Intelligent Room and Scenario Control

Ideal for Smart Rooms & Intelligent eHomes

- ╱ Conference
- ╱ Meeting Room
- ╱ Building
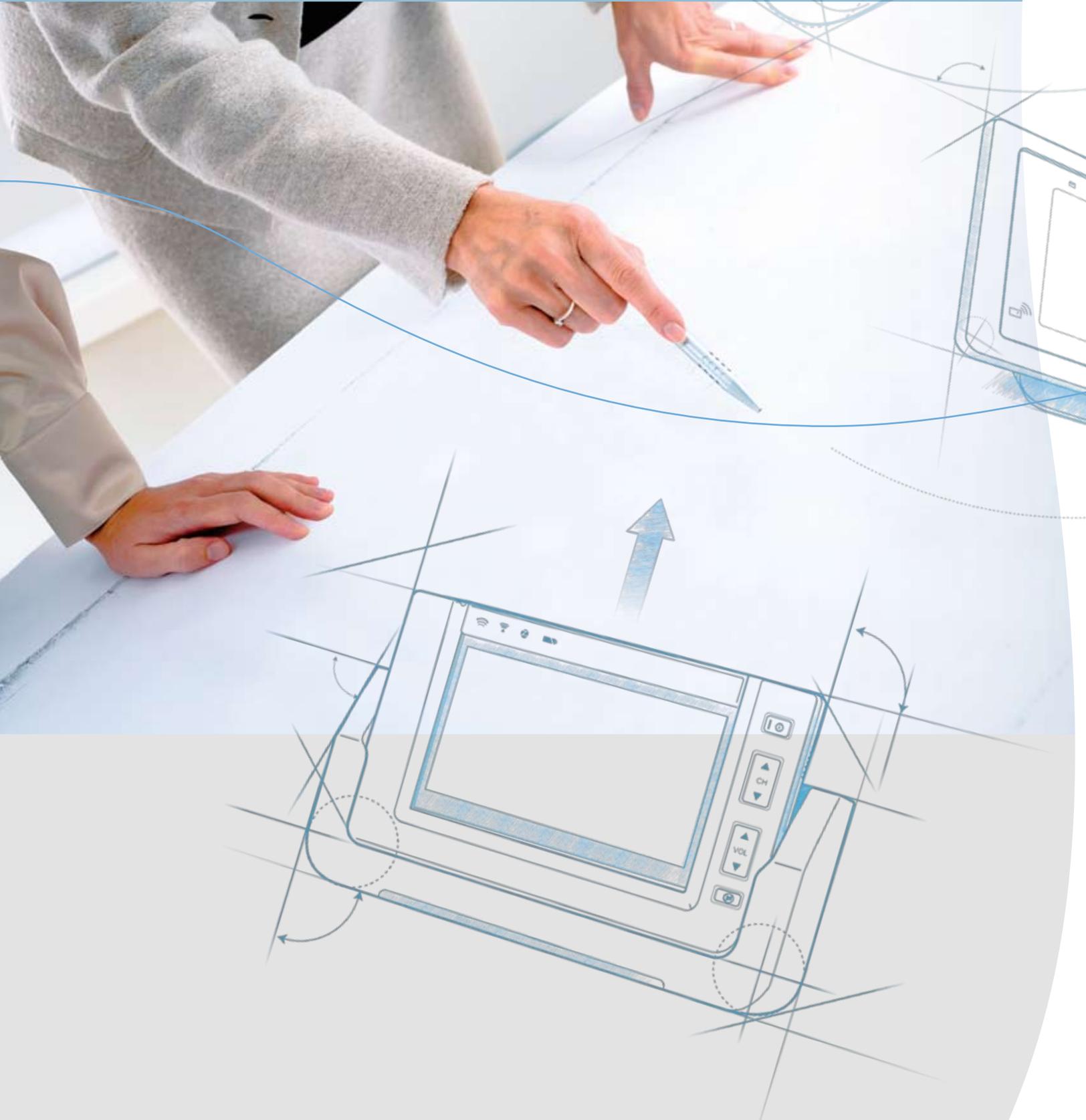- ╱ Rooms

![ADVANTECH]

Enabling an Intelligent Planet

Lifestyle Design

The vision transforms itself from thousands of scribbles and lines through numerous prototypes to final design, combining aesthetics with functionality, and fulfilling the requirements of a good product. The result helps create an environment that is inviting and pleasant, giving a sense of well-being to those in the office, in public places or at home.

good product design combines aesthetics
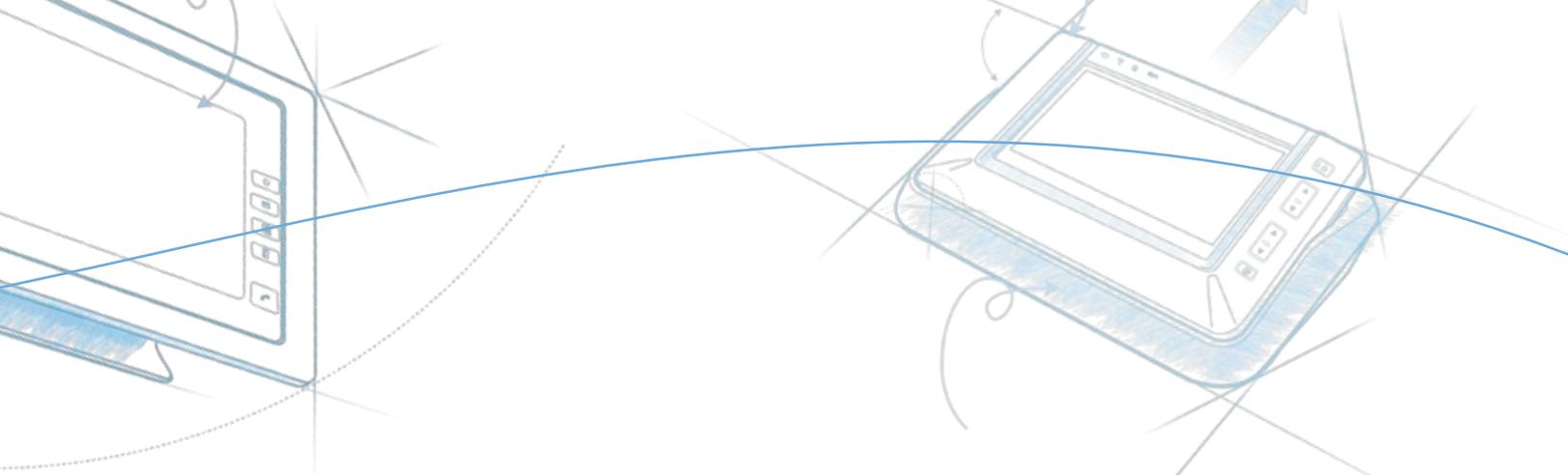
Conference / Meeting Rooms
• Video conference calls
• Scenario control
• Facilities control such as projectors
• Hotkeys for specific functions

Building
• Facilities and scene control
• Remote monitoring and access
• Energy Saving
• Security / surveillance management
• Emergency alarms

Smart Rooms
• Facilities and scenario control
• Interactive human interface
• Mobile access to all home systems
• Community service information
• Message publishing
• Video phone service
• Travel information
• Room service

Choices in
Comfort and Convenience

Advantech offers simple and cost-effective integrated automation and control solutions for various audio/video products in the meeting room. Combining "technology" with "a sense of comfort," the residential infotainment terminal enables users to manage and control a variety of audio/video, environmental, and communication technologies.

Users can manage a wide range of facilities and scene control through a single system interface. Its user-friendly connectors allow UbiQ to control virtually anything from audio, video and communication appliances, to lighting, climate and security devices.
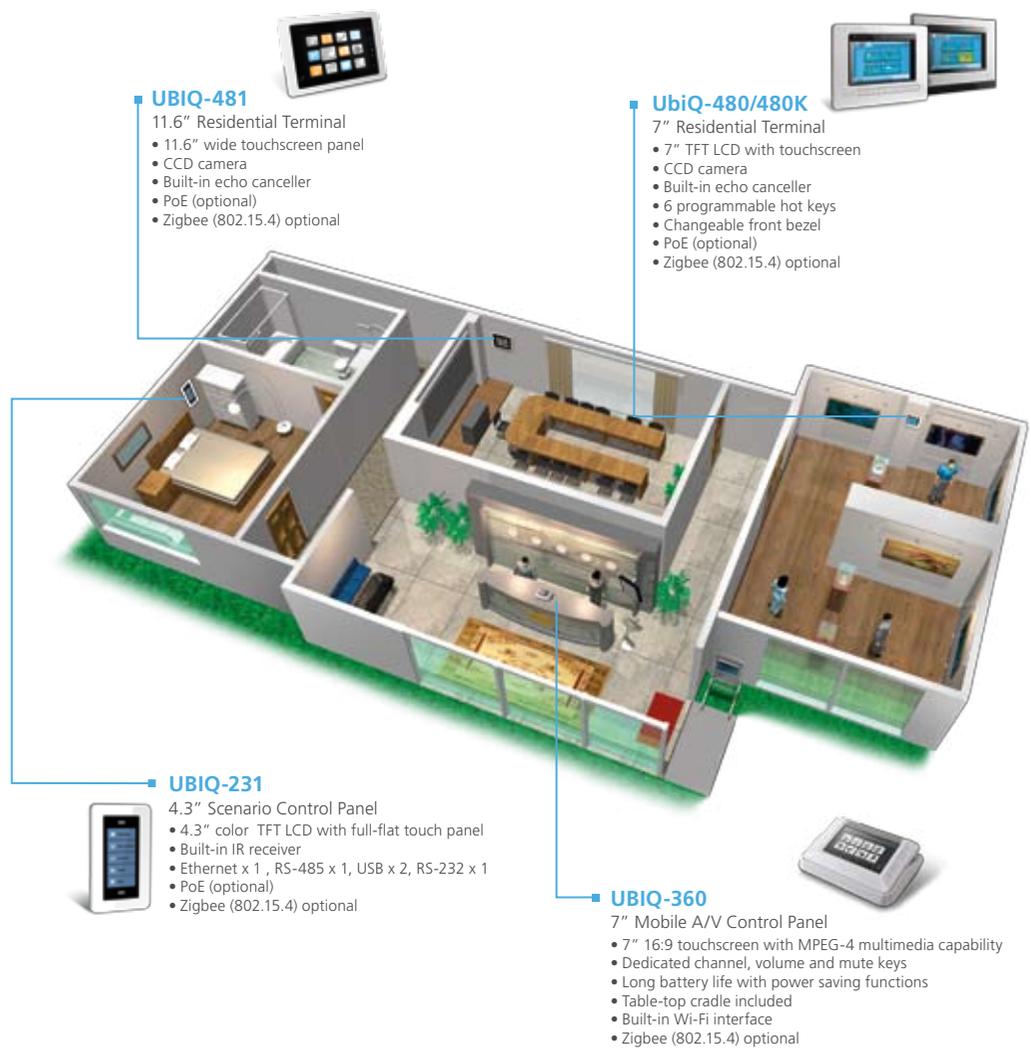
UBIQ-481
11.6" Residential Terminal
• 11.6" wide touchscreen panel
• CCD camera
• Built-in echo canceller
• PoE (optional)
• Zigbee (802.15.4) optional

UbiQ-480/480K
7" Residential Terminal
• 7" TFT LCD with touchscreen
• CCD camera
• Built-in echo canceller
• 6 programmable hot keys
• Changeable front bezel
• PoE (optional)
• Zigbee (802.15.4) optional

UBIQ-231
4.3" Scenario Control Panel
• 4.3" color TFT LCD with full-flat touch panel
• Built-in IR receiver
• Ethernet x 1 , RS-485 x 1, USB x 2, RS-232 x 1
• PoE (optional)
• Zigbee (802.15.4) optional

UBIQ-360
7" Mobile A/V Control Panel
• 7" 16:9 touchscreen with MPEG-4 multimedia capability
• Dedicated channel, volume and mute keys
• Long battery life with power saving functions
• Table-top cradle included
• Built-in Wi-Fi interface
• Zigbee (802.15.4) optional

Smart Design for
Intelligent Building

There is growing interest in offering automation technology. User control of the building, exhibition area or any other public space is as easy as one touch. UbiQ also combines security and surveillance systems for better performance. Adventech UbiQ systems are designed with the building industry players in mind: designers, manufacturers, architects and builders. Also, UbiQ series systems aim to satisfy users requirements for an intelligent scene control.

One-Touch Control
• Integrated control and scenario settings for lighting, shade, HVAC, and other home facilities through UbiQ's touchscreen terminal
• Programmable function keys for distinct application needs
• Rich I/O features and wireless support

Instant Communication
• Analog intercom, video and audio intercom, VOIP intercom, SIP intercom system
• Video intercom installed at the front door and sub-unit in master bedrooms
• Real-time communications and community messages

Entertainment Anywhere
• Replace all remote controllers with one mobile controller with IR learning
• Home theater AV facilities centralized with "one-touch" control
• Personalized settings

Building and Home Guard
• All security devices such as hidden reed switches at main entrances, gas detectors, emergency sensors, and so on can be integrated
• Real-time video images captured by surveillance cameras can be accessed throughout the community

Easy Installation and Maintenance
• All Advantech UbiQ platforms can be easily installed both in-wall or on the desktop
• Cable-free with Power over Ethernet (PoE); no need for an adaptor
• Application software can be easily upgraded remotely by FTP
• Removable faceplate to allow onsite maintenance from USB port

The Win-Win Approach for
Smart Rooms

Benefits to Residents
• Comfortable facilities with remote control
• Safety enhanced with security system
• Convenient integrated communications
• High-tech products are fun
• Increase in home resale value
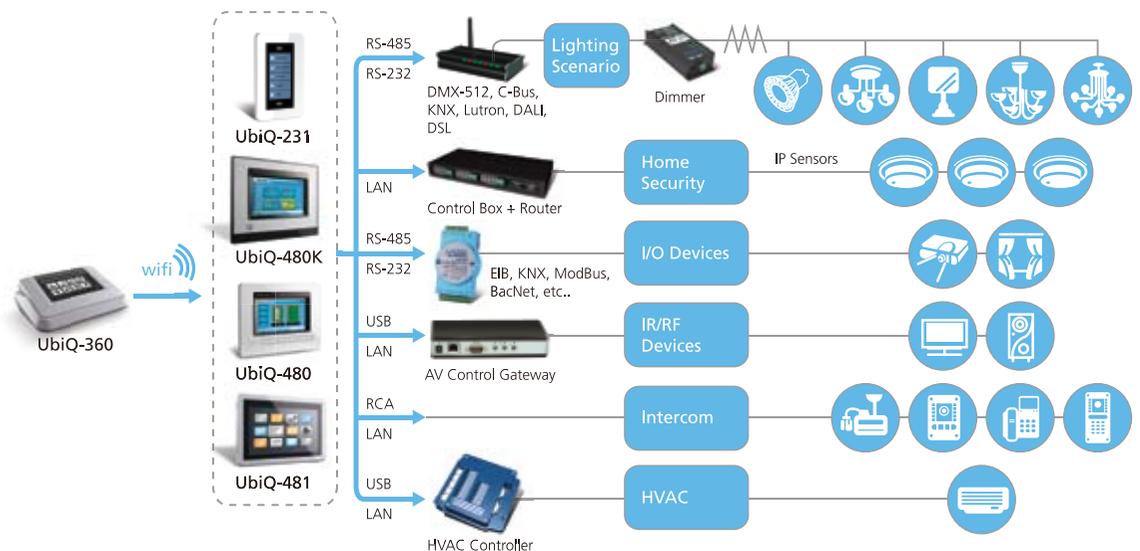
Benefits to Builders
• Enrich building features
• Create market segmentation
• Green energy opportunity
• Satisfy resident needs by integrating new technologies

Benefits to Hoteliers
• Welcome messages, facilities introduction and reservation
  for better customer services
• Travel information and increased revenue from advertising
  and commercials
• Environmental control of room lights, curtains, and
  other facilities
• Premium room service
• Billing and payment optimization

Master Home Control with Advantech Intelligent eHome Platforms

UbiQ-360 — wifi

UbiQ-231
UbiQ-480K
UbiQ-480
UbiQ-481

RS-485
RS-232 — DMX-512, C-Bus, KNX, Lutron, DALI, DSL — Lighting Scenario — Dimmer

LAN — Control Box + Router — Home Security — IP Sensors

RS-485
RS-232 — EIB, KNX, ModBus, BacNet, etc.. — I/O Devices

USB
LAN — AV Control Gateway — IR/RF Devices

RCA
LAN — Intercom

USB
LAN — HVAC Controller — HVAC
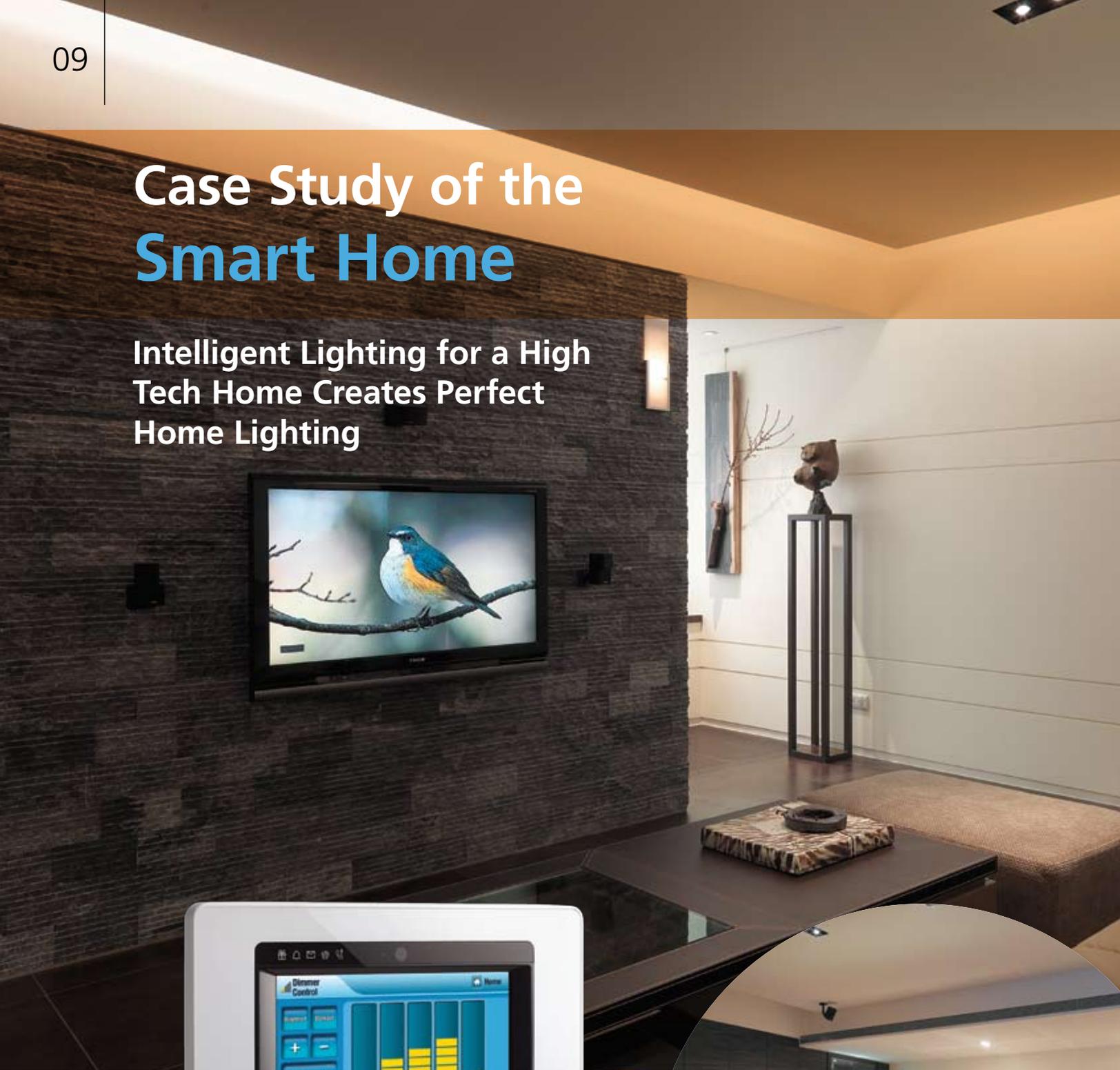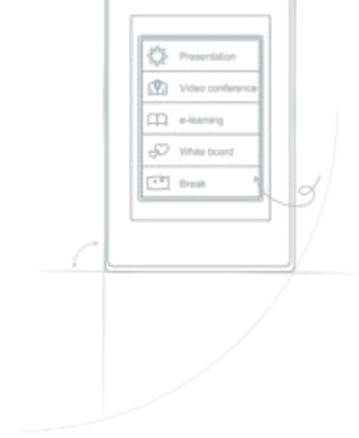
provides the development tool "SUSI API Manager" for easy development for the SI

Case Study of the
Smart Home

Intelligent Lighting for a High Tech Home Creates Perfect Home Lighting

Lighting in the living room has five scene modes: dinner party, afternoon tea, romantic, movie, and relaxation. Each lighting scenario takes about five seconds to complete. In dinner party mode, for instance, all lights are turned on to welcome guests and provide bright light as needed. For other modes, the living room, dining room and wall lights behind the television will be on or off according to the requirements of the situation. "In the past each light had to be individually turned on or off and if you wanted to control the strength of the lights you had to install a dimmer. Now through intelligent lighting controls, lighting can be controlled through a single control panel. It is very convenient for the homeowner," said Chan Yan-ji, the house designer.

03

04
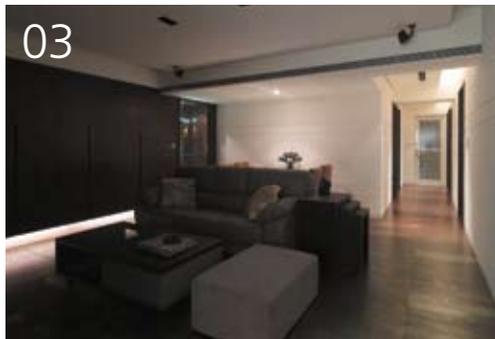
01 Dinner party mode turns on all the lights, including indirect lights, wall lights, and embedded lights causing the room to feel lighter and wider. According to the owner this gives the room an air of originality.
02 Afternoon tea mode sets the lights in the dining room at 30%. The indirect lights on the display case and closets are also adjusted for the appropriate amount of light.
03 Romantic mode is for when husband and wife are alone together. The direct lights in the dining room are set to 15% to create that special mood.
04 When audio visual equipment is in use, audio visual mode offers a small amount of direct lighting enhanced by freestanding lamps without affecting the enjoyment of the audio visual equipment.

On the whole, the space was planned with the owner's needs in mind and to conform to a stylish and practical design. This is why the materials used were chosen for quality and easy maintenance. Two examples are the floor, which consists of faux metallic tiles imported from Spain, and the television wall, which is made of a marble pattern. Beyond creating quality design through quality materials, the smooth, white walls also show the designer's attention to detail.

"Interior design is just like creating a work of art, but instead of just paying attention to the details we also need to decide how to create a comfortable and convenient living space for the homeowner," said Chan Yan-ji. After careful consultation with the owner, Chan Yan-ji chose the Advantech Intelligent Lighting Control System for the living room. This system allows the owner to adjust the lighting easily according to his requirements. Not only is it easy to use the different modes of the Intelligent Lighting Control System, but the system can also be used for computerized control of the drapery. Consequently even a small child can easily control interior lighting with just a touch of a finger.

01

Case Study of the
Smart Office

Advantech Sunny Building
The Perfect Combination of Technology and Open Space
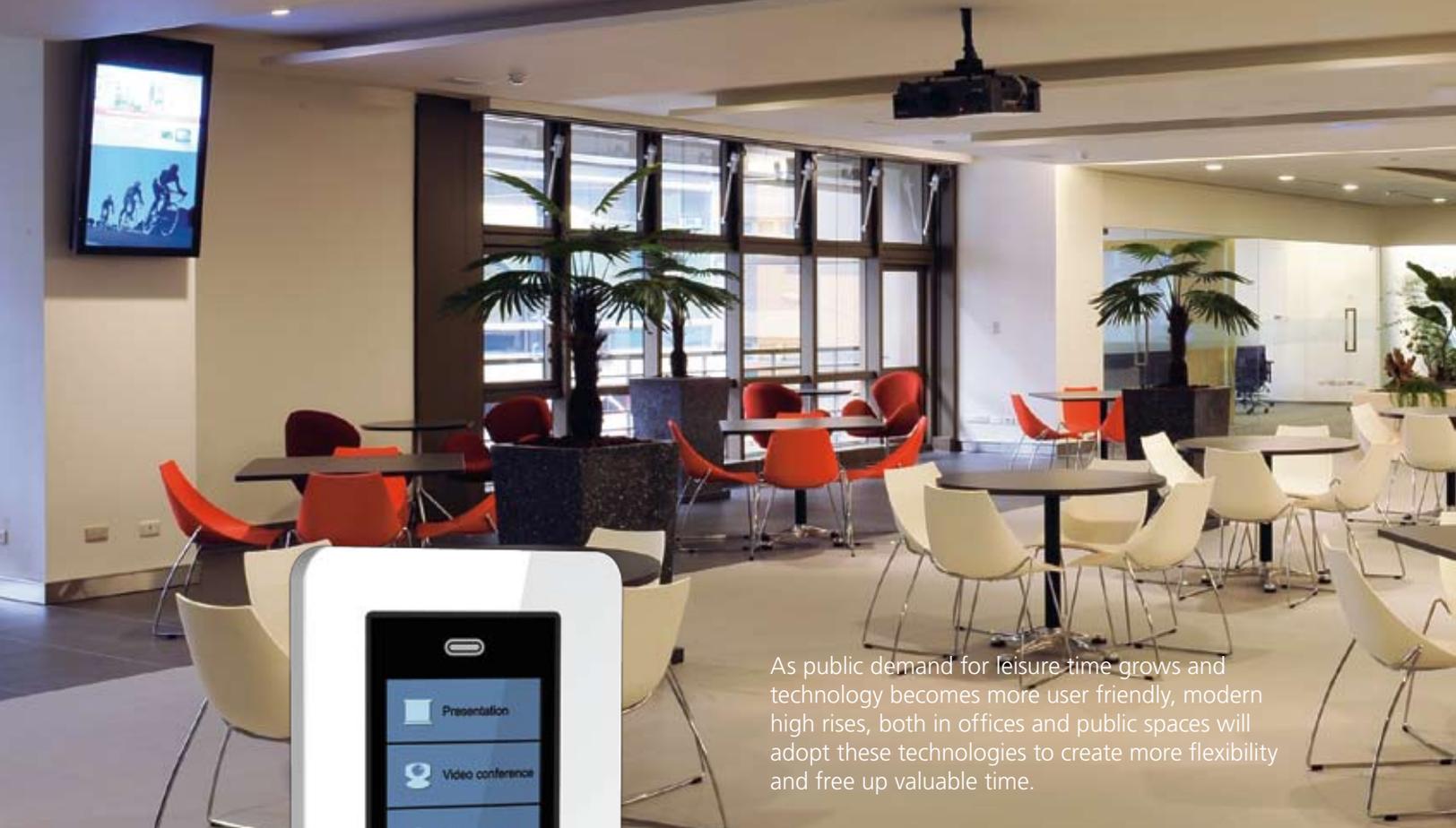
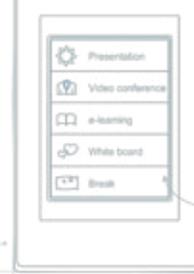As public demand for leisure time grows and technology becomes more user friendly, modern high rises, both in offices and public spaces will adopt these technologies to create more flexibility and free up valuable time.
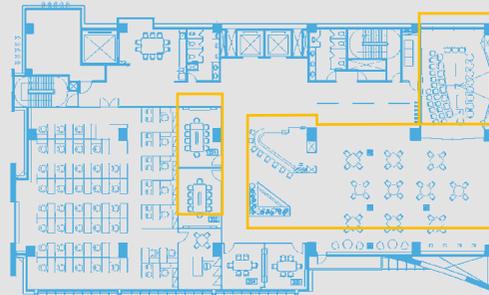
The yellow lines show where the Advantech's UBIQ Intelligent Lighting Scene Control can be used to adjust the lighting.

Intelligent and Multifunctional Control System

Conference rooms require comprehensive facilities to serve multiple functions, from simply holding meetings, to the different needs of professional presentations, to white board discussions and video conferences. In addition to different lighting for each situation, conference rooms need to be designed ergonomically for video conferences and 3D video presentations so that meetings may progress seamlessly. The lobby also needs to be designed for receiving guests, not just with basic lighting but also with special lights that make displayed art work stand out.

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01-04 VIP Meeting room
01 Presentation mode with 3D projection equipment allows your product to be presented more clearly.
02 Video conference mode optimizes placement of equipment so that everyone can communicate without obstacles.
03 Whiteboard mode focuses attention on the whiteboard.
04 Discussion mode allows for more light to facilitate discussions.

05-06 Public Spaces
05 If a projector is needed for a product launch or other activity, light can be controlled.
06 When there are no meetings or presentations, lights can be set to offer basic lighting and conserve energy.

Lighting, Video and Landscape: A Perfect Combination of Elements

Public spaces are designed for every conceivable use to serve the needs of people. Hardware and software design should take people's habits into account, and blend seamlessly into the space. Technical features, and situational lighting are the most important aspects of this design. When lighting modes, video equipment, and landscape are properly combined, the result achieves perfection in meeting the needs of the user. In the Advantech Sunny Building, the use of Advantech's Intelligent Lighting Scene Control allows public space to be used in many different situations. In addition to being used as a comfortable setting for talks between employees and clients or as an extra conference room, the area can also be used for employee break times and other activities. Since employees gather here, the design is focused on providing wide open spaces and plentiful light. All furniture is designed to be moveable and useful for speeches, birthday parties or product launches. In addition, conference rooms are designed with transparent walls to allow a feeling of spaciousness, while still maintaining privacy for meetings. The use of landscape design tactics to separate different areas is also very important.

Designed to Meet the Requirements of Users

Situational lighting is created to meet the needs of the user. Lights can be set to different modes such as energy saving, lecture, or new product launch. The designer primarily employed indirect lights and spots, illuminating tables with direct lights while calculating the settings for comfort to give the light a friendly presence. The brightness of each line of lights can be adjusted as needed to fit the desired mood.

Product
Information

UBIQ-481

11.6" Residential Terminal /
Scenario Control Panel

UbiQ-481 comes with a 11.6" flat touch panel design scenario control panel, with rich I/O (USB, dual LAN, RS-232/485, Video-in and Line-in/out), an IR receiver, echo cancellation, and more optional function. It runs Windows CE or Linux.

USB	Speaker	IR receiver	Mic	LED indicators	VESA
Camera	Funtion key	WiFi	zigbee	Intercom	

⭐ Optional Function

UBIQ-360

7" Mobile A/V Control Panel

UbiQ-360 is a portable system with a 7" LCD touchscreen display, Wi-Fi included, with a portable, SDHC slot. Optional tabletop cradle & Zigbee (802.15.4) function. It runs Windows CE or Linux.

USB	Speaker	IR receiver	Mic	LED indicators	Funtion key
WiFi	zigbee	Cradle			

⭐ Optional Function

UBIQ-480 / 480K

7"Residential Terminal / Scenario Control Panel

UbIQ-480/480K comes with 7" LCD touchscreen display, with multi-choice frame, rich I/O (USB, dual LAN, RS-232/485, Video-in and Line-in/out), an IR receiver, echo cancellation, and more optional functions. It runs Windows CE or Linux.

USB	Speaker	IR receiver	Mic	LED indicators	VESA
Camera	Changeable Faceplate	Funtion key	WiFi	PoE	Intercom

⭐ Optional Function
⭐ UBIQ-480 Only

UBIQ-231

4.3" Scenario Control Panel

UbiQ-231 comes with a 4.3" flat touch panel design scenario control panel, Built-in IR receiver, RS-485, LAN and USB ports for versatile connectivity, and more optional functions. It runs Windows CE or Linux.

USB	Speaker	IR receiver	LED indicators	Funtion key	Changeable Faceplate
WiFi	zigbee	POE (TBD)			

⭐ Optional Function

Model Name		UbiQ-481	UbiQ-480	UbiQ-480K	UbiQ-360	UbiQ-231
Processor		TI OMAP 3530 600 MHz	Freescale i.MX31 523 MHz	Freescale i.MX31 523 MHz	Freescale i.MX31 523 MHz	TI OMAP 3503 600 MHz
Memory	Size	256 MB/512MB (Optional)	256 MB	256 MB	256 MB	256MB
	Module Type	Mobile DDR	Mobile DDR	Mobile DDR	Mobile DDR	Mobile DDR
OS Support		Windows CE 6.0	Windows CE 5.0	Windows CE 5.0	Windows CE 5.0	Windows CE 6.0
Display	Size/Type	11.6" TFT color LCD	7" TFT color LCD	7" TFT color LCD	7" TFT color LCD	4.3"TFT color LCD
	Max. Resolution	1366 x 768	800 x 480	800 x 480	800 x 480	480×272
	Brightness (cd/m2)	200 cd/m2	320 cd/m2	320 cd/m2	280 cd/m2	500cd/m2
	Viewing Angle	160/160	160/160	160/160	130/110	130/105
	Brightness Control	PWM	PWM	PWM	PWM	PWM
VGA	Chipset	CPU built-in	CPU built-in	CPU built-in	CPU built-in	CPU built-in
Storage / Type		iNAND 2 GB flash on board (eMMC) SD Slot (optional, up to 32 GB)	NAND 256 MB flash on board SD Slot (optional, up to 32 GB)	NAND 256 MB flash on board SD Slot (optional, up to 32 GB)	NAND 256 MB flash on board SD Slot (optional, up to 32 GB SDHC)	iNAND 2GB flash on board SD Slot (optional, up to 32 GB)
I/O Port	Rear I/O	USB 2.0 Host x2/Client x1, Line-in/out , RS-232 / RS-485 x1, Video-in connector, IR Receiver, 4 TTL level DI, 4 TTL level DO, USB 2.0 Client x1 (Embedded for connector type)	RS-232 x1, RS-485 x1, Video-in connector x1, USB2.0 Host x1, Line-in/out x1, 1 x 4 TTL level DI, 4 TTL level DO	RS-232 x1, RS-485 x1, Video-in connector x1, USB2.0 Host x1, Line-in/out x1, 1 x 4 TTL level DI, 4 TTL level DO	USB 2.0 Port x1 (Supports Host & Client)	RS-485 x1
	Front I/O	miniUSB 2.0 Host port x1	USB2.0 Host x1 (Below Cover)	USB2.0 Host x1 (Below Cover)	-	USB 2.0 Host x1/Client x1 (Below Cover)
Mechanical	Mounting Type	Wall Mounting/VESA Standard	Wall Mounting/VESA Standard	Wall Mounting/VESA Standard	Portable/Cradle	Wall Mounting
	Dimensions (W x H x D)	324.05 x 214.05. x 37.8 mm	261.26 x 199.36 x 43.5 mm	261.26 x 199.36 x 43.5 mm	230.0 x 148.5 x 30.5 mm	106.7 x 174.7 x 34.6 mm
Camera		2M Pixels CMOS camera	1.3M Pixels CMOS camera	-	-	-
Hot Key		Power x1/ Emergency Hot Key x1	Six programmable function keys	-	Five programmable function keys	-
LED		4	6	6	3	2
RF wireless		IR receiver x 1	IR receiver x 1	IR receiver x 1	IR sender x 1, IR receiver x 1	IR receiver x 1
Network (LAN)		10/100 Mbps Ethernet (RJ-45) x 2	10/100 Mbps Ethernet (RJ-45) x 2	10/100 Mbps Ethernet (RJ-45) x 2	-	10/100 Mbps Ethernet (RJ-45) x 1
Audio	Chipset	Standard I2S audio codec with stepping amplifier control	WOLFSON_WM8750	WOLFSON_WM8750	WOLFSON_WM8750	-
	SPK / MIC	Speaker x2 output / Microphone x1 input	Speaker x1 output / Microphone x1 input	Speaker x1 output / Microphone x1 input	Speaker x1 output / Microphone x1 input	Speaker x1 output
Power	Output Rating	12~24 V_{DC}	12~24 V_{DC}	12~24 V_{DC}	19 V_{DC}	12~24 V_{DC}
	Input Voltage	100 ~ 240 VAC	100 ~ 240 VAC	100 ~ 240 VAC	100 ~ 240 VAC	100 ~ 240 VAC
	Battery	-	-	-	Battery hard pack (3S1P, 3.7V, 2100 mAh)	-
Touchscreen	Technology	Resistive(controller)	Resistive(controller)	Resistive(controller)	Resistive(controller)	Resistive(controller)
	Touch Life Cycle	10 million touches	10 million touches	10 million touches	10 million touches	10 million touches
Temperature	Operation	0 ~ 40° C	0 ~ 40° C	0 ~ 40° C	0 ~ 40° C	0 ~ 40° C
	Storage	-20° C ~ 60° C	-20° C ~ 60° C	-20° C ~ 60° C	-20° C ~ 60° C	-20° C ~ 60° C
Certifications		CE/FCC Class B, CCC, BSMI, UL	CE/FCC Class B, CCC, BSMI, UL	CE/FCC Class B, CCC, BSMI, UL	CE/FCC Class B, CCC, BSMI, UL	CE/FCC Class B, CCC, BSMI, UL
Options	WiFi	802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g	-
	PoE	-	-	Yes	-	TBD
	Cradle	-	-	-	Yes	-
	ZigBee	Yes	TBD	-	-	TBD
Wall Box		274.6 x 178.6 x 80 mm	251.2 x 183.62 x 120 mm	251.2 x 183.62 x 120 mm	-	101.8 x 133.22 x 52 mm

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