules
OEM Modules

Patient Monitor
ARAD P10+
SmartView
ARAD P10

FX7
LX110
Sina 5

1.6 **1.1**

1.5

1.2

1.4 **1.3**

Defibrillator/Monitor
RELIVE DM5

Patient Monitor Accessories
- IOA Vision
- Mi-Cap C1
- Capnography & Multigas
  Accessories

Telemedicine Solutions
- Health Care SADRA A15
- SAMA
- Web Based
- T220
- T110

Central Station
- Live W110

- Monitor Accessories
- Trolly & Stand

1.1 Section 1

Cardiovascular

Patient Monitor

- ARAD P10+
- SmartView
- ARAD P10
- FX7
- LX110
- Sina 5

Cardioset ARAD P10+

Parameters
- Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
- Numeric Parameters: HR, RR, SpO$_2$%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- EMG & BIS
- CO$_2$ (SideStream)
- Multigas Analyzer (N$_2$O, O$_2$, AA1, AA2)
- ECG Out
- 2.0" Thermal Recorder
- Remote Patient Monitoring

Key Features
- Intuitive 19" Wide Multi Touch Display
- Wi-Fi / Bluetooth Communication Support
- New Graphical User Interface
- Full HD External Display Support
- Full Customizable Screen Views
- Dynamic Auto Size Waves
- Dual Bed Monitoring

NEW
PRODUCT

- *Reliable PACS & HIS Support*

SmartView Vital Signs Monitors

Parameters

- Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options

- Arrhythmia Analyzer
- ST Segment Detection
- EMG & BIS
- Impedance Cardiography (ICG)
- CO_2 (SideStream)
- Multigas Analyzer (N_2O, O_2, AA1, AA2)
- ECG Out
- 2.0" Thermal Recorder
- Remote Patient Monitoring
- Two Additional IBP Channel

■ SmartView MP22

■ Smartview MP19

NEW
PRODUCT

Key Features

- Equipment Class: Class I, Internally Powered, IPX1, Continuous Operation
- PACS & HIS Support
- Wi-Fi / Bluetooth Communication Support
- Intelligent Integrated Software with Comprehensive Vital Signs Monitoring
- Humanized Operation Interface
- High Resolution Display Option Improves Viewing
- Replaceable Wide Displays (12, 15 ,19, 22 Inch)
- Capability of Using Both Multi-Touch Screen Display & Keypad
- Fully Customizable Modules
- Dynamic Auto Size Waves
- Mother & Baby Patient Monitor
- Comprehensive Care with Vitals and Viewing
- Dual Bed Monitoring
- Wired and Wireless Networking with Continues Data
Transfer • External USB/Wi-Fi Printer Support

■ SmartView MP15

NEW
PRODUCT

● *Multi-touch Screen, Stylish New Design*

■ SmartView MP12

ISO KIA

Cardioset ARAD P10

Parameters
Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
Arrhythmia Analyzer

ST Segment Detection
EMG & BIS
CO_2 (SideStream)
Multigas Analyzer (N_2O, O_2, AA1, AA2)
ECG Out
2.0" Thermal Recorder
Remote Patient Monitoring

Key Features
19" Wide Screen Display
User Friendly Software
Convenient Rotary Knob & Shortcut Keys

ECG Recording, NIBP Report and Trend for All Parameters
Printable Disclosure

Cardioset FX7

Parameters
- Waveforms: ECG (3 ,7 leads), RESP, Pleth, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- 2.0" Thermal Recorder

Key Features
- 15" color TFT Display
- Simple and User Friendly Operation
- ECG Recording, NIBP Report and Trend for All Parameters
- Lightweight (< 5 Kg Including Battery)

Fast boot less than 5 seconds

Cardioset LX110

Parameters
- Waveforms: ECG (3 ,7 leads), RESP, Pleth, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- 2.0" Thermal Recorder

Key Features
- 12.1" color TFT Display
- ECG Recording, NIBP Report and Trend for All Parameters
- Lightweight (< 5 Kg Including Battery)

- *Compact & Impressive Design*

Cardioset Sina 5

Parameters
- Waveforms: ECG (3 ,7 leads), Pleth, RESP, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- GPS / GPRS
- 2.0" Thermal Recorder

Key Features
- 5" color TFT Display
- ECG Recording, NIBP Report and Trend for All Parameters
- Extra Lightweight (< 2 Kg Including Battery)

Minimum Size, Maximum Portability

1.2 Section 1

Cardiovascular

Patient Monitor Accessories

- IOA Vision
- Mi- Cap C1
- Capnography & Multigas Accessories
- Monitor Accessories
- Trolly & Stand

ISO KIA

BIS Monitoring IOA Vision

Measurement
- Index of Consciousness
- SQI, ESR, EMG and BIS Measurement

Technical Highlights
- Compliance with Europe Standards
- Offered Accessories and Peripherals by SAIRAN Medical Equipment Industries
- Easy Installation and Utilization
- Bluetooth Interaction with SAIRAN Patient Monitors
- Waveform Display on Patient Monitor and Saving as Trend
- Graphical Low Consumption LCD
- Minimum 6 Hours Operation Time Using External Rechargeable Battery

NEW
PRODUCT

- *What Does Complete the Operating Room ?*

Capnograph Mi-Cap C1

Measurement
- Mainstream Sensor Type
- Non-Dispersive Infrared Gas Analysis Technique
- Compact Multi-Channel Infrared Detector

Technical Highlights
- CO_2 Measurement Range: 0 -19.7% , 0 -150 mmHg, 0 - 20 kPa
- CO_2 Resolution: 0.1 mmHg
- CO_2 Measurement Accuracy:
  0 - 40 mmHg: ± 2 mmHg
  41 - 70 mmHg: ± 5% of Reading
  71 - 100 mmHg: ± 8% of Reading
  101 - 150 mmHg: ± 10% of Reading
- Respiration Rate: 3 -150 Brpm
- Respiration Rate Accuracy: 1% ±1Brpm
- Circumstance Pressure: 86 to 106 kPa
- Power Demand: 5 V ± %5 (max ripple 200 mVp-p)
- Power Consumption: <150 mA
- Storage Condition: 40°C to 70°C , < 90 % RH, Non-Condensing
- Operating Condition: 5°C to 50°C , < 10 to 90 % RH, Non-Condensing

- *Analyze Each Cycle of Respiration System*

Capnography & Multigas Analyzer Accessories

- Respironics CO_2 Probe
- Extension Cable
- Adapter & Nomoline

- IRMA CO_2 Probe
- Extension Cable
- Adapter & Nomoline

- ISA CO_2 Probe
- Extension Cable
- Adapter & Nomoline

Monitor Accessories

Nellcor / Nonin SpO$_2$
- Adult, Pediatric and Neonate
- Adhesive, Reusable and Multisite Sensors

NIBP CUFFs
- Cuff for Adult, Pediatric and Neonate
- Single Use Cuffs

IBP
- Periodical Reusable Transducers
- Dome, Clamp and Brocket
- Extension Cable

Temp
- Temperature Probe-Skin (Adult, Pediatric and Neonate), YSI Compatible
- Temperature Probe-Rectal (Pediatric), YSI Compatible

ECG
- ECG Patient Cable 3,5,10 Wires
- Extension Cable (3m, 5m)

Battery
- Li-ion 12 v / 2.3 Ah
- Sealed Acid 12 v / 2.3 Ah

Trolly & Stand

Monitor Trolly
- Left and Right Rotation
- Bracket Horizontal/Vertical

Monitor Stand
- Easy to Use
- Excellent Quality Material & Design

**High Tech corporation
smart nexus**

1.3 Section 1

Cardiovascular

Central Station

- Live W110 Wide Screen Central Station

ISO KIA

Live W110

Parameters

- Vital Signs of 16 Telemetry Systems or Bedside Patient Monitors through Wireless Network/LAN
- Up to 5 Graphs Simultaneously for Each Patient Including ECG (I, II, III, aVL, aVR, aVF, V), $SpO_2\%$, Pleth, RESP, IBP1 and IBP2
- Patient Information, Continuous Records History and Nurse Calls

Key Features

- Wide 20" Touch Screen Display
- Two-Way Communication with Patient Monitors
- Arrhythmia Analyzer
- Portable Thermal Recorder & LaserJet Printer Support
- User Friendly & Elegant Interface

- *Intensive Care of All Patients Simultaneously*

1.4 Section 1

Cardiovascular

Telemedicine Solutions

- SADRA A15
- SAMA
- Web Based
- T220
- T110

ISO KIA

HealthCare SADRA A15

NEW
PRODUCT

Parameters

- ECG (3 ,7 ,12 leads), RESP, Pelth, IBP, SpO_2%, NIBP,
- Temp, CO_2 Glucose, Lipid and PCG Measurement

Key Features

- Touch Screen 10.1" Color TFT Display
- Real Time Patient Monitoring
- GSM (2G, 3G, 4G), LAN and Wi-Fi Data
- Interface Support all UVC Standard Otoscopes
- One Channel Audio-In for Connecting
- Stethoscope Video Telephony and Consultation
- Real-Time Transmit Information to Central Viewer Station

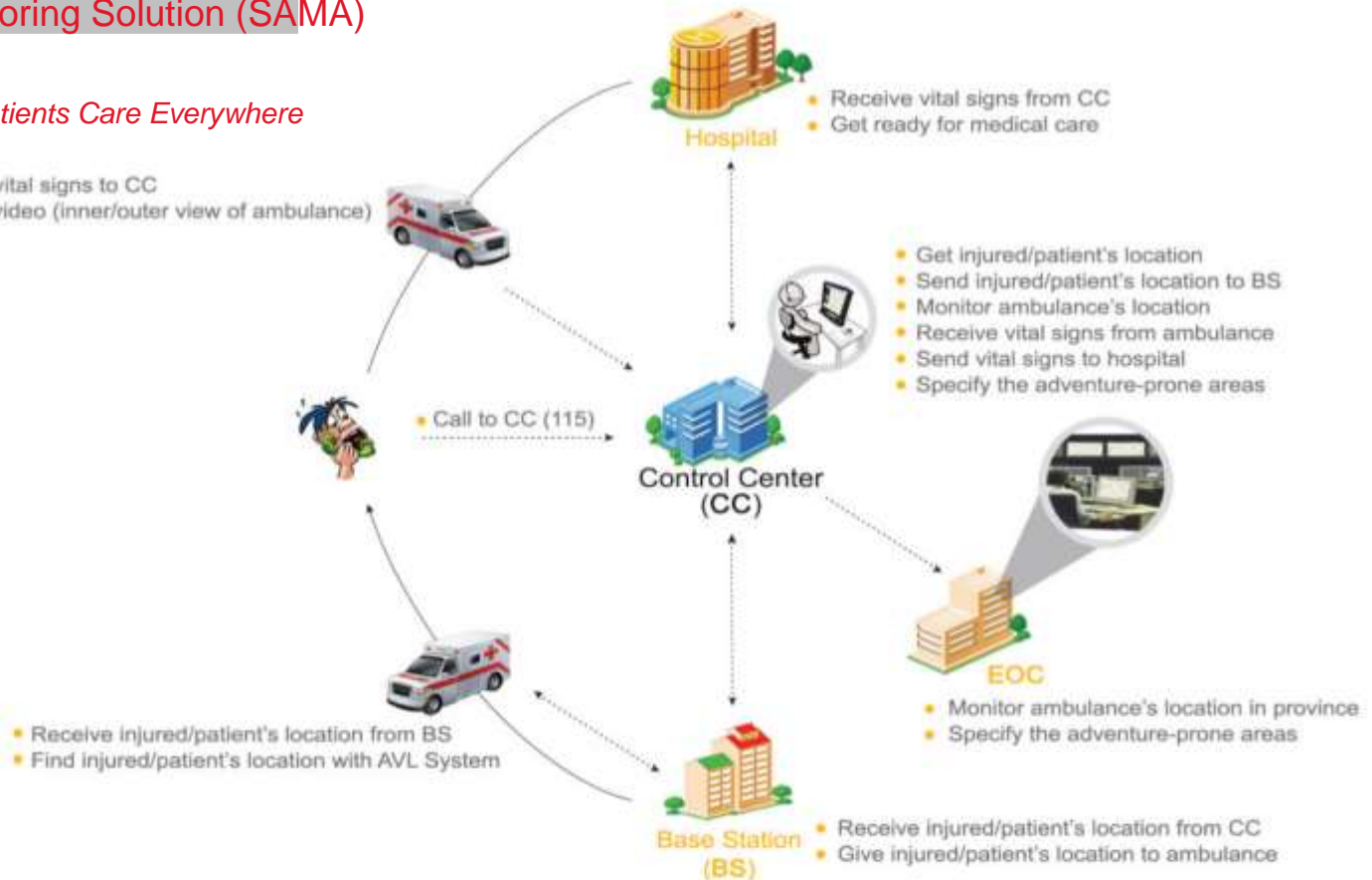- *Transfer Information Instead of Moving Patient*

TeleMonitoring Solution (SAMA)

● *Extend Patients Care Everywhere*

- Send vital signs to CC
- Save video (inner/outer view of ambulance)

Hospital
- Receive vital signs from CC
- Get ready for medical care

- Call to CC (115)

Control Center (CC)
- Get injured/patient's location
- Send injured/patient's location to BS
- Monitor ambulance's location
- Receive vital signs from ambulance
- Send vital signs to hospital
- Specify the adventure-prone areas

EOC
- Monitor ambulance's location in province
- Specify the adventure-prone areas

- Receive injured/patient's location from BS
- Find injured/patient's location with AVL System

Base Station (BS)
- Receive injured/patient's location from CC
- Give injured/patient's location to ambulance

Web Based Patient Monitors

Technical Highlights

- Access to Web Monitoring from www.sairanmed.ir Website
- Showing All Vital Signs from SAIRAN Patient Monitors
- Define Permission and Accessibility for the User
- 24 Hours Patient Care

Monitor Patients around the World

Cardiopack T220

Telemetry Monitoring System

- Transmission of ECG Graph (I,II,V)
- Storing Data for 48 Hours on microSD Memory (up to 16 GB)
- 24 hours Operating Time for Transmission ECG Using Only 1*AA Battery
- Provides a Graphical Screen to Display All Monitored
- ECG Leads Nurse Call Button on the Transmitter
- Enhances Patient Comfort with a Compact, Lightweight
- Design Up to 16 Telemetry Transmitters Can Be Used Simultaneously in a Cardiac Care Center
- 8 Channels Receivers with Internal Antenna
- Frequency/Power Settings Can Be Modified in Accordance with the Local Country Regulations
- High Reliability, Narrowband Wireless Transmission and Digital Modulation
- In Accordance with EN60601-2-27, ANSI/AAMI EC13, IEC 60601-1, IEC 60601-2 Standards

- *Don't Confine Patient for Cardiac Care*

Cardiopack T110

Telemetry Monitoring System

Transmission of ECG Graph (I,II ,III), SpO$_2$ %,
Pulse Rate, Plethysmograph
Provides a Graphical Screen to Display All Monitored
ECG Leads Nurse Call Button on the Transmitter
8 Channels Receivers with Internal Antenna
High Reliability, Narrowband Wireless Transmission and
Digital Modulation
Up to 16 Telemetry Transmitters Can Be Used
Simultaneously in a Cardiac Care Center
48 Hours Operating Time for Transmission of Both
ECG and SpO$_2$ % Using Only 2*AA Batteries
In Accordance with EN60601-2-27, ANSI/AAMI
EC13, IEC 60601-1, IEC 60601-2 Standards

More Vital Signs Are Available Now with Cardiopack

ISO KIA

1.5 Section 1

Cardiovascular

Defibrillator/
Monitor

- RELIVE DM5

ISO KIA

RELIVE DM5

NEW
PRODUCT

Defibrillator

- Energy: 1-200 J
- Waveform: Biphasic Truncated Exponential
- Mode: Manual, Cardioversion, AED
- Charging Time: Less than 6 Seconds

Noninvasive Pacing

- Waveform: Rectilinear, Constant Pulse
- Current: 0 - 200 mA
- Rate: 30 - 180 ppm
- Refractory Period: 340 ms (30-80 ppm); 240 ms (90-180 ppm)
- Mode: Demand or Fixed Rate

Numeric Parameters

- Waveforms: ECG, Pleth, IBP (2 channels), CO_2
- Numerical Parameters: HR, PR, SpO_2 %, Temp, IBP (2 channels), NIBP, $EtCO_2$
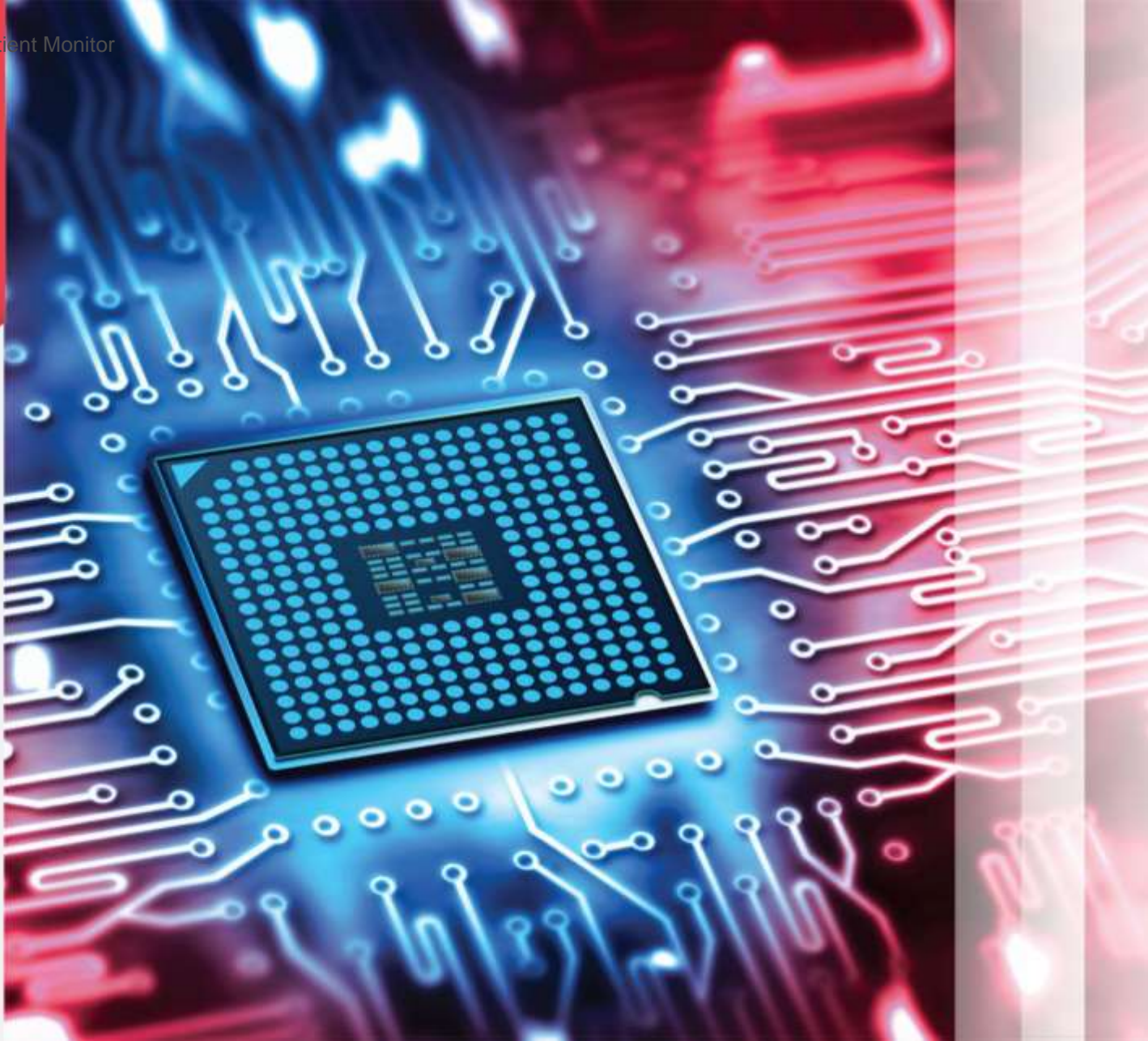
Saving Life is our Pleasure
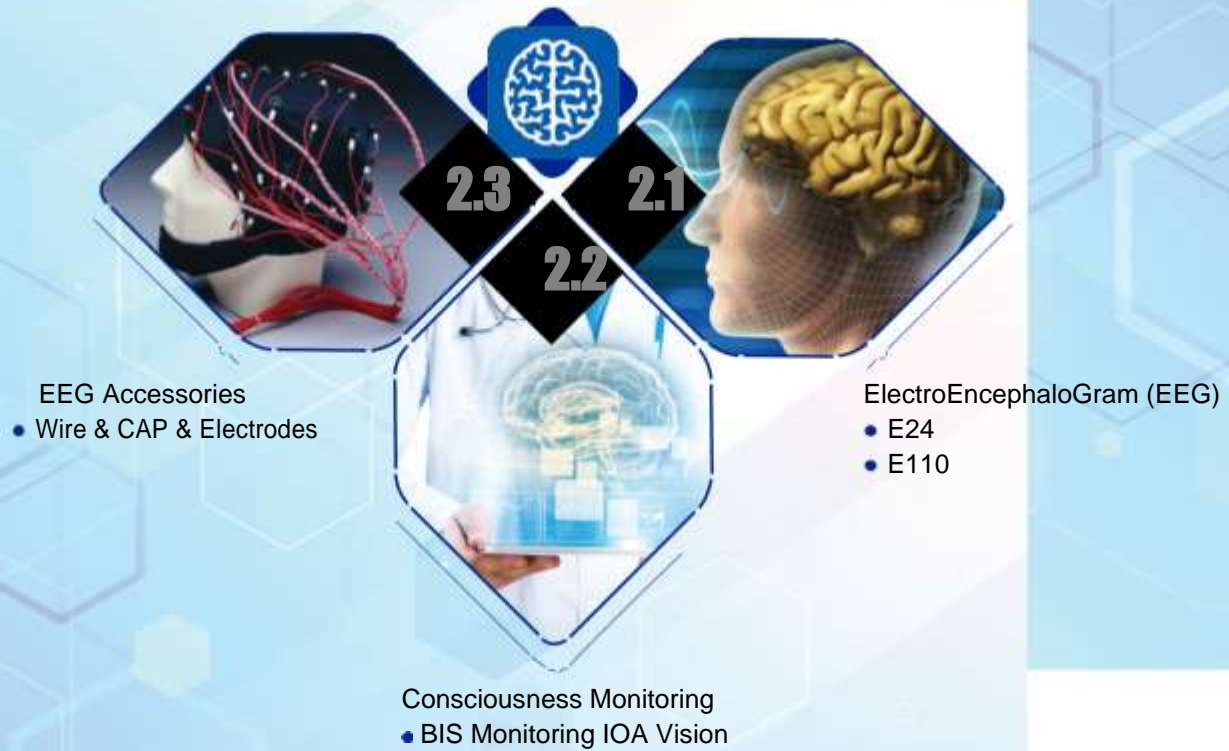
OEM Modules

- Mainboard
- IBP & Temp Module:
  2/4 Channels IBP and 2 Channels
- Temp ECG & Respiration Module:
  3,10 Channels High CMRR ECG Amplifier
  3,7,12 Leads
- Thermal Recorder
- EEG Amplifier Module:
  21 Channels high CMRR Amplifier
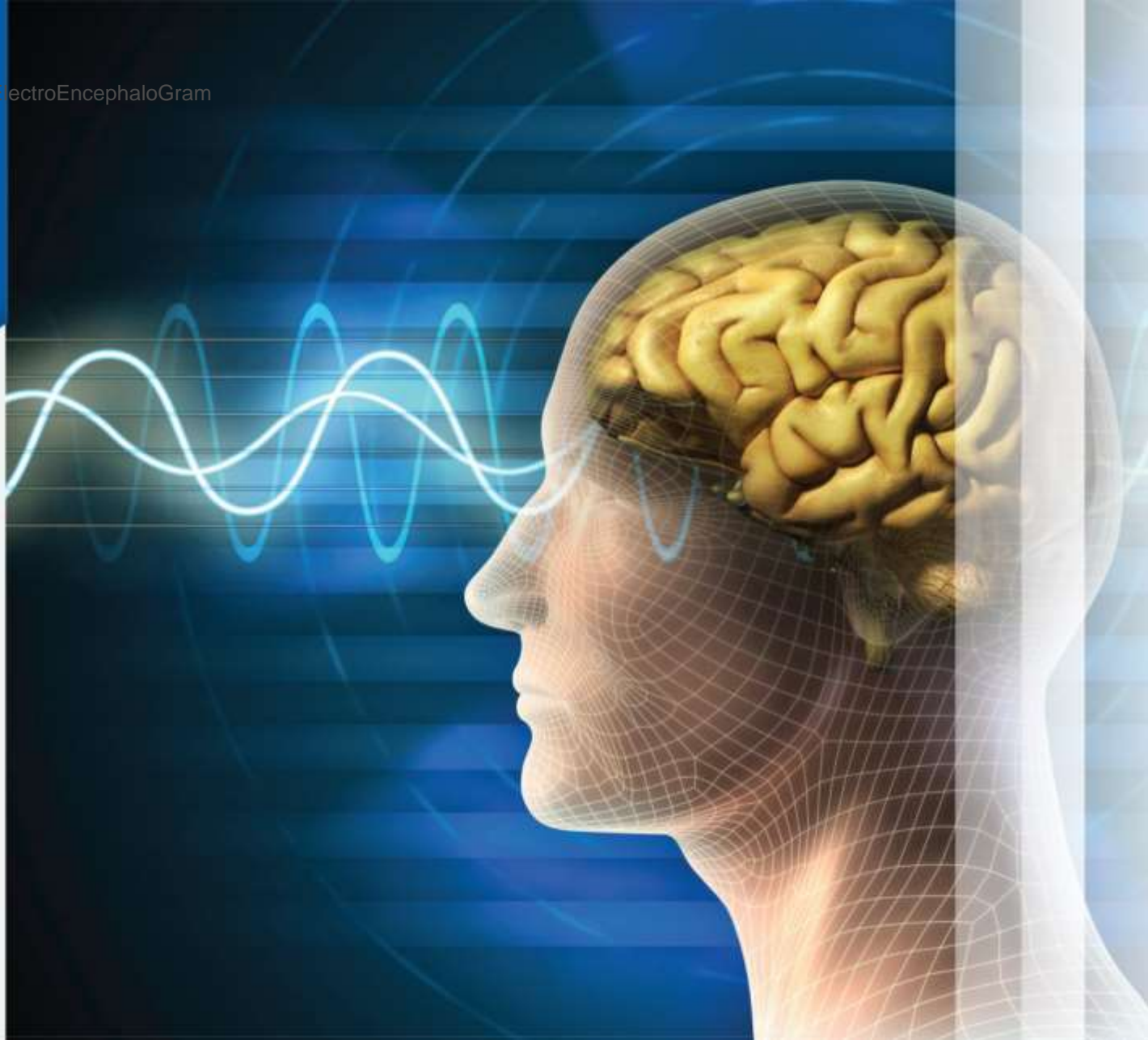
ISO KIA

Section 2

Neurology

2.3

2.1

2.2

EEG Accessories
- Wire & CAP & Electrodes

ElectroEncephaloGram (EEG)
- E24
- E110

Consciousness Monitoring
- BIS Monitoring IOA Vision

ISO KIA

2.1 Section 2
Neurology

Electro-
Encephalo-
Gram
(EEG)

- E24
- E110

ISO KIA

Neuroset E24

Technical Highlights

- Compact & Portable (Laptap System)
- 21 Channels EEG +3 Extra Amplifier Channels
- FFT Analysis
- Programmable Photic Stimulator
- Color Brain Map
- Impedance Check Measurement
- USB and Serial Communication
- Compact and Portable Design
- Multi Languages Support

- *EEG Portability Is Possible Now*

Neuroset E110

Technical Highlights

- 21 Channels EEG + 3 Extra Amplifier
- Channels 15" Monitor (Laptap System)
- Thermal Printing on 216 mm Wide
  Continuous Paper Same as Analog EEGs
- FFT and Brain Mapping Software
- Analysis Remontage and Digital Filtering
- Impedance Check Measurement USB
- and Serial Communication
- Compact and Portable
- Persian and English Languages Support
- Laser Color and Monochrome Printer Support

- *EEG, Opening a Window to Neuroscience*

ISOKIA

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2.2 Section 2
Neurology

Consciousness
Monitoring

- BIS Monitoring
  IOA Vision

ISO KIA

BIS Monitoring IOA Vision

NEW
PRODUCT

Measurement
- Index of Consciousness
- SQI, ESR, EMG and BIS Measurement

Technical Highlights
- Compliance with European Standards
- Offered Accessories And Peripherals by SAIRAN Medical Equipment Industries
- Easy Installation and Utilization
- Bluetooth Interaction with SAIRAN Patient Monitors
- Waveform Display on Patient Monitor and Saving as
- Trend Graphical Low Consumption LCD
- Minimum 6 Hours Operation Time Using External Rechargeable Battery

Complete Your Neurology Department

2.3 Section 2
Neurology

EEG
Accessories

- Wire & CAP &
  Electrodes

ISO KIA

EEG Accessories

- EEG Wire
- EEG Electrodes
  Patient Head cap

Section 3
Operating Room Equipment

3.3

3.2

3.1

Medical Suction
- C55F
- C25
- MC10
- Suction Accessories

Surgical light
- Luminous LED5
- Luminous LED3

Smart OR
- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

ISO KIA

3.1 Section 3

Operating Room
Equipment

Smart OR

- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

ISO KIA

Modular Operating Room Walls

NEW
PRODUCT

- Laminated Glass Panels
- Stainless Steel Panels
- Galvanized Panels
- Laminar Airflow
- Stainless Steel Door
- Operating Room Lighting
- Connecting to ORMS Via BMS Panel
- Various Anti-Bacterial Colors and Motifs
- Available for Operating Rooms, ICU, CCU,
- CSR and … Fast Installation

- *Ultimate Elegance and Sterilized Implementation*

Operating Room Management Systems (ORMS)

NE
PRODUCT

- Operating Room Video Source Integration (HDMI, SDI, VGA, DVI, TCP/IP, PACS)
- Video Routing
- Video Streaming
- Video Recording (USB, NAS, SAN)
- Surgical Light Control
- Video Conferencing
- BMS Control Panel
- Music Control Panel
- HIS & PACS Control Panel
- RFID Reader

- *Now the Operating Room is Under Your Control*

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ISOKIA

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Corporation Smart nexus**

3.2 Section 3

Operating Room
Equipment

Surgical light

- Luminous LED5
- Luminous LED3

ISO KIA

Luminous LED 5

Technical Highlights

- Multicolor Medical LEDs
- Capability of Imaging Surgery Area Using Full HD Camera
- (Optional) Light Focus Adjustment
- Controllability Using Smart Hospital
- System Color Temperature Adjustment
- Integrated Laser Pointer
- Emergency Battery Backup (Optional)
- Monitor Display for Showing Surgery Required
- Images Video Conferencing
- Controllability Using Mobile, Tablet and Remote Control

NEW
PRODUCT

- *Perfect Shadowless Partner of Surgeon*

Luminous LED 3

Technical Highlights

- Multicolor Medical LEDs
- Light Focus Adjustment
- Controllability Using Smart Hospital
- System Color Temperature Adjustment
- Integrated Laser Pointer
- Emergency Battery Backup
- (Optional) Monitor Display for Showing Surgery Required Images
- Controllability Using Mobile, Tablet and Remote Control

NEW *PRODUCT*

- *Perfect Shadowless Partner of Surgeon*

Technical Data of ISOKIA LED5 and LED3 Surgical Light

Illuminance (kLUX)	160	130	
Color Temperature (Kelvin)	3500, 3750, 4000, 4250 4500, 4750	3500, 3750, 4000, 4250 4500, 4750	
Focusable Light Field Size(mm)	180-300	170 - 270	
Color Rendering Index (Ra)	92	92	
Working Distance (cm)	70 - 140	70 - 140	
Number of LEDs	45	30	
Life Time of LEDs	Up to 50000	Up to 50000	
Mount	Ceiling	Ceiling	
Power Consumption (W)	180	160	
Operating Voltage AC (V)	220	220	

Camera with Interface Board for LED5(Optional)

Objective system	10-Fold Optical Zoom 12-Fold Digital Zoom F=3.8 mm (wide) to 38 mm (telephoto) F 1.8 to F 3.4	
Video Signal	1080 p/50	
Video Output	HDMI	
Focusing System	Automatic & Manual	
Minimum Object Distance	10 mm (wide) to 800 mm (telephoto)	
Resolution (Megapixel)	2.38	
Power Consumption (W)	6	
Dimension (mm)	45.6 *48.8 *78	
Weight (g)	260	

3.3 Section 3

Operating Room Equipment

Medical Suction

- C55F
- C25
- MC10
- Suction Accessories

ISO KIA

MEDICA C55F

Technical Highlights

- High Vacuum: -90 kPa, 675 mmHg
- High Flow: 50 L/min
- Dimensions: 965x510x480 mm
- Weight: 17kg
- Safety Classification: IPX1
- In Accordance with
  EN1079-1, EN 60601-1, EN 60601-2 Standards
- Fast Vacuum Build Up
- Quiet in Operation
- Hygienic and Easy to Use

Application

- Plastic Surgery
- General Surgery
- Neurosurgery
- Outpatient Surgery Centers
- Emergency Units

- *Extreme Vacuum Is Now Available*

MEDICA C25

Technical Highlights

- High Vacuum: -80 kPa, 600 mmHg
- High Flow: 20 L/min
- Dimensions: 300x180x350 mm
- Weight: 6 kg
- Safety Classification: IPX1
- In Accordance with
  EN1079-1, EN60601-1, EN60601-2 Standards
- Small, Lightweight and Portable Design
- Various Vacuum Levels
- Quiet in Operation
- Easy to Use Operating Elements

- *Best Choice for an Ambulance*

MEDICA MC10

Technical Highlights

- High Vacuum: -40 kPa , 300 mmHg
- High Flow: 16 L/min
- Dimensions: 350x180x300 mm
- Weight: 6 kg
- Safety Classification: IPX1
- Small, Lightweight and Portable
- Various Vacuum Levels
- Quiet in Operation
- Easy to Use Operating Elements

- *When Children Need Their Own Suction Unit*

Suction Accessories

- Jar 1 ,2 ,3 Liter
- Lid 1 ,2 ,3 Liter
- Over Fill Protection
- Suction Bag & Canister
- Patient Tube
- Jar Holder
- Bacterial Filter
- Pedal Switch

Suction Trolley

- Extremely Impact Resistant
- Antistatic Wheels

ISOKIA
**High Tech
corporation
smart nexus**

Section 4
Spinal Implants
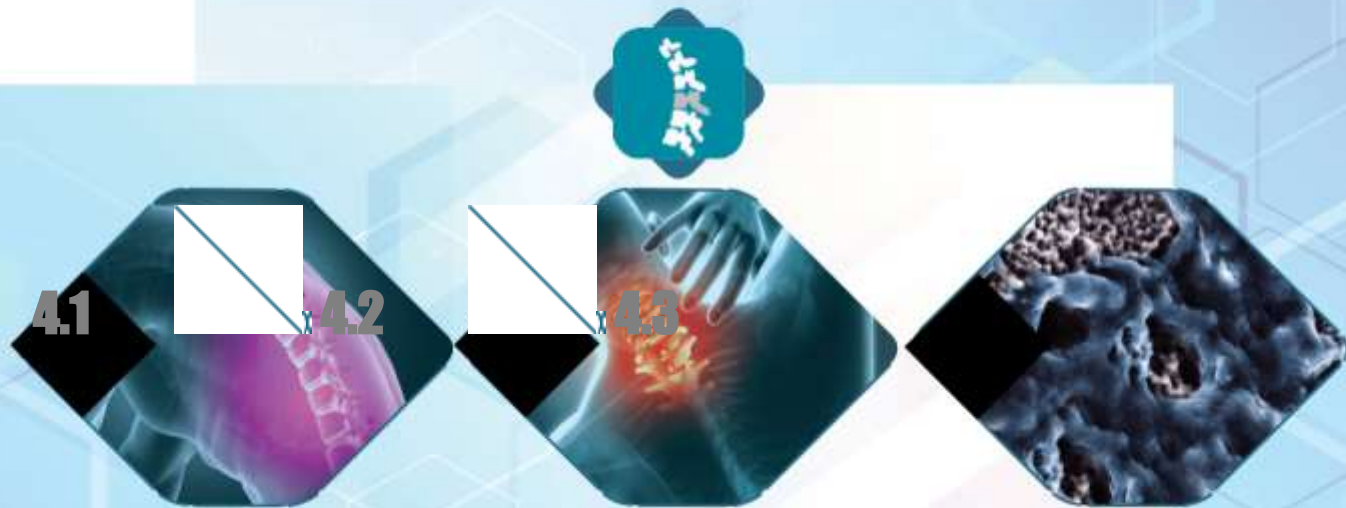
4.1

4.2

4.3

Lumbar Stabilization
- Lumbar Intervertebral Fusion Cages
- Lumbar & Thoracic Stabilization System
- Iliac Screw
- Dynamic Rod
- Universal Pedicle Screw
- Interspinous Spacer
- Lumbar Expandable Corpectomy Cage

Cervical Stabilization
- Cervical Stabilization System
- Cervical Intervertebral Fusion Cages
- Cervical Expandable Corpectomy Cage
- Mesh Corpectomy Cage
- Cervical Plating System

OsteoConductive Surface Technology
- Nano-HA Coating Technology
- Nano-Ti Coating Technology

4.1 Section 4

Lumbar Stabilization

- Lumbar Intervertebral Fusion Cages
- Lumbar & Thoracic Stabilization System
- Iliac Screw
- Dynamic Rod
- Universal Pedicle Screw
- Interspinous Spacer
- Lumbar Expandable Corpectomy Cage

Lumbar Intervertebral Fusion Cages

Lumbar intervertebral fusion cages are indicated to be implanted
through posterior aspect of lumbar column.

PLIF intervertebral fusion cage

Enhanced stability with transverse ridges
on superior and inferior surfaces.

Diagnosis of the cage position in radiographic
scans through titanium alloy pins.

Cages are manufactured from PEEK
polymer with radioulence advantage
to allow observation of bone fusion.

Optimized bone graft spacing accelerating
the fusion of adjacent vertebrae.

TLIF intervertebral fusion cage

Lumbar & Thoracic Stabilization System

This system is intended for static stabilization of lumbar and thoracic
vertebrae in treatment of severe spinal injuries in lumbar & thoracic levels.
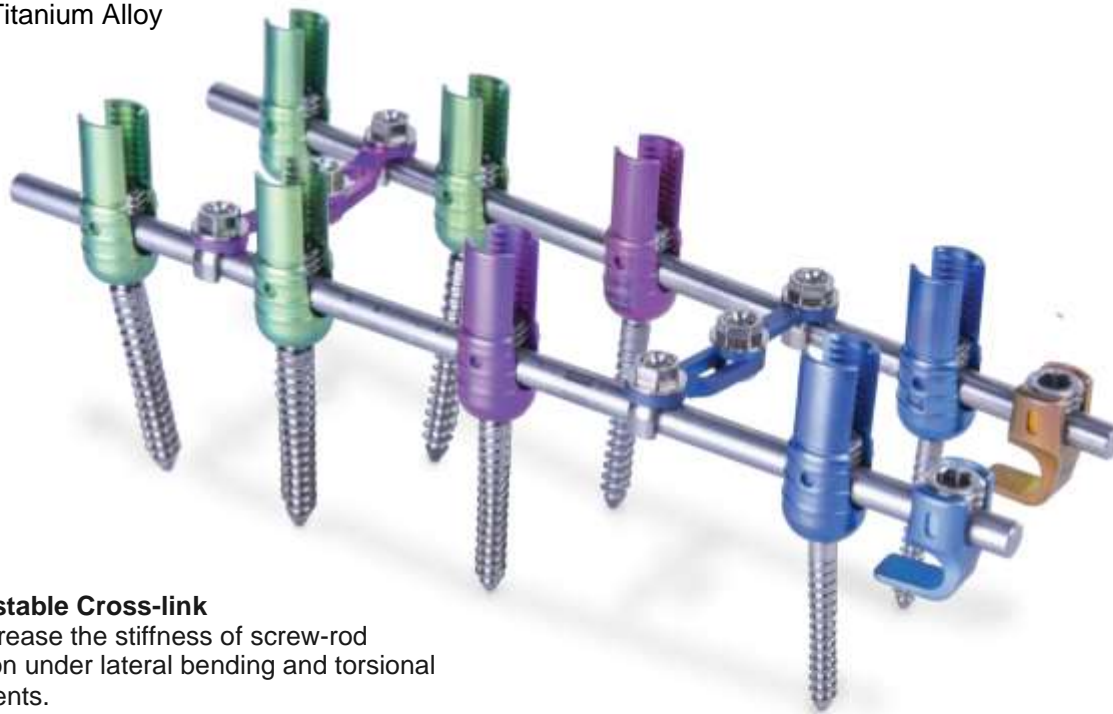- Manufactured from High Strength Titanium Alloy

Lumbar Hook
for enhancement of biomechanical
strength at non fixed levels.

Adjustable Cross-link
to increase the stiffness of screw-rod
fixation under lateral bending and torsional
moments.

Iliac screw with cap and rod holder suitable for treatment of severe injury at the lower vertebrae of lumbar or sacral with involvement of ilium.

Dynamic Rod with an universal joint to provide micro-movement of spinal fixation for improvement of patient functionality.

**Universal Pedicle Screw** with dual inserting nut and curved locking washer suitable for scoliosis treatment

Interspinous Spacer

This implant is intended for treatment of mild herniated disc to limit the range of motion in extension of spinal column.
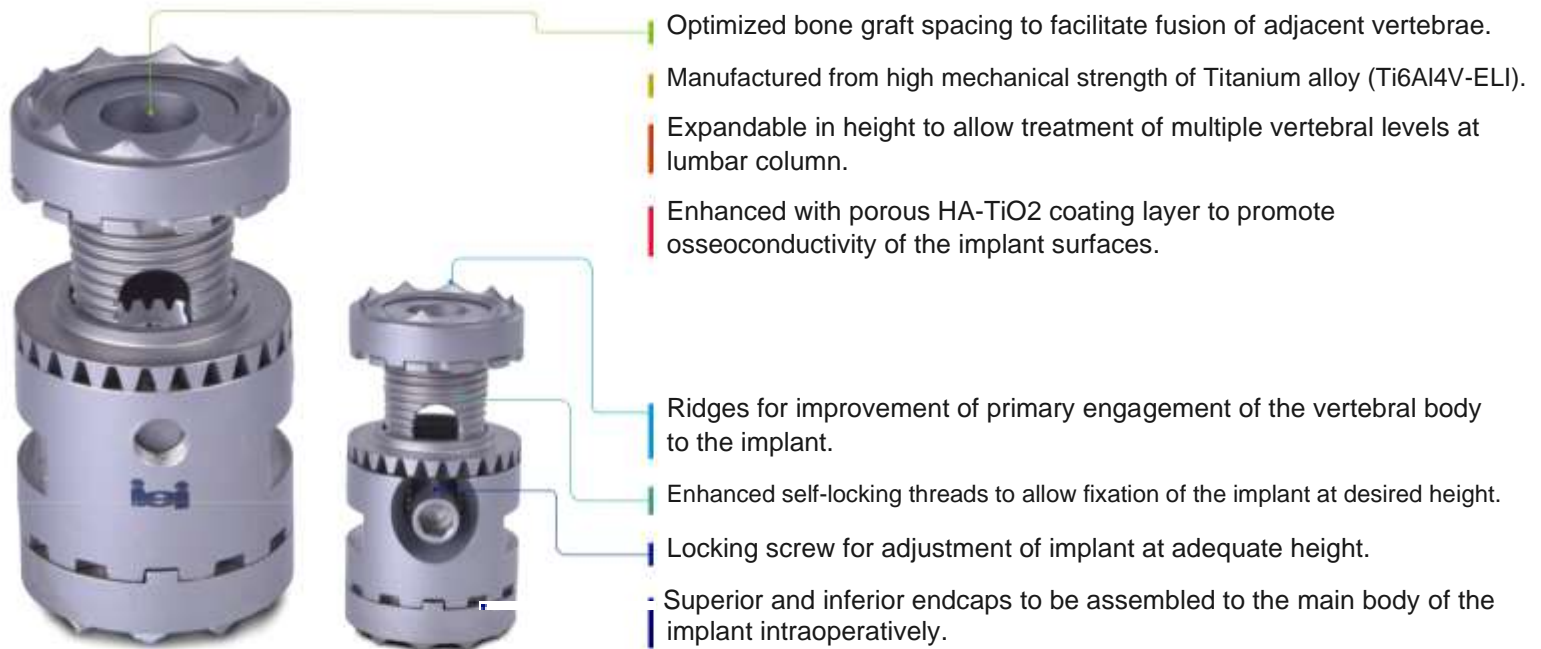

Anatomic low-profile implant

Proven implant design with substantial clinical history.

Preservation of the range of motion in flexion of Spinal Column.

Manufactured from high strength titanium alloy (Ti6Al4V-ELI)

Enhanced surface biocompatibility and corrosion resistant with anodized TiO2 coating.

Deep interlaminar insertion

Protect neurological structures

Preservation of the disc
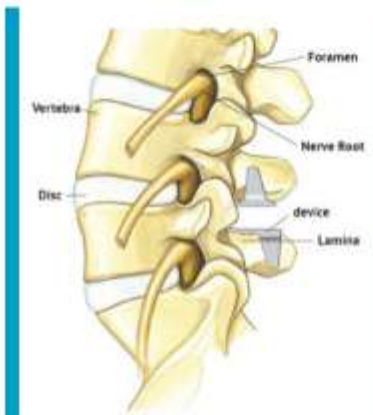
U shape to reduce stress on spinous processes.

Lumbar Expandable Corpectomy Cage

This implant is intended for treatment of severe degenerated or fractured vertebral bodies in lumbar column.

Optimized bone graft spacing to facilitate fusion of adjacent vertebrae.

Manufactured from high mechanical strength of Titanium alloy (Ti6Al4V-ELI).

Expandable in height to allow treatment of multiple vertebral levels at lumbar column.

Enhanced with porous HA-TiO2 coating layer to promote osseoconductivity of the implant surfaces.

Ridges for improvement of primary engagement of the vertebral body to the implant.

Enhanced self-locking threads to allow fixation of the implant at desired height.

Locking screw for adjustment of implant at adequate height.

Superior and inferior endcaps to be assembled to the main body of the implant intraoperatively.

4.2 Section 4

Spinal Implants

Cervical Stabilization

- Cervical Stabilization System
- Cervical Intervertebral Fusion Cages
- Cervical Expandable Corpectomy Cage
- Mesh Corpectomy Cage
- Cervical Plating System

ISO KIA

Cervical Stabilization System

This system is intended for static stabilization of cervical vertebrae
in treatment of severe spinal injuries in cervical column.

- Manufactured from High Strength Titanium Alloy

Adjustable Cross-link to increase the
stiffness of screw-rod fixation under
lateral bending and torsional moments.

Cervical Hook for enhancement of
biomechanical strength at non-fixed levels.

Cervical Intervertebral Fusion Cages

Cervical intervertebral fusion cages are indicated to be implanted through anterior aspect of cervical column.

Cage-Plate assembly

Optimized Bone Graft Spacing accelerating the fusion of adjacent vertebrae.

Cages are manufactured from PEEK polymer with radioulence advantage to allow observation of bone fusion.

Enhanced with Transverse Ridges on Superior and Inferior Surfaces for Mechanical Integration with vertebrae endplates.

Diagnosis of the cage position in radiographic scans through titanium alloy pins.

Cervical Cage-Spacer

Cervical Bladed Cage

Cervical Expandable Corpectomy Cage

This implant is intended for treatment of severe degenerated
or fractured vertebral bodies in cervical column.
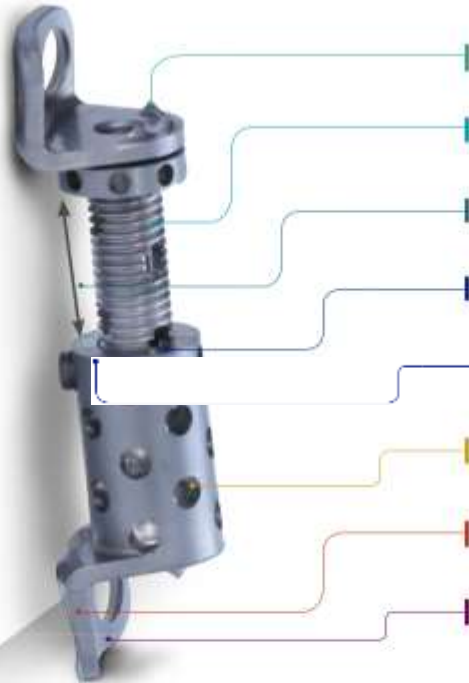
Ridges for improvement of primary engagement of the vertebral body to the implant.

Enhanced self-locking threads to allow fixation of the implant at desired height.

Expandable in height to allow treatment of multiple vertebral levels at cervical column.

Manufactured from high mechanical strength of Titanium alloy (Ti6Al4V-ELI).

Locking screw for adjustment of implant at adequate height.

Optimized bone graft spacing to facilitate fusion of adjacent vertebrae.

Endplates for enhancement of fixation stability to the vertebrae.

Enhanced with porous HA coating layer to promote osseoconductivity of the implant surfaces.

Mesh Corpectomy Cage

This implant is intended for treatment of severe degenerated or fractured vertebral bodies in cervical column.
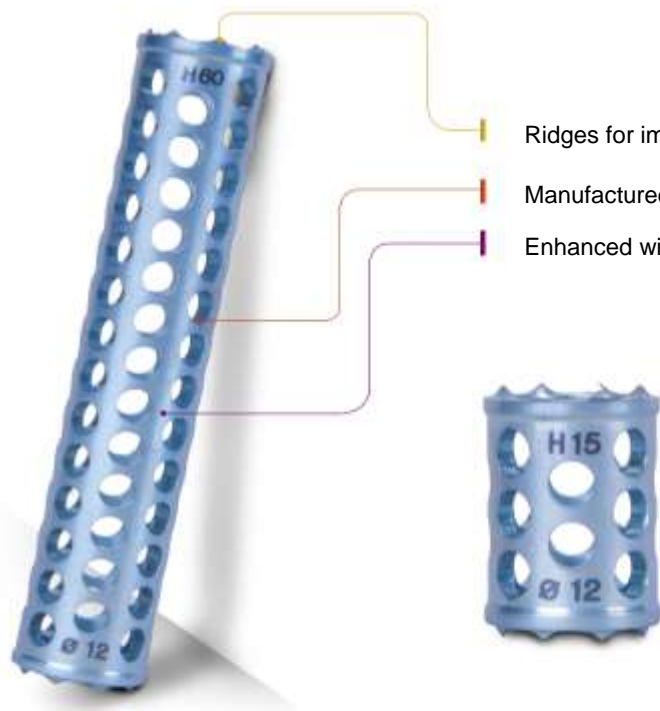
Ridges for improvement of primary engagement of the vertebral body to the implant.

Manufactured from high mechanical strength of Titanium alloy (Ti6Al4V-ELI).

Enhanced with porous HA coating layer to promote osseoconductivity of the implant surfaces.


Increased bone graft spacing to facilitate fusion of adjacent vertebrae.

Available in various diameters 10 ,12 ,14 mm.

Available in various lengths from 12 to 60 mm with 3mm increment.

Optimized mechanical strength and meshing holes on the cage wall.

Cervical Plating System

Low profile Plating System is intended for anterior stabilization of the cervical injuries associated with degeneration, instability, and trauma.

Optimized biomechanical rigidity and flexibility

Manufactured from high strength titanium alloy (Ti6Al4V-ELI) enhanced with TiO2 coating layer.
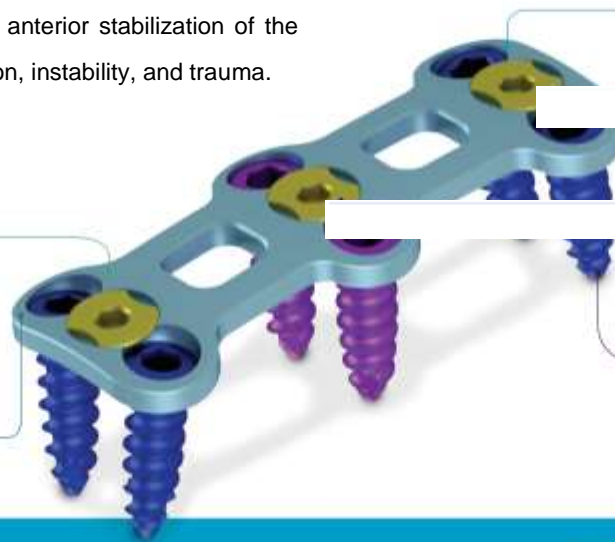
Anatomic low-profile implant with thickness of 1.8mm.

One step locking of the clamp over the screw head.

No over-height of clamp from the plate surface.

Self-drilling screw tip for easy purchasing.

**Longitudial curved profile** to be anatomically seated on the anterior aspect of the cervical column.

Angular fixation of the screw in longitudinal axis

Plate variety of 1 to 4 levels, each in various lengths with 2 to 4 mm increment

Transverse curved profile to be anatomically seated on the anterior aspect of the cervical column.
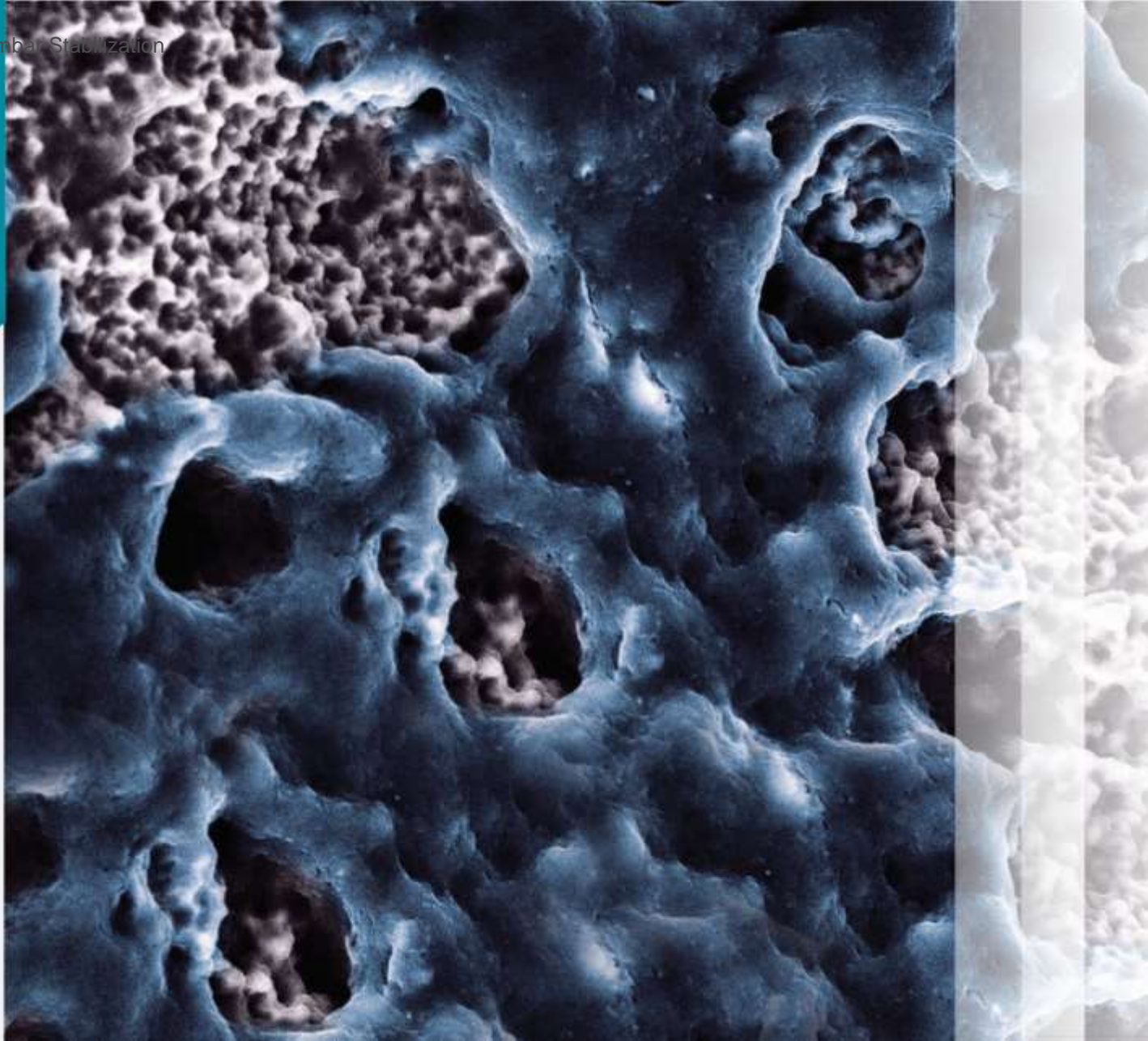
Angular fixation of the screw in transverse axis.
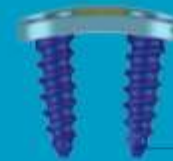
4.3 Section 4

Osteo-
Conductive
Surface
Technology

- Nano-HA Coating
  Technology
- Nano-Ti Coating
  Technology

Nano-HA Coating Technology

This technology would enhance the osteoconductivity of the implant surfaces manufactured from titanium or titanium alloys.

Applicable for Pedicle Screws, Lateral Mass Screw, Mesh Corpectomy Cages, Expandable Corpectomy Cages, Screws for Anterior Stand-alone fusion.

Long-term effectiveness of osseointegration at the interface of bone-implant, particularly trabecular bone.

**Increased** bone-ingrowth through the surface of the implant.

Enhanced adhesion of the coating layer to the screw threads, particularly at thread crest.

Promote bone formation on the surface of the implant and significant reduction of fibrous tissue formation.

Enhanced corrosion resistant and biocompatibility effect compared to uncoated titanium implant.

Effective distribution of the calcium-phosphate phases with the prominent phase of HA with Ca/P ratio of 1.67.

Porosity of developed bioactive-osseoconductive coating layer in the range of 1 to 5 mico- meter.
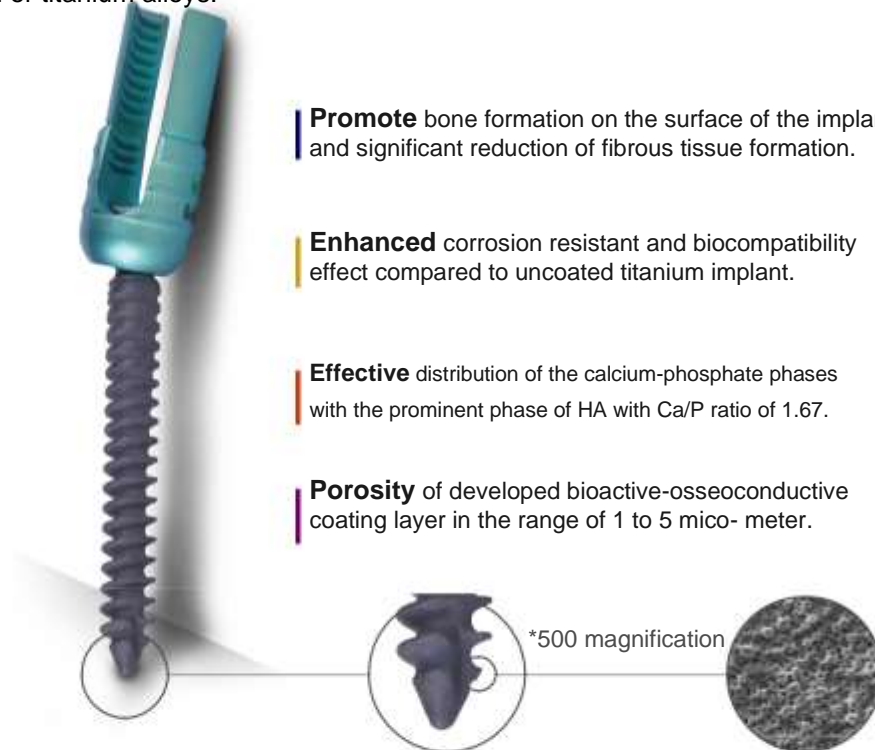
*500 magnification

Nano-Ti Coating Technology

This technology would enhance the osteoconductivity of the implant surfaces manufactured from PEEK polymer.

Applicable for PEEK interbody fusion cages.

Osseoconductive coating layer for promotion of cell adhesion and proliferation.

Enhanced osseointegration of the implant-vertebral to reduce the risk of implant migration.

Nano thickness coating layer.

Coated with 100% pure titanium to prevent toxicity effects.

No debonding of the coated layer during impaction force of cage implantation.

Long-term effectiveness of osseointegration at the interface of cage-vertebral body.

Accelerate bony fusion of the adjacent vertebrae at the implanted segment.

Increased formation of the apatite and prevent formation of fibrous tissue at the interface of cage- vertebral body.

Promotion of PEEK hydrophilic characteristics to increase flow of body fluid at the interface of the cage-vertebral body.

Section 5

Smart Hospital Solutions
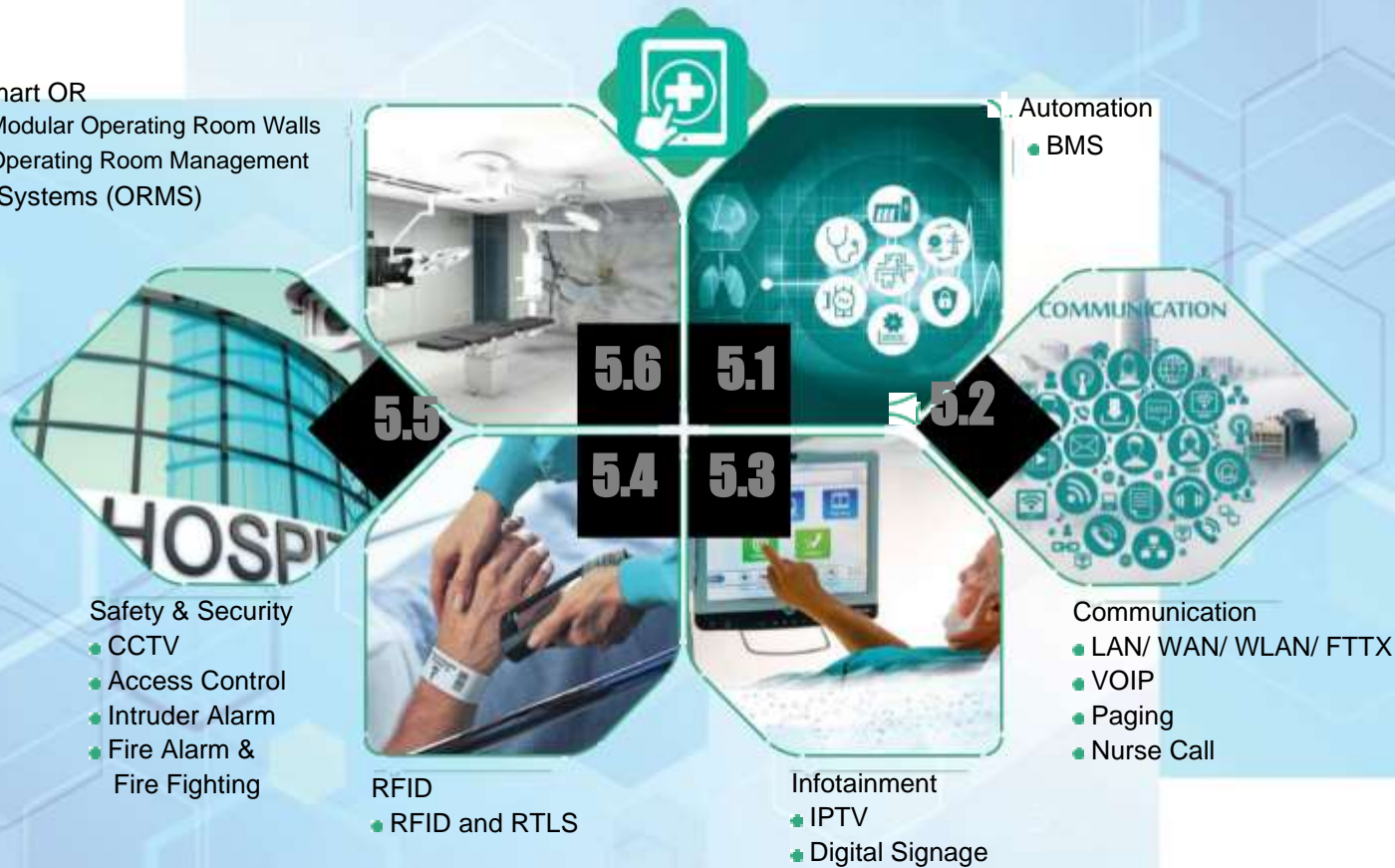
SAIRAN
medical
company

Smart OR
- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

5.1. Automation
- BMS

COMMUNICATION

5.6 5.1
5.5 5.2
5.4 5.3

Safety & Security
- CCTV
- Access Control
- Intruder Alarm
- Fire Alarm & Fire Fighting

RFID
- RFID and RTLS

Infotainment
- IPTV
- Digital Signage

Communication
- LAN/ WAN/ WLAN/ FTTX
- VOIP
- Paging
- Nurse Call

5.1 Section 5
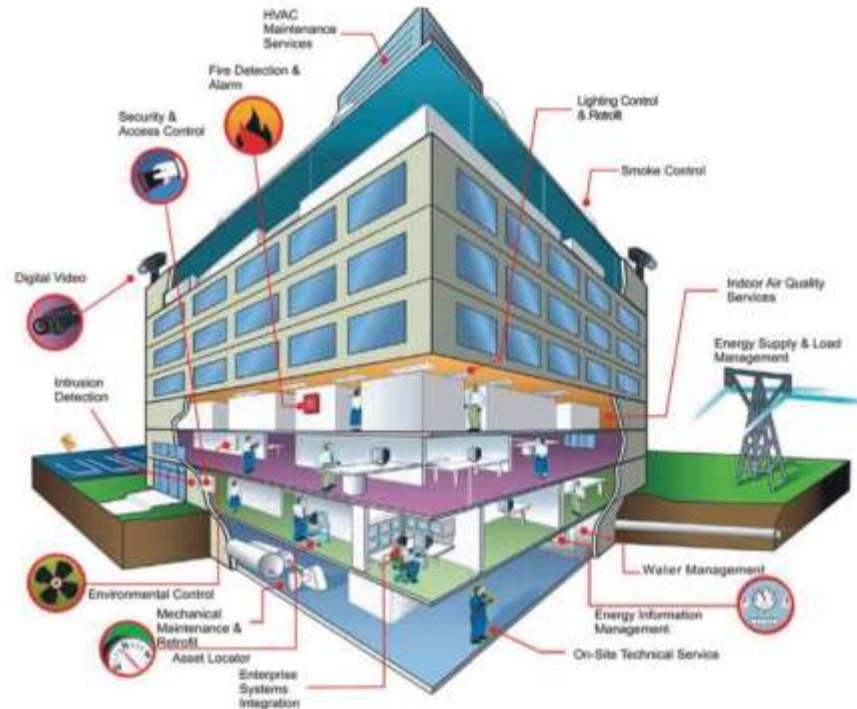
Smart Hospital Solutions

Automation

- BMS
  Building Management Systems

ISO KIA

BMS

- Hospital Lighting Control
- Hospital Curtain Control
- Hospital HVAC Control
- Hospital Energy Management
- Hospital Data Center Control
- Access Control Integration
- CCTV Integration
- Remote Monitoring Via LAN or Internet 2D
- or 3D Graphical User Interface Various
- Protocols (TCP/IP, MODBUS, KNX)

- *Optimizing Hospital Energy Consumption*

5.2 Section 5

Smart Hospital
Solutions

Communication

- LAN/WAN/WLAN/ FTTX
- VOIP
- Paging
- Nurse Call

LAN/WAN/WLAN/FTTX

- 10Gb/s Back Bone Network Speed
- Wireless 802.11ac Support Structured
- Copper and Fiber Cabling Fiber Optic
- Networks (FTTH/FTTX) FFTH for
- Hospital Data Infrastructure

- *Total Solution Integration*

VOIP

- Software Base or Embedded PBX Centers
- Video Phone Support
- Dect Phone Support
- Paging Integration

Paging

- IP Base Amplifiers
- Minimum Cabling Requirements
- Design Flexibility

Flexible and Expandable Paging Design

Nurse Call

- Full IP Base
- Call recorder
- Connecting HIS

5.3 Section 5

Smart Hospital
Solutions

Infotainment

- IPTV
- Digital Signage

IP TV

- Live TV
- Video on Demand Service
- Music on Demand Service
- HIS Integration
- PACS Integration
- BMS Integration
- Installing on Bedside Patient Console or Smart Displays

- *Hospital or a Five-Star Hotel … !*

Digital Signage

- Doctors Information
- Hospital Services
- Medical Services Advertising
- Remote Content Management
- Various Templates
- Various Schedules
- Optimum Network Infrastructure Bandwidth
- Installing on Smart Displays

5.4
Section 5
Smart Hospital Solutions

RFID

- RFID and RTLS

RFID and RTLS

- Different Readers Antennas and Tags
- Medical Equipment Tracking
- Surgical Instruments or Drugs Tracking
- Patient Tracking
- Real-time Location System via WLAN Network for Doctors, Nurses , Patients and Equipment
- Wavehouse Management
- Easily Integrated with All ERP or HIS, Softwares
- Easily ORMS Integration

- *Locate Everything & Everybody Quickly*

5.5 Section 5

Smart Hospital Solutions

Safety & Security

- CCTV
- Access Control
- Intruder Alarm
- Fire Alarm & Fire Fighting

CCTV

- IP Base
- Video Analytic
- Camera Monitoring Software and Hardware

- *Increase Your Hospital Security Level*

Access Control

- RFID Card
- Finger Print
- Face Detection
- Plate Recognition

ISO KIA

Intruder Alarm

- Microwave Sensors
- Passive and Active Infrared Sensors
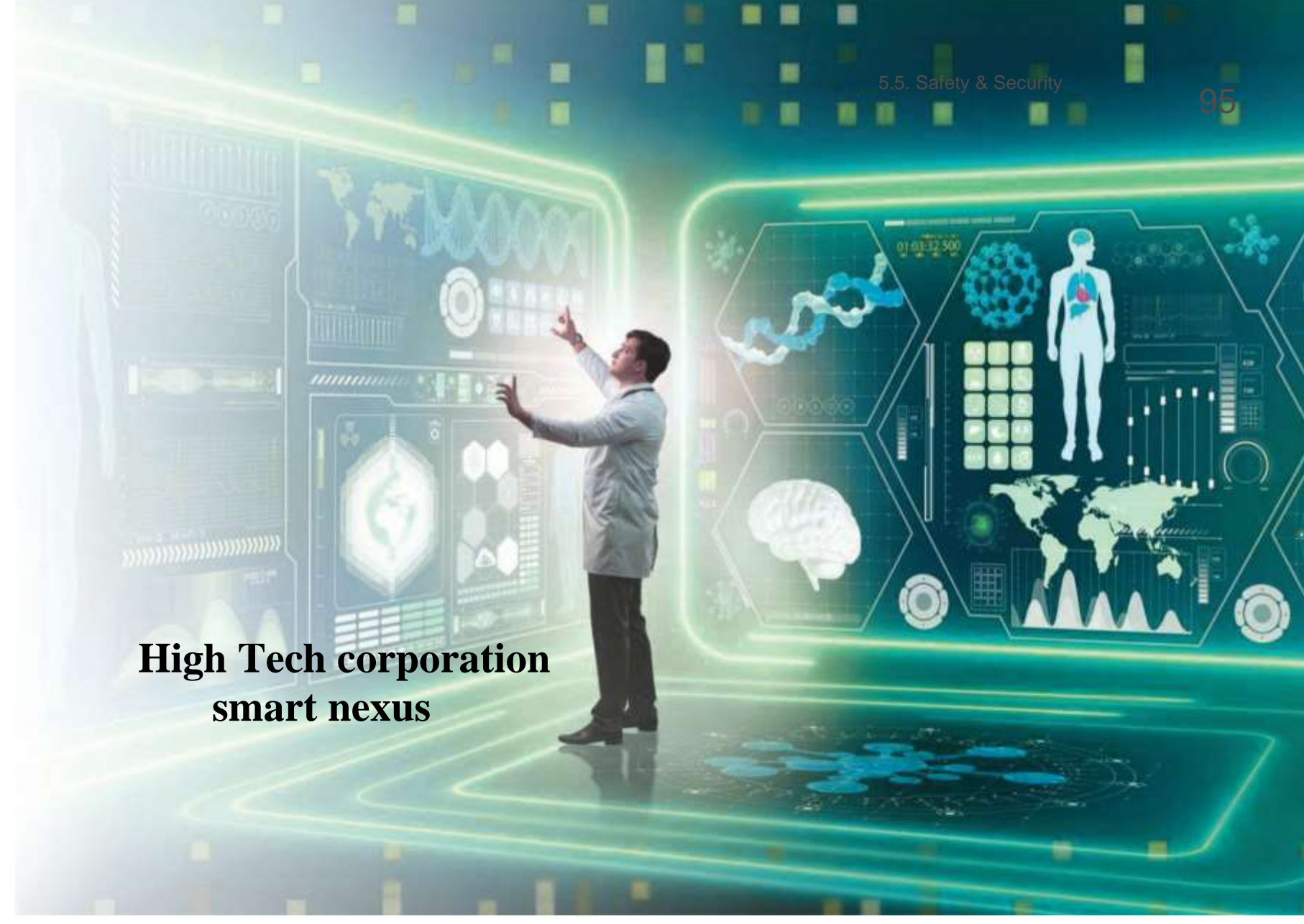- Microphonic Sensors
- Fiber Optic Sensors

Sometimes Safety is More Important than Security

Fire Alarm and Fire Fighting

- Smoke Detection
- Heat Detection
- BMS Integration

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smart nexus**

5.6 Section 5

Smart Hospital Solutions

Smart OR

- Modular Operating Room Walls
- Operating Room Management Systems (ORMS)

Modular Operating Room Walls

NEW
PRODUCT

- Laminated Glass Panels
- Stainless Steel Panels
- Galvanized Panels
- Laminar Airflow
- Stainless Steel Door
- Operating Room Lighting
- Connecting to ORMS Via BMS Panel
- Various Anti-Bacterial Colors and Motifs
- Available for Operating Rooms, ICU, CCU,
- CSR and … Fast Installation

- *Ultimate Elegance and Sterilized Implementation*

Operating Room Management Systems (ORMS)

* Operating Room Video Source Integration
  (HDMI, SDI, VGA, DVI, TCP/IP, PACS)
* Video Routing
* Video Streaming
* Video Recording (USB, NAS, SAN)
* Surgical Light Control
* Video Conferencing
* BMS Control Panel
* Music Control Panel
* HIS & PACS Control Panel
* RFID Reader

* *Now the Operating Room is Under Your Control*

ISOKIA

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قابلیت سفارشی سازی
طرح دیوارها

Section 6

Services

Medical Equipment Calibration Laboratory

Formally Certified by the General Bureau of Medical Equipment

Quality Control and Calibration of Following Equipment:

- ECG Monitoring Equipment
- Patient Monitoring Equipment
- Pulse Oximeter Equipment
- Blood Pressure Equipment
- Defibrillator Equipment
- Infusion Device
- Transcutaneous Pacer Device
- Patient Ventilator Equipment
- Safety Tests on all Types of Medical Equipment

■ Defibrillator Analyzer   ■ Patient Simulator

■ NIBP Calibrator   ■ Infusion Device Analyzer

■ SpO$_2$ Simulator   ■ Gas Flow Analyzer

Section 7
History

Section 7
History

Cardioset ASA 9

- 19" Diagonal Display
- ECG + HR
- SpO_2 % + PR
- RESP + RR
- NIBP
- 2 Temp + 2 IBP
- CO_2 (Mainstream)

Options

- Arrhythmia Analyzer
- ST Segment Detection
- 2.0" Thermal Recorder
- CO_2 (Sidestream)

Cardioset VINA 9

- 15" Diagonal Display
- ECG + HR
- SpO_2 % + PR
- RESP + RR
- NIBP
- 2 Temp+ 2 IBP
- CO_2 (Mainstream)

Options

- Arrhythmia Analyzer
- ST Segment Detection
- 2.0" Thermal Recorder
- CO_2 (Sidestream)

Cardioset PARS

- 15" ,17" ,19" and 21" Color TFT Display (User Selectable)
- ECG, RESP, SpO$_2$ %, NIBP, IBP (2 Channels), Temp (2 Channels),

  Multi-Gas/CO$_2$/O$_2$
- Depth of Anesthesia
- Sidestream CO$_2$, ST/ Arrhythmia
- Thermal Recorder, 12 leads ECG

Cardioset X110

- 10.4" Color TFT Display
- ECG, RESP, SpO$_2$ %, IBP (2 Channels), Temp (2 Channels) , NIBP
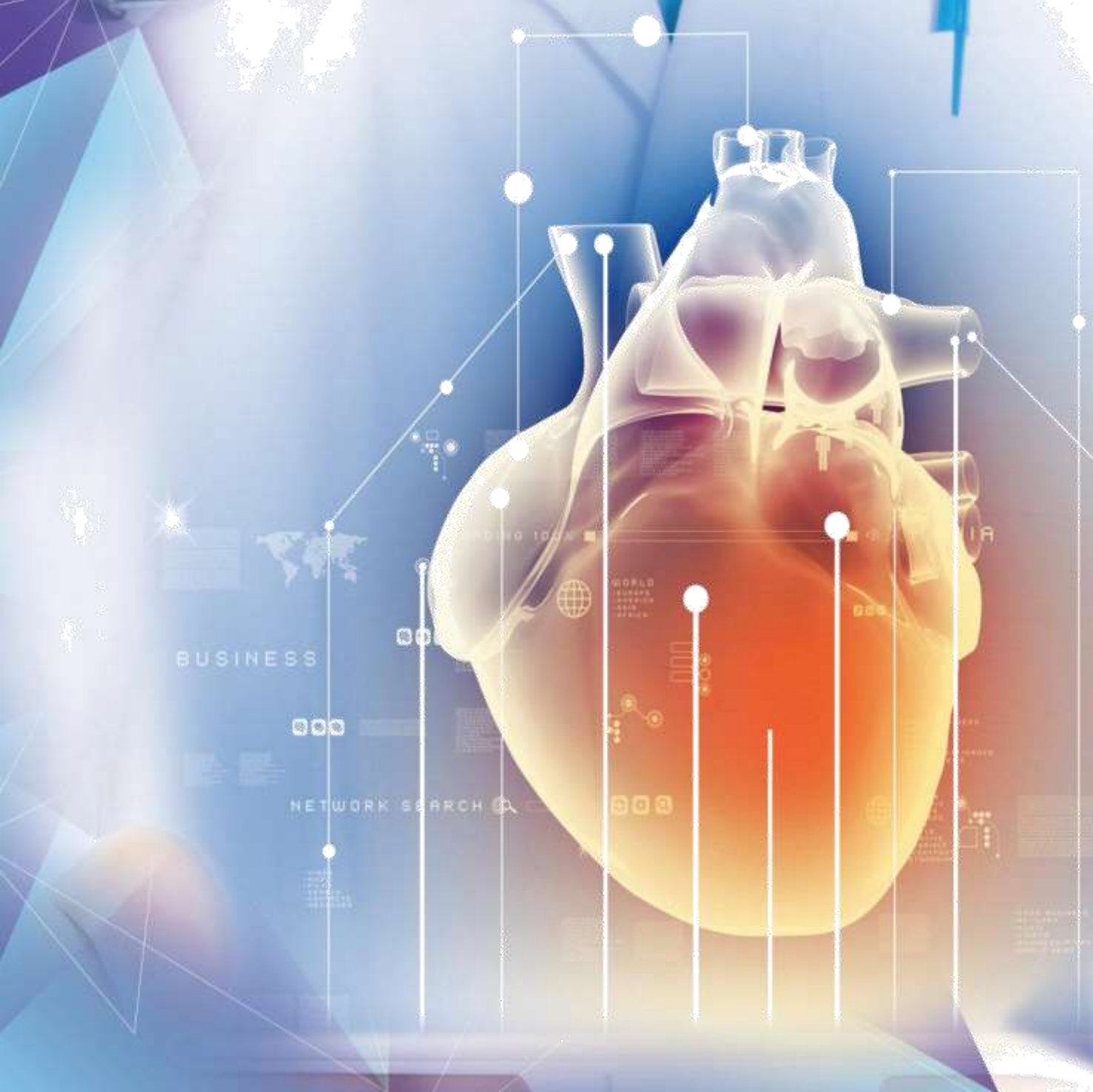- CO$_2$, Thermal Recorder

Cardioset S110

- 6.7" Color TFT Display
- ECG, RESP, SpO$_2$ %, NIBP

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Cardiovascular

OEM Modules
- OEM Modules

Patient Monitor
- ARAD P10+
- SmartView
- ARAD P10
- FX7
- LX110
- Sina 5

Defibrillator/Monitor
- RELIVE DM5
- RELIVE AED5

Telemedicine Solutions
- Health Care SADRA A15
- SAMA
- Web Based
- T220
- T110

Central Station
- Live W110

Patient Monitor Accessories
- IOA Vision
- Mi-Cap C1
- Capnography & Multigas Accessories
- Monitor Accessories
- Trolly & Stand

ISO KIA

Patient Monitor

- ARAD P10+
- SmartView
- ARAD P10
- FX7
- LX110
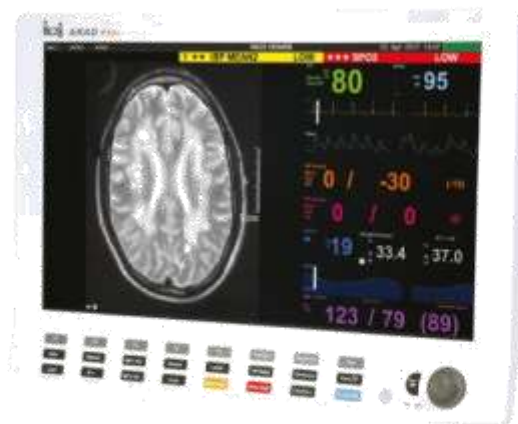- Sina 5

Cardioset ARAD P10+

Parameters
- Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- EMG & BIS
- CO_2 (SideStream)
- Multigas Analyzer (N_2O, O_2, AA1, AA2)
- ECG Out
- 2.0" Thermal Recorder
- Remote Patient Monitoring

Key Features
- Intuitive 19" Wide Multi Touch Display
- Wi-Fi / Bluetooth Communication Support
- New Graphical User Interface
- Full HD External Display Support
- Full Customizable Screen Views
- Dynamic Auto Size Waves
- Dual Bed Monitoring

- Reliable PACS & HIS Support

SmartView Vital Signs Monitors

Parameters
- Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
- Numeric Parameters: HR, RR, $SpO_2\%$, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- EMG & BIS
- Impedance Cardiography (ICG)
- CO_2 (SideStream)
- Multigas Analyzer (N_2O, O_2, AA1, AA2)
- ECG Out
- 2.0" Thermal Recorder
- Remote Patient Monitoring
- Two Additional IBP Channel

■ SmartView MP22

■ Smartview MP19

Key Features

- Equipment Class: Class I, Internally Powered, IPX1, Continuous Operation
- PACS & HIS Support
- Wi-Fi / Bluetooth Communication Support
- Intelligent Integrated Software with Comprehensive Vital Signs Monitoring
- Humanized Operation Interface
- High Resolution Display Option Improves Viewing
- Replaceable Wide Displays (12, 15 ,19, 22 Inch)
- Capability of Using Both Multi-Touch Screen Display & Keypad
- Fully Customizable Modules
- Dynamic Auto Size Waves
- Mother & Baby Patient Monitor
- Comprehensive Care with Vitals and Viewing
- Dual Bed Monitoring
- Wired and Wireless Networking with Continues Data Transfer
- External USB/Wi-Fi Printer Support

- *Multi-touch Screen, Stylish New Design*

■ *SmartView MP15*

■ *SmartView MP12*

Cardioset ARAD P10

Parameters
- Waveforms: ECG (3 ,7 ,12 leads), RESP, Pleth, EEG (One line), IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- EMG & BIS
- CO_2 (SideStream)
- Multigas Analyzer (N_2O, O_2, AA1, AA2)
- ECG Out
- 2.0" Thermal Recorder
- Remote Patient Monitoring

Key Features
- 19" Wide Screen Display
- User Friendly Software
- Convenient Rotary Knob & Shortcut Keys
- ECG Recording, NIBP Report and Trend for All Parameters
- Printable Disclosure
- Lightweight (< 5 Kg Including Battery)

- *All You Expect from a Vital Signs Monitor*

Cardioset FX7

Parameters
- Waveforms: ECG (3 ,7 leads), RESP, Pleth, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- 2.0" Thermal Recorder

Key Features
- 15" color TFT Display
- Simple and User Friendly Operation
- ECG Recording, NIBP Report and Trend for All Parameters
- Lightweight (< 5 Kg Including Battery)

- *Fast boot less than 5 seconds*

Cardioset LX110

Parameters
- Waveforms: ECG (3 ,7 leads), RESP, Pleth, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- 2.0" Thermal Recorder

Key Features
- 12.1" color TFT Display
- ECG Recording, NIBP Report and Trend for All Parameters
- Lightweight (< 5 Kg Including Battery)

- *Compact & Impressive Design*

Cardioset Sina 5

Parameters
- Waveforms: ECG (3 ,7 leads), Pleth, RESP, IBP (2 channels)
- Numeric Parameters: HR, RR, SpO_2%, PR, NIBP, Temp, IBP (2 channels)

Options
- Arrhythmia Analyzer
- ST Segment Detection
- CO_2 (Sidestream)
- GPS / GPRS
- 2.0" Thermal Recorder

Key Features
- 5" color TFT Display
- ECG Recording, NIBP Report and Trend for All Parameters
- Extra Lightweight (< 2 Kg Including Battery)

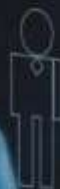* *Minimum Size, Maximum Portability*

Patient Monitor Accessories

- IOA Vision
- Mi- Cap C1
- Capnography & Multigas Accessories
- Monitor Accessories
- Trolly & Stand

BIS Monitoring IOA Vision

NEW PRODUCT

Measurement
- Index of Consciousness
- SQI, ESR, EMG and BIS Measurement

Technical Highlights
- Compliance with Europe Standards
- Offered Accessories and Peripherals by SAIRAN Medical Equipment Industries
- Easy Installation and Utilization
- Bluetooth Interaction with SAIRAN Patient Monitors
- Waveform Display on Patient Monitor and Saving as Trend
- Graphical Low Consumption LCD
- Minimum 6 Hours Operation Time Using External Rechargeable Battery

- *What Does Complete the Operating Room ?*

Capnograph Mi-Cap C1

Measurement

- Mainstream Sensor Type
- Non-Dispersive Infrared Gas Analysis Technique
- Compact Multi-Channel Infrared Detector

Technical Highlights

- CO_2 Measurement Range: 0 -19.7%
  0 -150 mmHg, 0 - 20 kPa
- CO_2 Resolution: 0.1 mmHg
- CO_2 Measurement Accuracy:
  0 - 40 mmHg: ± 2 mmHg
  41 - 70 mmHg: ± 5% of Reading
  71 - 100 mmHg: ± 8% of Reading
  101 - 150 mmHg: ± 10% of Reading
- Respiration Rate: 3 -150 Brpm
- Respiration Rate Accuracy: 1% ±1Brpm
- Circumstance Pressure: 86 to 106 kPa
- Power Demand: 5 V ± %5 (max ripple 200 mVp-p)
- Power Consumption: <150 mA
- Storage Condition: 40°C to 70°C , < 90 % RH,
  Non-Condensing
- Operating Condition: 5°C to 50°C , < 10 to 90 %
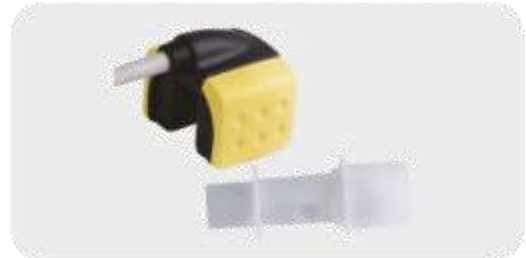 RH, Non-Condensing

- Analyze Each Cycle of Respiration System

Capnography & Multigas Analyzer Accessories

- Respironics CO_2 Probe
- Extension Cable
- Adapter & Nomoline

- IRMA CO_2 Probe
- Extension Cable
- Adapter & Nomoline

- ISA CO_2 Probe
- Extension Cable
- Adapter & Nomoline

Monitor Accessories

Nellcor / Nonin SpO$_2$
- Adult, Pediatric and Neonate
- Adhesive, Reusable and Multisite Sensors

NIBP CUFFs
- Cuff for Adult, Pediatric and Neonate
- Single Use Cuffs

IBP
- Periodical Reusable Transducers
- Dome, Clamp and Brocket
- Extension Cable

Temp
- Temperature Probe-Skin (Adult, Pediatric and Neonate), YSI Compatible
- Temperature Probe-Rectal (Pediatric), YSI Compatible

ECG
- ECG Patient Cable 3,5,10 Wires
- Extension Cable (3m, 5m)

Battery
- Li-ion 12 v / 2.3 Ah
- Sealed Acid 12 v / 2.3 Ah

Trolly & Stand

Monitor Trolly
- Left and Right Rotation
- Bracket Horizontal/Vertical

Monitor Stand
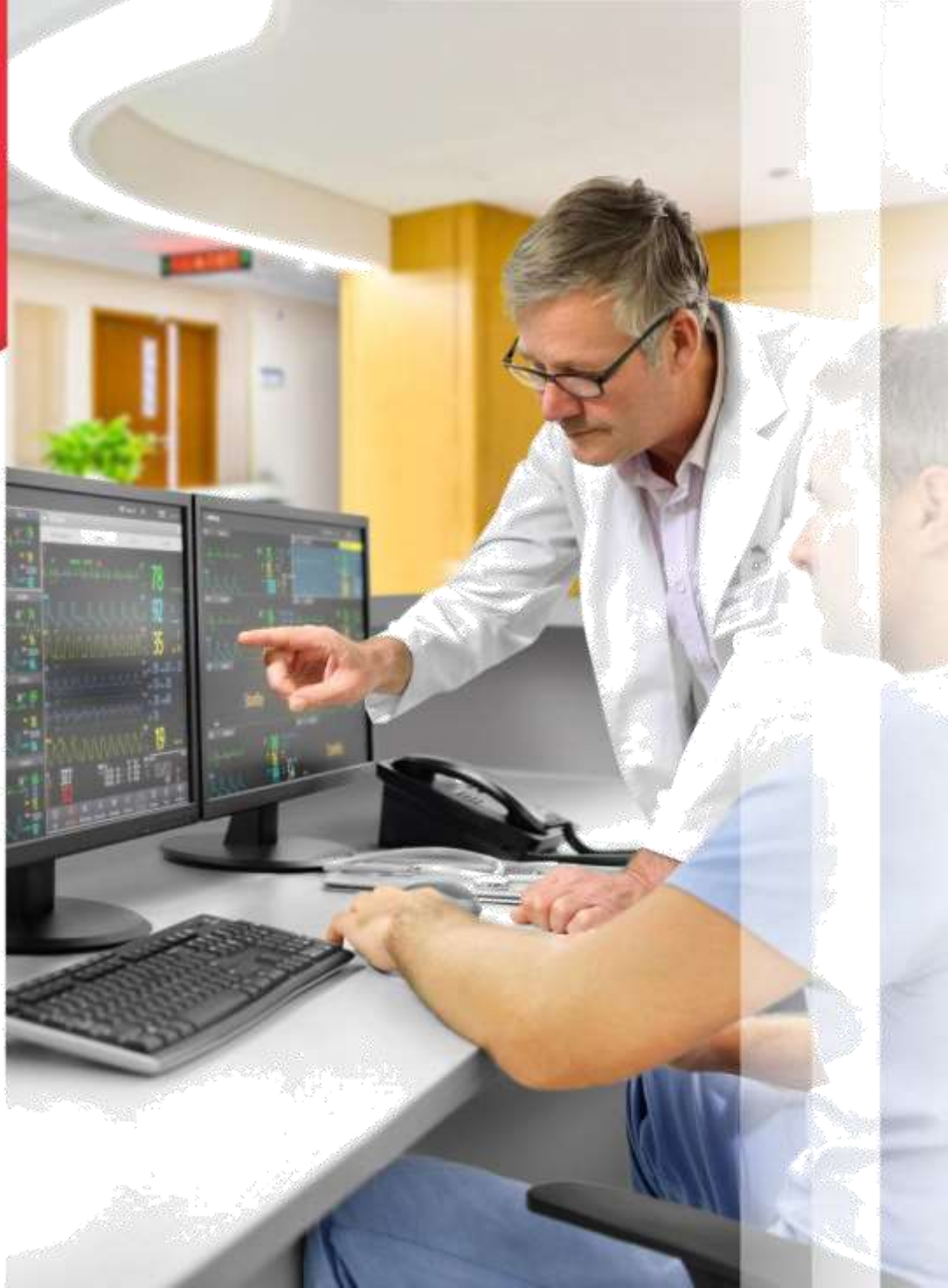- Easy to Use
- Excellent Quality Material & Design

High Tech Corporation Smart nexus

Central Station

- Live W110
  Wide Screen
  Central Station

Live W110

Parameters

- Vital Signs of 16 Telemetry Systems or Bedside Patient Monitors through Wireless Network/LAN
- Up to 5 Graphs Simultaneously for Each Patient Including ECG (I, II, III, aVL, aVR, aVF, V), $SpO_2\%$, Pleth, RESP, IBP1 and IBP2
- Patient Information, Continuous Records History and Nurse Calls

Key Features

- Wide 20" Touch Screen Display
- Two-Way Communication with Patient Monitors
- Arrhythmia Analyzer
- Portable Thermal Recorder & LaserJet Printer Support
- User Friendly & Elegant Interface

- *Intensive Care of All Patients Simultaneously*

Telemedicine Solutions

- SADRA A15
- SAMA
- Web Based
- T220
- T110

HealthCare SADRA A15

Parameters
- ECG (3 ,7 ,12 leads), RESP, Pelth, IBP, SpO_2%, NIBP, Temp, CO_2
- Glucose, Lipid and PCG Measurement

Key Features
- Touch Screen 10.1" Color TFT Display
- Real Time Patient Monitoring
- GSM (2G, 3G, 4G), LAN and Wi-Fi Data Interface
- Support all UVC Standard Otoscopes
- One Channel Audio-In for Connecting Stethoscope
- Video Telephony and Consultation
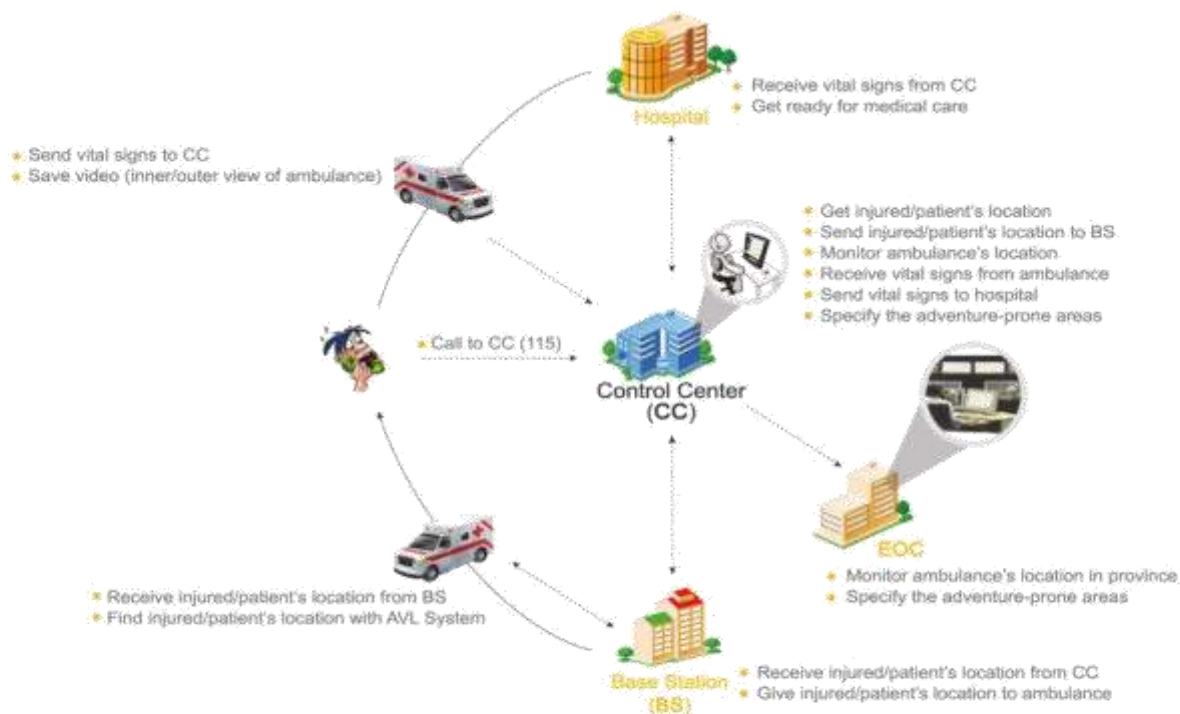- Real-Time Transmit Information to Central Viewer Station

- *Transfer Information Instead of Moving Patient*

TeleMonitoring Solution (SAMA)

- Extend Patients Care Everywhere

- Send vital signs to CC
- Save video (inner/outer view of ambulance)

Hospital
- Receive vital signs from CC
- Get ready for medical care

- Call to CC (115)

Control Center (CC)
- Get injured/patient's location
- Send injured/patient's location to BS
- Monitor ambulance's location
- Receive vital signs from ambulance
- Send vital signs to hospital
- Specify the adventure-prone areas

EOC
- Monitor ambulance's location in province
- Specify the adventure-prone areas

- Receive injured/patient's location from BS
- Find injured/patient's location with AVL System

Base Station (BS)
- Receive injured/patient's location from CC
- Give injured/patient's location to ambulance

Web Based Patient Monitors

Technical Highlights

- Access to Web Monitoring from www.sairanmed.ir Website
- Showing All Vital Signs from SAIRAN Patient Monitors
- Define Permission and Accessibility for the User
- 24 Hours Patient Care

* Monitor Patients around the World

Cardiopack T220

Telemetry Monitoring System

- Transmission of ECG Graph (I,II,V)
- Storing Data for 48 Hours on microSD Memory (up to 16 GB)
- 24 hours Operating Time for Transmission ECG Using Only 1*AA Battery
- Provides a Graphical Screen to Display All Monitored ECG Leads
- Nurse Call Button on the Transmitter
- Enhances Patient Comfort with a Compact, Lightweight Design
- Up to 16 Telemetry Transmitters Can Be Used Simultaneously in a Cardiac Care Center
- 8 Channels Receivers with Internal Antenna
- Frequency/Power Settings Can Be Modified in Accordance with the Local Country Regulations
- High Reliability, Narrowband Wireless Transmission and Digital Modulation
- In Accordance with EN60601-2-27, ANSI/AAMI EC13, IEC 60601-1, IEC 60601-2 Standards

- Don't Confine Patient for Cardiac Care

Cardiopack T110

Telemetry Monitoring System

- Transmission of ECG Graph (I,II ,III), SpO$_2$%, Pulse Rate, Plethysmograph
- Provides a Graphical Screen to Display All Monitored ECG Leads
- Nurse Call Button on the Transmitter
- 8 Channels Receivers with Internal Antenna
- High Reliability, Narrowband Wireless Transmission and Digital Modulation
- Up to 16 Telemetry Transmitters Can Be Used Simultaneously in a Cardiac Care Center
- 48 Hours Operating Time for Transmission of Both ECG and SpO$_2$% Using Only 2*AA Batteries
- In Accordance with EN60601-2-27, ANSI/AAMI EC13, IEC 60601-1, IEC 60601-2 Standards

- *More Vital Signs Are Available Now with Cardiopack*

Defibrillator/ Monitor

- RELIVE DM5
- RELIVE AED5

RELIVE DM5

Defibrillator
- Energy: 1-200 J
- Waveform: Biphasic Truncated Exponential
- Mode: Manual, Cardioversion, AED
- Charging Time: Less than 6 Seconds

Noninvasive Pacing
- Waveform: Rectilinear, Constant Pulse
- Current: 0 - 200 mA
- Rate: 30 - 180 ppm
- Refractory Period: 340 ms (30-80 ppm); 240 ms (90-180 ppm)
- Mode: Demand or Fixed Rate

NEW
PRODUCT

- Saving Life is our Pleasure

Numeric Parameters
- Waveforms: ECG, Pleth, IBP (2 channels), CO_2
- Numerical Parameters: HR, PR, SpO_2 %, Temp, IBP (2 channels), NIBP, $EtCO_2$

RELIVE AED5

- Model: Public ,Pro
- Functional Mode: ECG, Manual, AED
- Max Energy: 200 J
- Analyze Time: < 8 s
- Charge Time: < 6 s
- CPR Helper
- Audio & Visual Guide for Using the Device in Public Model
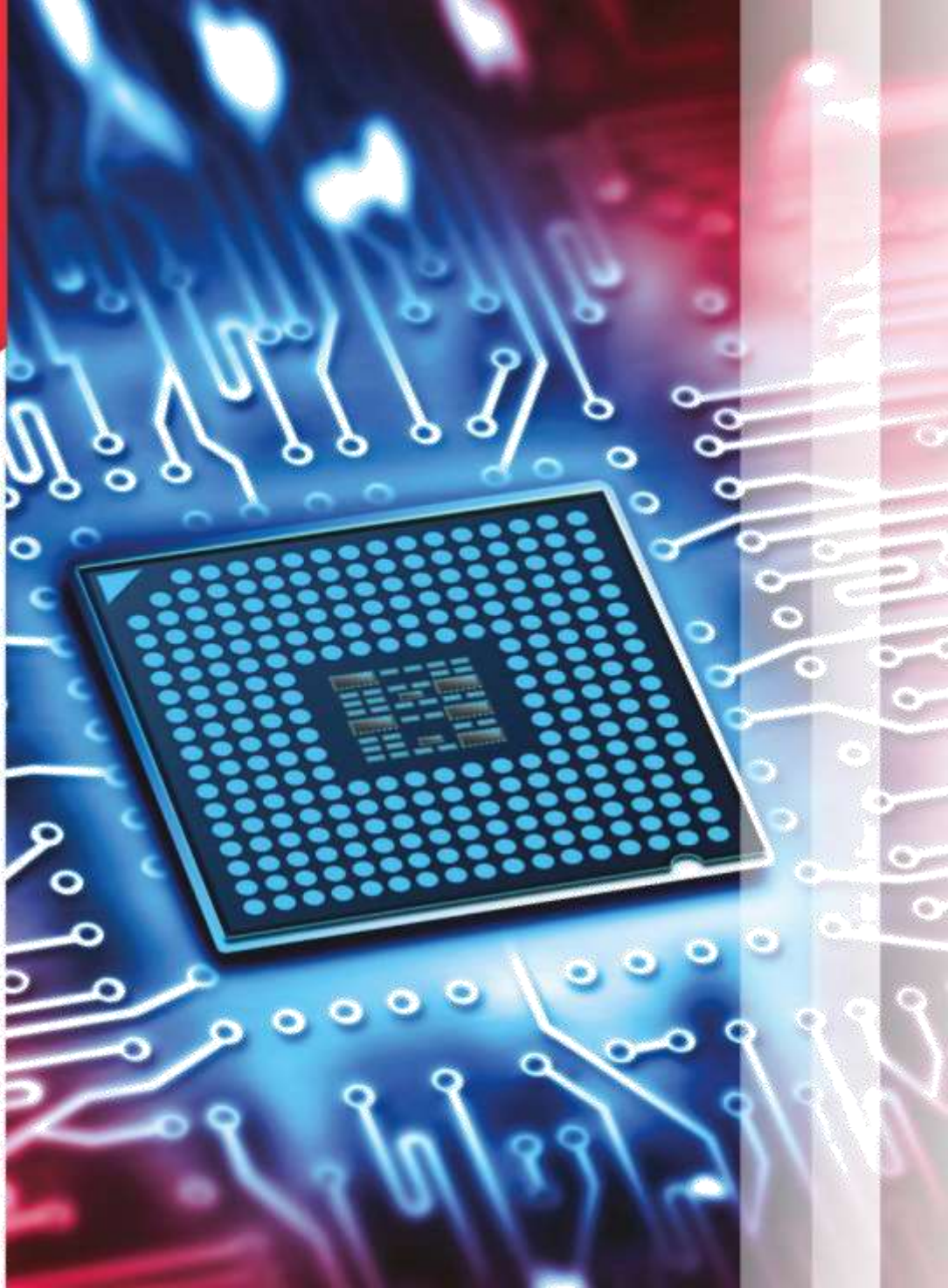
- *Ready for Use Indicator*

ISO KIA

OEM
Modules

- OEM Modules
Patient Monitoring
OEM Modules

OEM Modules

- Mainboard
- IBP & Temp Module:
  2/4 Channels IBP and 2 Channels Temp
- ECG & Respiration Module:
  3,10 Channels High CMRR ECG Amplifier
  3,7,12 Leads

- Thermal Recorder
- EEG Amplifier Module:
  21 Channels high CMRR Amplifier

History

ISO KIA

ISO KIA

Neurology

ISO KIA

EEG Accessories
- Wire & CAP & Electrodes

Consciousness Monitoring
- BIS Monitoring IOA Vision

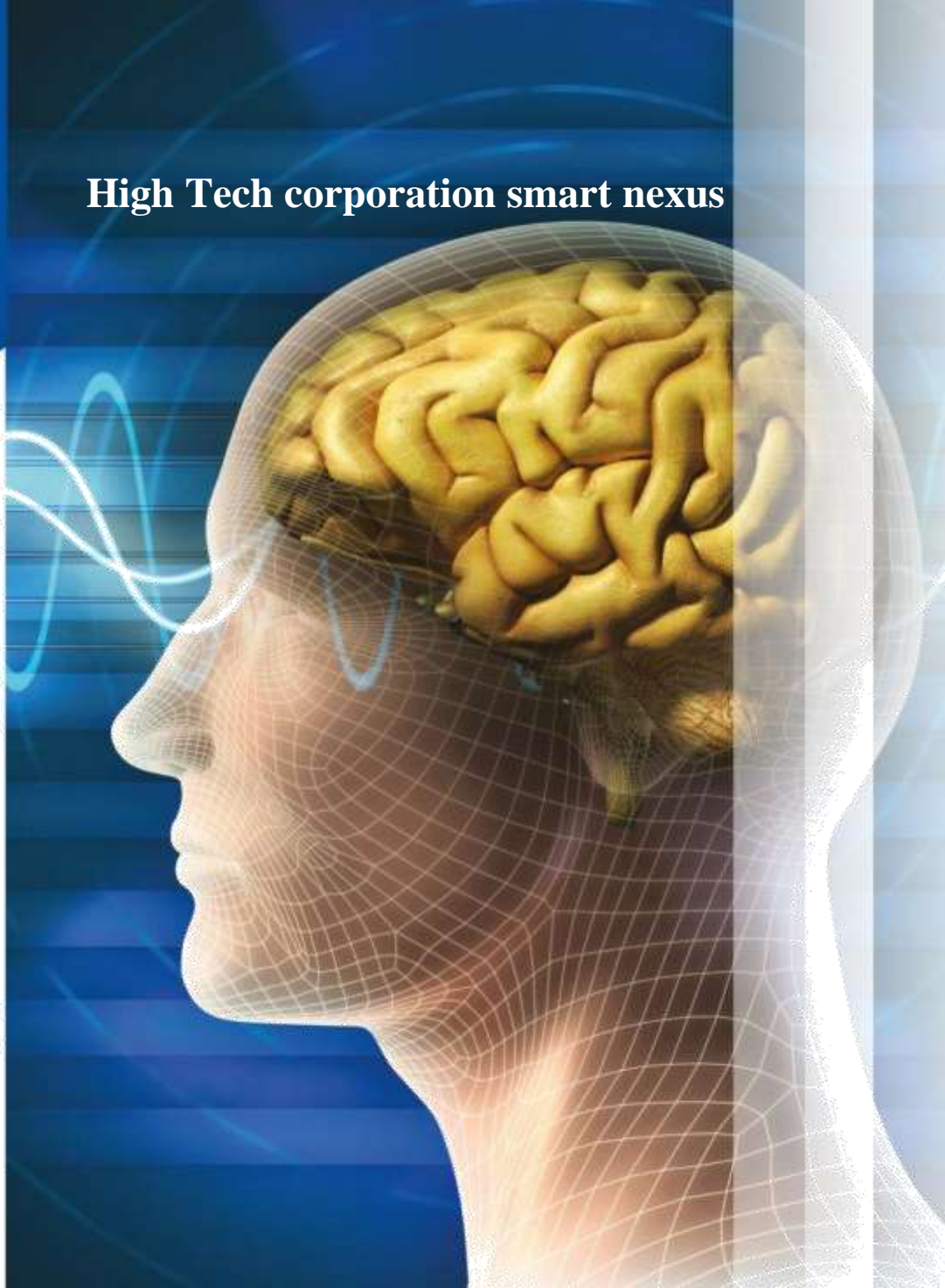**ElectroEncephaloGram (EEG)**
- E24
- E110

ISO KIA

High Tech corporation smart nexus

Electro-Encephalo-Gram (EEG)

- E24
- E110

ISO KIA

Neuroset E24

Technical Highlights

- Compact & Portable (Laptap System)
- 21 Channels EEG +3 Extra Amplifier Channels
- FFT Analysis
- Programmable Photic Stimulator
- Color Brain Map
- Impedance Check Measurement
- USB and Serial Communication
- Compact and Portable Design
- Multi Languages Support

- EEG Portability Is Possible Now

Neuroset E110

Technical Highlights

- 21 Channels EEG + 3 Extra Amplifier Channels
- 15" Monitor (Laptap System)
- Thermal Printing on 216 mm Wide Continuous Paper Same as Analog EEGs
- FFT and Brain Mapping Software Analysis
- Remontage and Digital Filtering
- Impedance Check Measurement
- USB and Serial Communication
- Compact and Portable
- Persian and English Languages Support
- Laser Color and Monochrome Printer Support

- *EEG, Opening a Window to Neuroscience*

Consciousness Monitoring

- BIS Monitoring
  IOA Vision

ISO KIA

BIS Monitoring IOA Vision

NEW PRODUCT

Measurement
- Index of Consciousness
- SQI, ESR, EMG and BIS Measurement

Technical Highlights
- Compliance with European Standards
- Offered Accessories And Peripherals by SAIRAN Medical Equipment Industries
- Easy Installation and Utilization
- Bluetooth Interaction with SAIRAN Patient Monitors
- Waveform Display on Patient Monitor and Saving as Trend
- Graphical Low Consumption LCD
- Minimum 6 Hours Operation Time Using External Rechargeable Battery

- *Complete Your Neurology Department*

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EEG Accessories

- Wire & CAP & Electrodes

ISO KIA

EEG Accessories

- EEG Wire
- EEG Electrodes
- Patient Head cap

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ISO KIA