

A collage of images showing modern smart home interiors. The collage includes a large screen on a wall, a smart display on a wall, and a smart display on a wall. The collage is set against a background of a grid of circles. The word 'E' is visible in the top left corner.



Smart Home Solutions

About IEI (Iran Electronics Industries)

Iran Electronics Industries (IEI) as the largest company in the fields of Electronic, Telecommunication, Defensive and Commercial Electro optics in the country meanwhile, industrial and technical interactions with more than 170 technological companies and establishment of 14 technological joint centers with domestic authentic universities, provides types of electronic products and services such as Radar, Electronic Warfare (EW), IT, Secure and Reliable Communication, Optics and Laser, Cyber defensive, Electronic Components, and required Space Systems for military forces and defensive industries in order to establish and increase the deterrent power and defense.



About ICI (Iran Communications Industries)

Iran communications industries (ICI) affiliated to Iran Electronics Industries (IEI) was established in 1972 with more than 35 years of credible reputation directed to manufacture diversity of communication means and participate in all international tenders with over 1000 skilled and educated personnel and lustrous background of successful experience is the main producer and designer of military/paramilitary communication equipment and total solution in Iran and middle east.

The principal mission of ICI is researching, designing and manufacturing various types of communication systems in military/non- military fields; as well as designing and implementing total solutions such as EW, C4I, jamming networks and ECCM systems in order to establish a stable, secured and flexible communication with a suitable capacity and also developing and open architecture radio waveform technology that allows multiple radio types to communicate with each other with the goal of meeting diverse communications through the latest and state of art technology communication means & networks.

Also ICI has the capability of repairing, renewing, manufacturing and assembling different types of communication means, as well as providing after sales services and technical consulting to have a continual improvement and development.

Effective presence and implementing national projects in the fields of communication with the co-operation of IN/OUT companies and exporting various kinds of communication products, technical engineering services to foreign countries are important pace in renewing and developing our national industry.

Concentrating on time, cost and quality management, developing human resources, and staff motivation are our main purposes.

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Smart Residential Towers

In addition to role of this smart system in optimizing energy consumption, it provides comfort so it can be hoped that the system is an appropriate solution for providing more comfort and speeding daily affairs of today occupied and modern life.

Smart home includes an advanced infrastructure where all electromechanical systems are monitored and controlled centrally so that its residents save energy considerably and enjoy living a luxury home as well as benefitting from advanced services of smart home.

Curtain Control Motor



Smart curtain control motors are 75W with position sensor so that stop position of curtain can be recognized and it can receive command as percentage in scenarios. This curtain can be opened from one side or two sides as well as receiving command via hand motion.

Tubular Blind Motor

Curtain
Protocols: buspro **KNX**



Smart tubular blind motors with 140W, 17rpm speed and less than 42dB noise have been designed to provide beautiful smart homes with complete silence.

S57 (5.7 Inch Touch Screen)



It is an attractive 5.7 inch full color touch screen equipped with Android operating system, Bluetooth, Wi-Fi, and RJ45 network port.

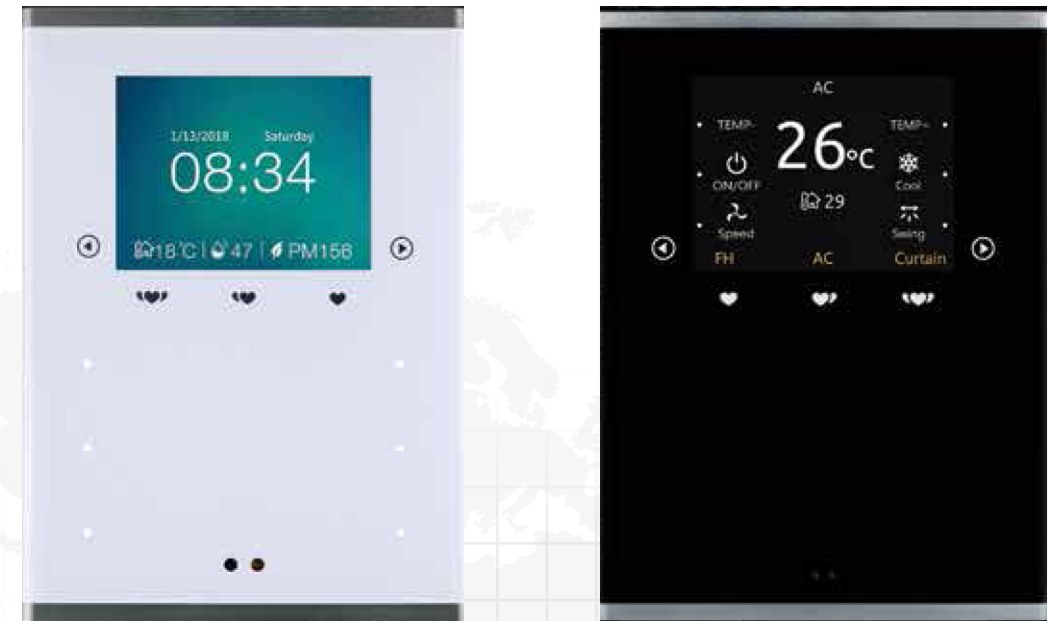
In addition it includes the WallApp software, proximity sensor for recognizing the user presence, temperature sensor, and gravity sensor.

S10 (10 Inch Touch Screen)



It is a full color 10 inch touch panel including aluminum frame, Android operating System, TCP/IP,KNX,Buspro network port, capability of performing as a door phone using the WallApp application. In addition it includes 4 internal relays, 6 digital inputs, temperature sensor, and proximity sensor.

Prism Pro (Multi-function Touch Panel)



It is a thermostatic smart panel including a full color LCD display screen with capability of light system control, electrical curtain, playing scenario, audio system, air condition system on floor, 3 short keys, the keys equipped with RGB and capability of color defining, audio feedback, internal temperature sensor and proximity sensor.

Prism Lite



It includes metallic frame with capability of light control, electrical curtain and playing smart scenarios, RGB buttons, audio feedback, internal temperature sensor and proximity sensor.

Modern Series DLP Smart (Metal Frame, Temp Sensor, Glass Cover)



Smart buttons are known as one of the most main parts of smart system which can be included classic or modern designs tastefully. DLP button is fully compatible with classic designs and can be sensed as traditional keys using push buttons. In addition it provides complete smart power for the user.

Modern Series DLP Touch (Metal Frame, Temp Sensor, Glass Cover, Touch Buttons)



This button includes touch buttons and also some buttons as short keys to review pages easily. In addition it can play role of thermostat of air condition system on floor as the other thermostatic smart buttons.

Granite Display Panel



Granite series of thermostatic smart button including 4 inch display screen has been designed with capability of light control, electrical curtain, playing scenario, audio system, and air condition system on floor. Metallic frame, temperature sensor, and full glass screen are other features of this individual button. In addition, it includes high graphic and resolution.

Granite Series (6 & 4 Buttons Smart Panel)



It includes metallic buttons for light control, electrical curtain, and playing scenario. In addition, it is equipped with RGB backlight with capability of color defining in gold yellow, gray, and silvery colors as well as capability of customized labeling and icon defining.

N1 Smart Mirror (HDL-N1)



1. Including 13.3 inch touch screen
2. Android operating system
3. FHD resolution
4. USB input
5. Audio output
6. Speaker
7. Wi-Fi connection
8. Bluetooth
9. LED ribbon with capability of setting and selecting color temperature
10. Connectable to health/IOT equipment e.g. smart balance
11. Blood pressure meter
12. Smart toothbrush
13. Skin tester

IP TV (Be Smart, Watch Smart)



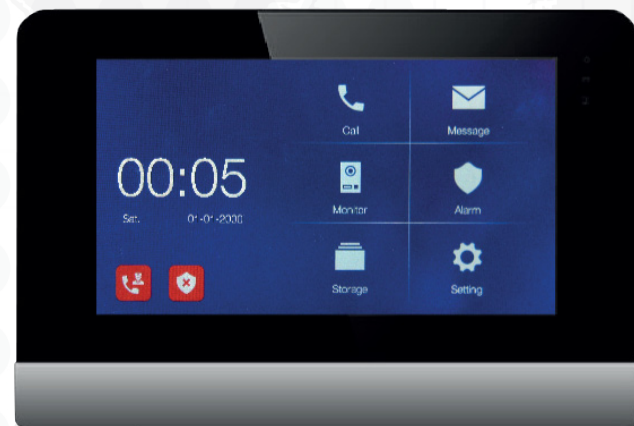
Capability of displaying satellite and digital TV channels simultaneously applied to smart televisions, mobile phones, and old televisions, controlling smart home via television, access to VOD and AOD from internet and locally, defining private channels and storing satellite channels.

IP-Base Door Phone System



Today door phones are not separable equipment from residential buildings and commercial/official complexes so that in case of upgrading their facilities, many requirements of the buildings/complexes are met. When the GPON networks are considered in a complex for low current data transmission, IP-Base door phones compatible with the TCP/IP are substituted for analogue door phones and as a result, many facilities/capabilities are added to the complex communication network. Using the system, video conversation can be made between the user and clientele remotely via mobile phone even when the user is not available there. In this case, even the door can be opened.

- Capability of sending group message from the guard panel to flats
- Capability of sending text message from flat to flat
- Supporting the IP-Base CCTVs
- Supporting various alarms
- Opening the door via password or ID card
- Supporting second alarm (alarm of each flat's door)
- Integrated updating the system time and date
- Capability of planning and editing the phone book and CCTVs
- No need to define IP for each system (supporting the DHCP server)
- Capability of updating the firmware remotely



Facilities

- Flat to Flat call
- Supporting the elevator's camera

Capacity

- Maximum 98 blocks in a network
- Maximum 799 floors in each block
- Maximum 19 input panel for each system
- Maximum 19 guard panel for each system
- Maximum 3 display screen in each flat



Guard Panel

- High quality aluminum according to the IP64 standard
- 2 Mega-pixel camera with 130° angle of view
- Access control via password or ID card
- Supporting the NO/NC electrical locks
- Dialing according to contact names
- Built-in
- Image sensor: 2M CMOS
- Angle of view: H130°
- Cable type: CAT5e
- Resistance against water and dust: IP64
- Network port: 10/100MRJ45
- Power supply: 18V POE Input/DC Input
- Power consumption: DC18V,680MA
- Operating temperature: -40°C ~ +60°C
- Dimension: 317.4×130×50 mm
- Color of body: silvery

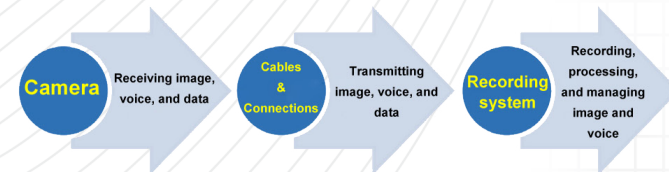
Internal Panel

- Supporting the door alarm
- Recording the made calls
- Supporting the 4-string performance
- Supporting the SD card and capability of photography
- Supporting the POE and DC input
- Built-in
- Resolution: 800 (RGB)×480
- Capacity: supporting up to 32G memory card
- Cable type: CAT5e
- Network port: 10/100MRJ45
- Power supply: 18V POE Input/DC Input
- Power consumption: DC18V,300MA (extra 500mA for alarm)
- Operating temperature: -10°C ~ +55°C
- Dimension: 210×140×15 mm
- Color: black-silvery

Door alarm of each flat-substitution of peephole

It is installed behind the flat's door and a 4-wire cable is connected to internal door phone so that by pressing the alarm button, image and voice of subscriber can be heard/observed via panel of internal door phone inside the flat and as a result peephole is not needed.

CCTVs



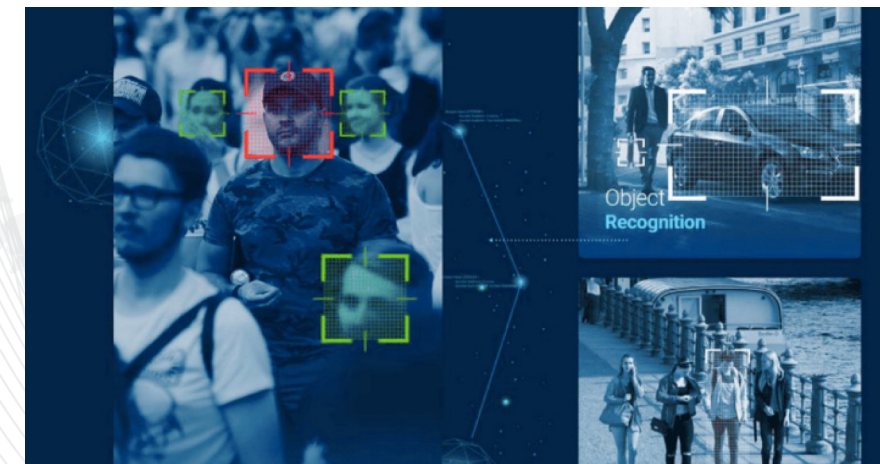
2&4 Mega-pixel Bullet and Dome CCTVs with HD resolution supporting smart image analyzing protocols, noise reduction, Mobile monitoring, ONVIF and 2D/3D as well as capability of connecting to the PoE power supply

Capability of using various types of indoor/outdoor CCTVs in complex yard and entrance

Temporary/permanent quick installation of wireless CCTVs everywhere in complex yard considering the Wi-Fi coverage

Face detection system using Artificial Intelligence and Deep Learning methods

If quick control and decision making is impossible for the operator due to numerous CCTVs and traffic in building, using image processing system solution connected to the tower's CCTV system is recommended.



Smart activity recognition technology using artificial intelligence

Benefitting from identity recognition technology by face, smart visual surveillance, and controlling available activities via the CCTVs using artificial intelligence with very high accuracy in a short time and with proper costs

Smart security is an applicable technology based on artificial intelligence and technology of identifying concepts and movement in CCTVs' videos/online videos. Using the most professional new generation of security provides capability of preventing events by identifying the movements before the main security events in the shortest time (less than 5s) and with very high accuracy as well as providing capability of designing and using flexible systems that meet security requirements of an area.

In addition to easy operation, the used technology in this method has very high accuracy (with safety factor of more than 95% up to 99% in some statuses) and high speed for data collection and transmission.

Public visual surveillance services based on artificial intelligence

- Face detection and tracking
- Searching individuals according to dress color
- Recognizing bag/baggage/backpack and their color
- Bag owner recognition and searching based on color and the owner
- Rudeness recognition (usual and public events in each environments especially quarrel)
- Recognizing special individuals e.g. VIP clients
- Recognizing traffic of individuals and its time
- Fire/explosion recognition
- Age/sexuality recognition



NVR (Network Video Recorder) system



16 Channel 4K NVR

This system is user for recording the stored videos by the CCTVs. It is connected to the olt via available layer 2 switch inside the rack.

NVR as a part of local network allows the network users to observe and record videos if they are authorized. In case that the local network is connected to internet, authorized persons can gain access to videos of the NVR via internet.



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