Smart IoT Mobile Application Software Solution

Smart IoT Mobile Application Software Solution
Learn More >

AP-ASH100	Android based IoT App S/W
AP-ISH100	iOS based IoT App S/W

Chrome Web Browser based IoT App S/W

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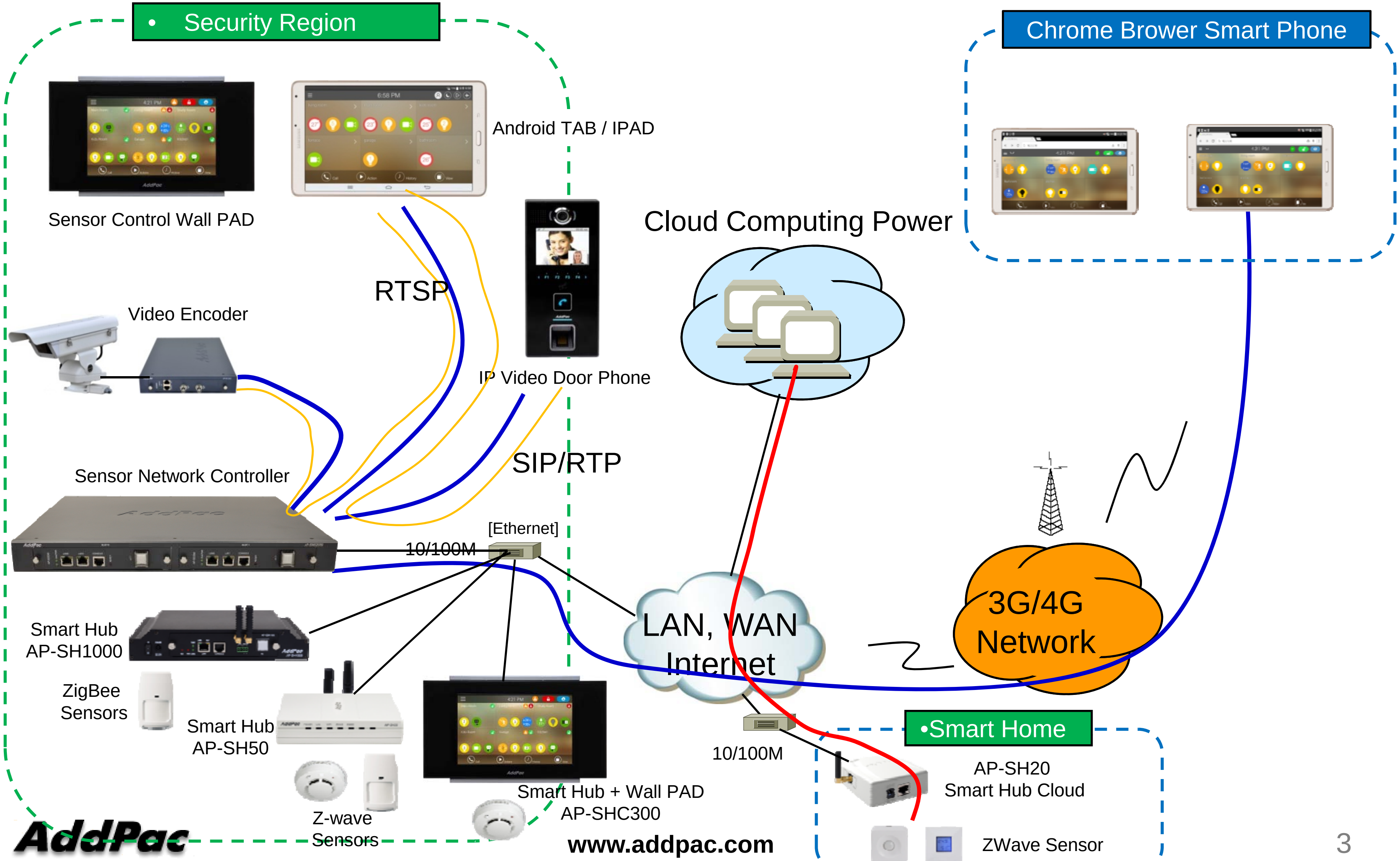
- Mobile Application Software for IoT
  - AP-ASH100 Android based IoT Application Software
  - AP-ISH100 Apple IOS based IoT Application Software
  - Chrome Browser based IoT Application Software

Network Diagram


• Security Region
Sensor Control Wall PAD
Android TAB / IPAD
RTSP
Video Encoder
IP Video Door Phone
SIP/RTP
Sensor Network Controller
[Ethernet]
10/100M
Smart Hub
AP-SH1000
ZigBee
Sensors
Smart Hub
AP-SH50
Z-wave
Sensors
Smart Hub + Wall PAD
AP-SHC300
Chrome Brower Smart Phone
Cloud Computing Power
LAN, WAN
Internet
3G/4G
Network
10/100M
•Smart Home
AP-SH20
Smart Hub Cloud
ZWave Sensor

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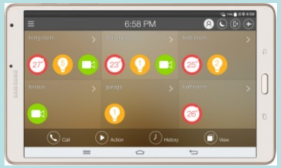
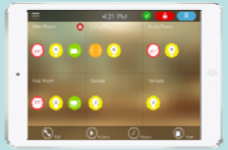
IoT Mobile Application Software Comparison Table

Model Spec.	Chrome Browser	AP-ASH100 	AP-ISH100 
OS	OS Independent Chrome Browser	Android	Apple IOS
Smart Hubs (Zwave, Zigbee)	Support	Support	Support
Video Phone (SIP)	N/A	Support (H.264, etc)	Support (H.264, etc)
IP Camera Monitoring (RTSP)	N/A	Support	Support

AP-ASH100
Android IoT Mobile Appl.

AP-ASH100 Overview

- It supports receiving a video call from video door phone by visitor.
- It supports making a video call to video door phone to see door side.
- It supports bidirectional video call from security guard video phone.
- It supports smart hub devices for sensor device handling.
- It supports IP camera view mode using RTSP protocol
- It supports standard based SIP signaling protocol.
- It supports below voice and video codecs

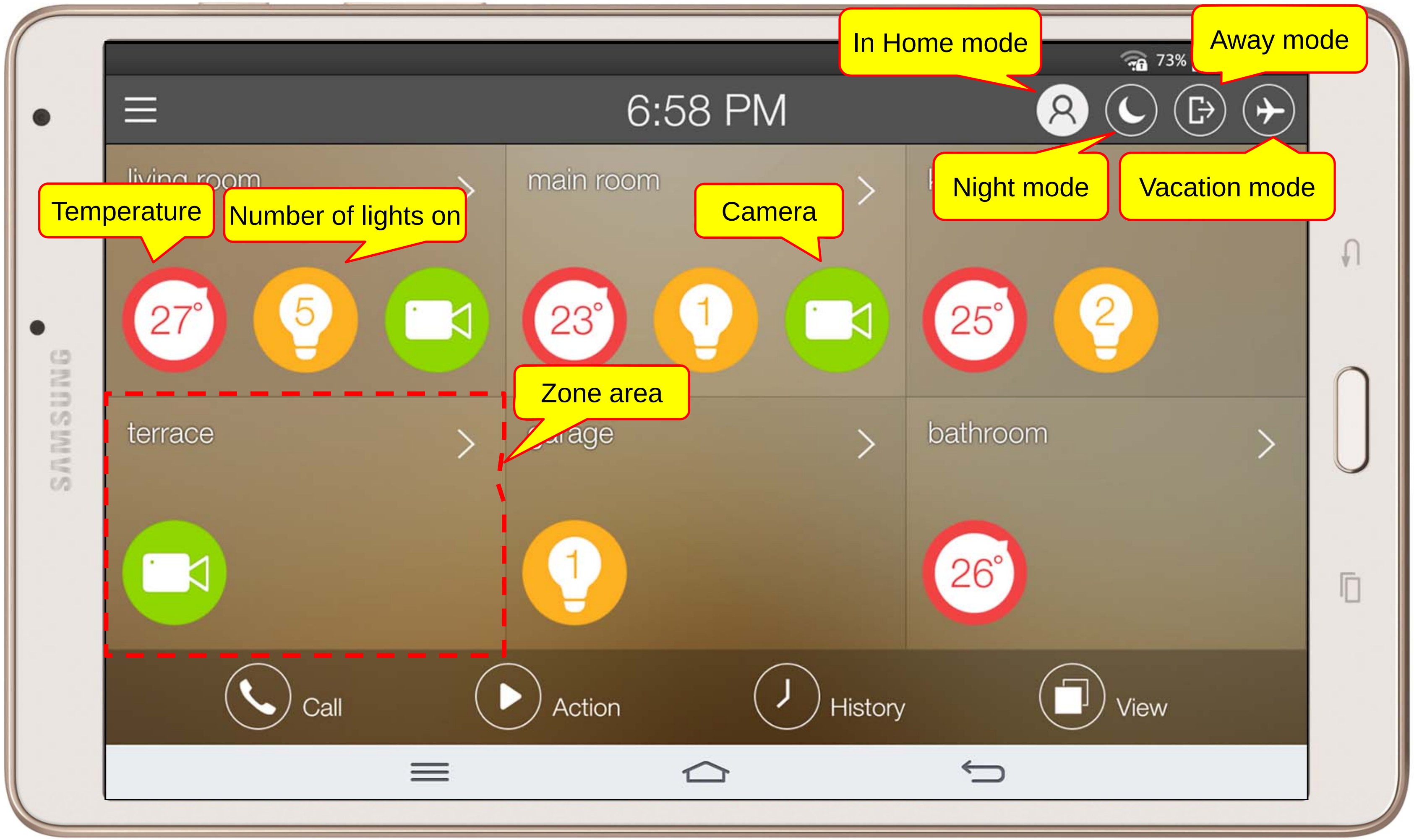
  - Voice Codec : G.711ulaw/alaw, G.726

  - Video Codec : H.264, H.263. MPEG4

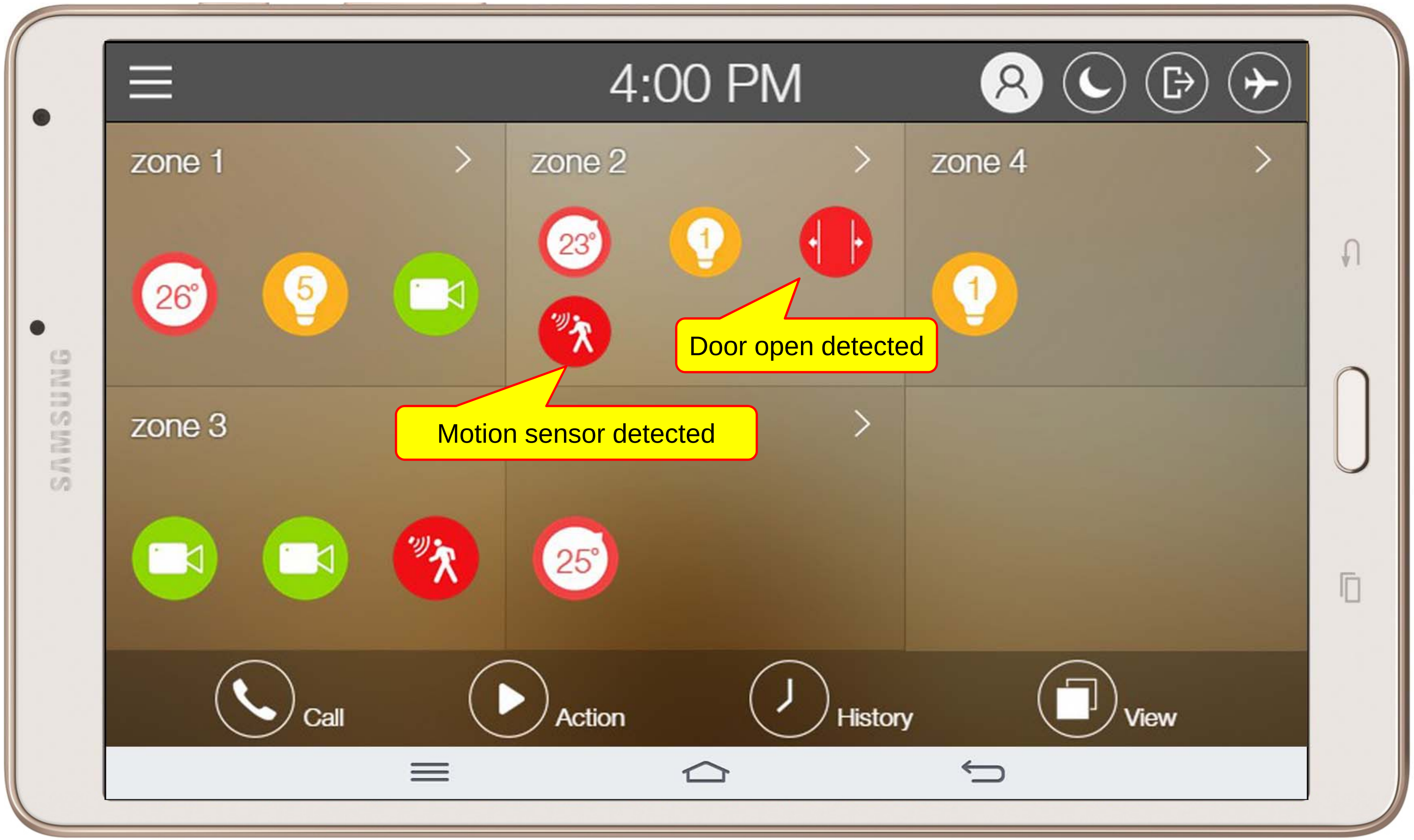
UI examples Lists

- Main View (Zone Summary)
- Armed Mode (Away, Stay, Night)
- Short View
- Zone View
- Zone Setting and Configuration
- IP Camera View Mode (Home, Outside Home)
- Call View (Favorite Call, Recent Call, Phone Book, etc)
- Video Call View
- Sensor Control View (Ex: Light Control, Thermostat, etc)
- Sensor Control View (Action, Mode, Alert, etc)

Main View (Zone Summary)


In Home mode
Away mode
73%
6:58 PM
Night mode
Vacation mode
living room
main room
Temperature
Number of lights on
Camera
27°
5
23°
1
25°
2
Zone area
terrace
garage
bathroom
1
26°
Call
Action
History
View
SAMSUNG

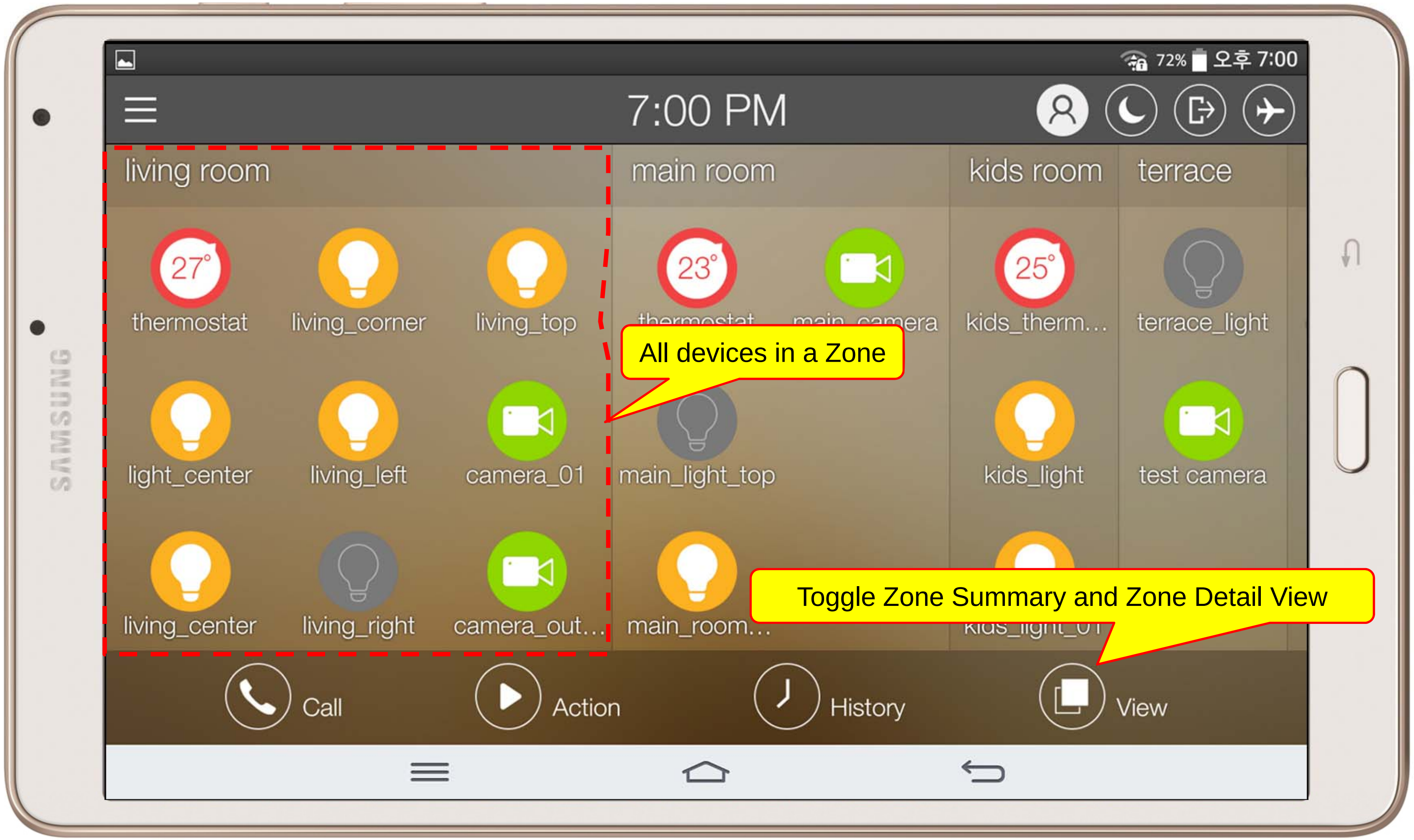
Main View (Cont.)


4:00 PM
zone 1
26°
5
zone 2
23°
1
zone 4
1
zone 3
25°
Call
Action
History
View
SAMSUNG

Door open detected

Motion sensor detected

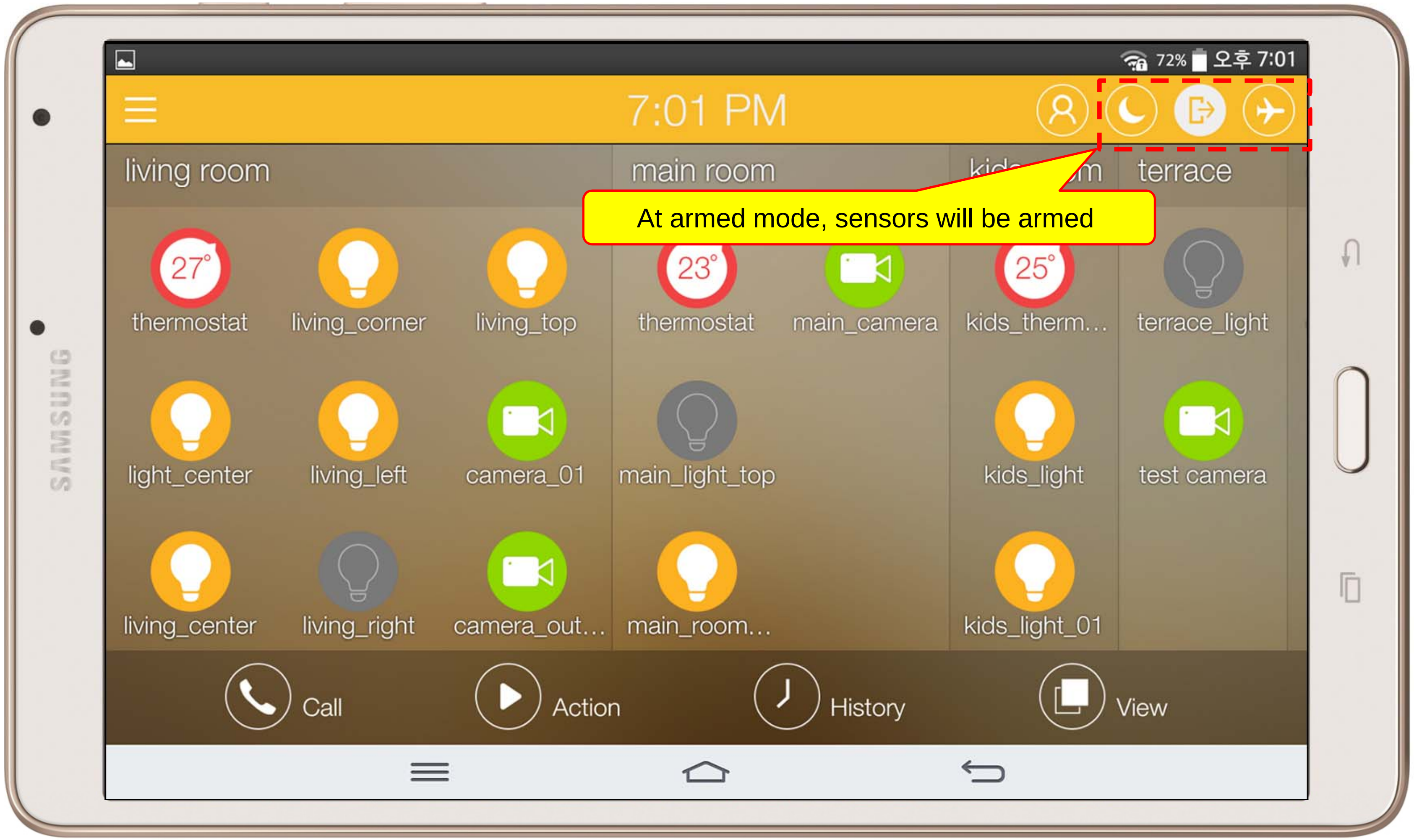
Main View (Zone Detail)


72% 오후 7:00
7:00 PM
living room
main room
kids room
terrace
27°
thermostat
living_corner
living_top
light_center
living_left
camera_01
living_center
living_right
camera_out…
23°
thermostat
main_camera
main_light_top
main_room…
25°
kids_therm…
kids_light
kids_light_01
terrace_light
test camera
Call
Action
History
View
SAMSUNG

All devices in a Zone

Toggle Zone Summary and Zone Detail View

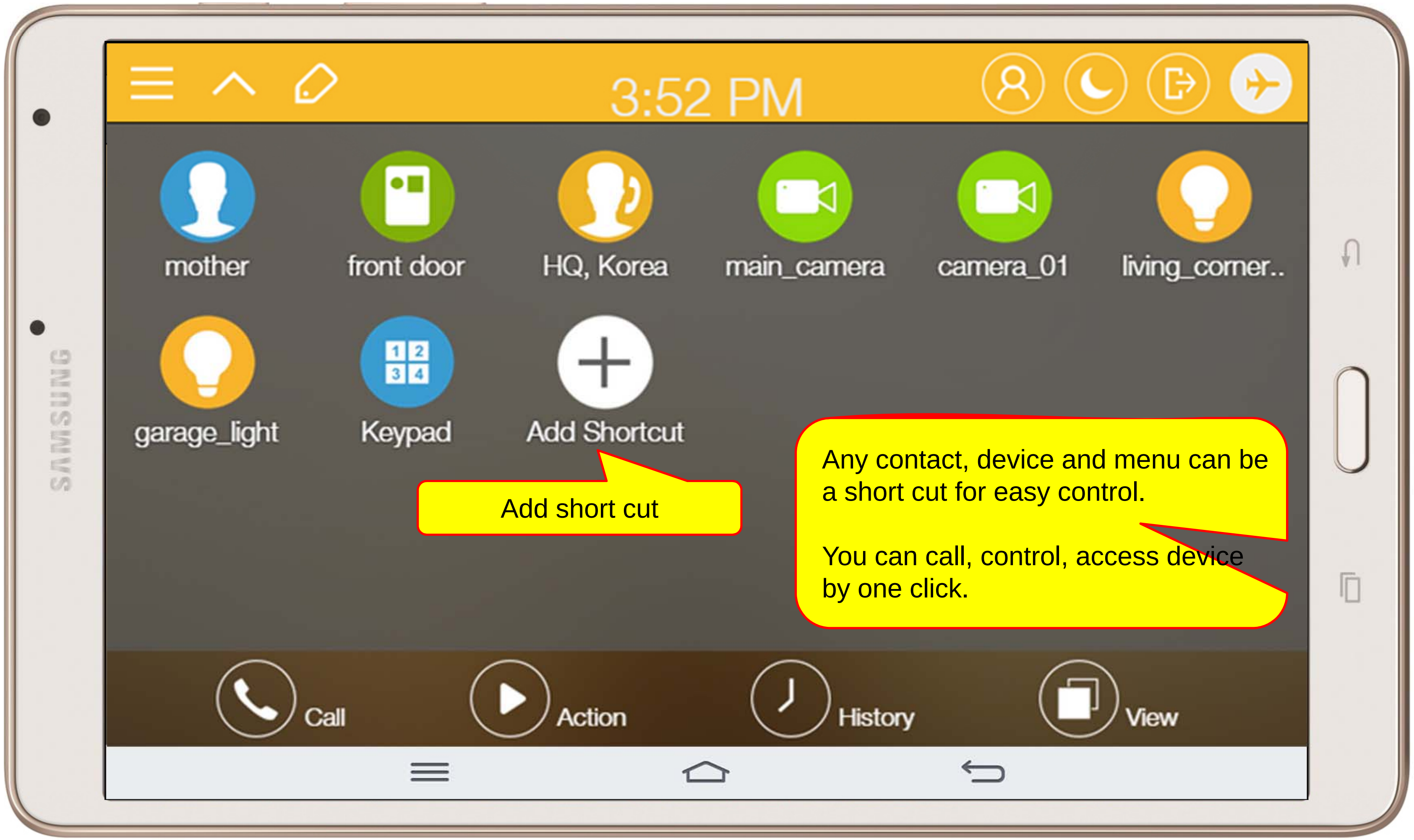
Armed Mode



At armed mode, sensors will be armed

72% 오후 7:01
7:01 PM
living room
main room
kids room
terrace
27°
thermostat
living_corner
living_top
23°
thermostat
main_camera
25°
kids_therm…
terrace_light
light_center
living_left
camera_01
main_light_top
kids_light
test camera
living_center
living_right
camera_out…
main_room…
kids_light_01
Call
Action
History
View
SAMSUNG

Short Cut View

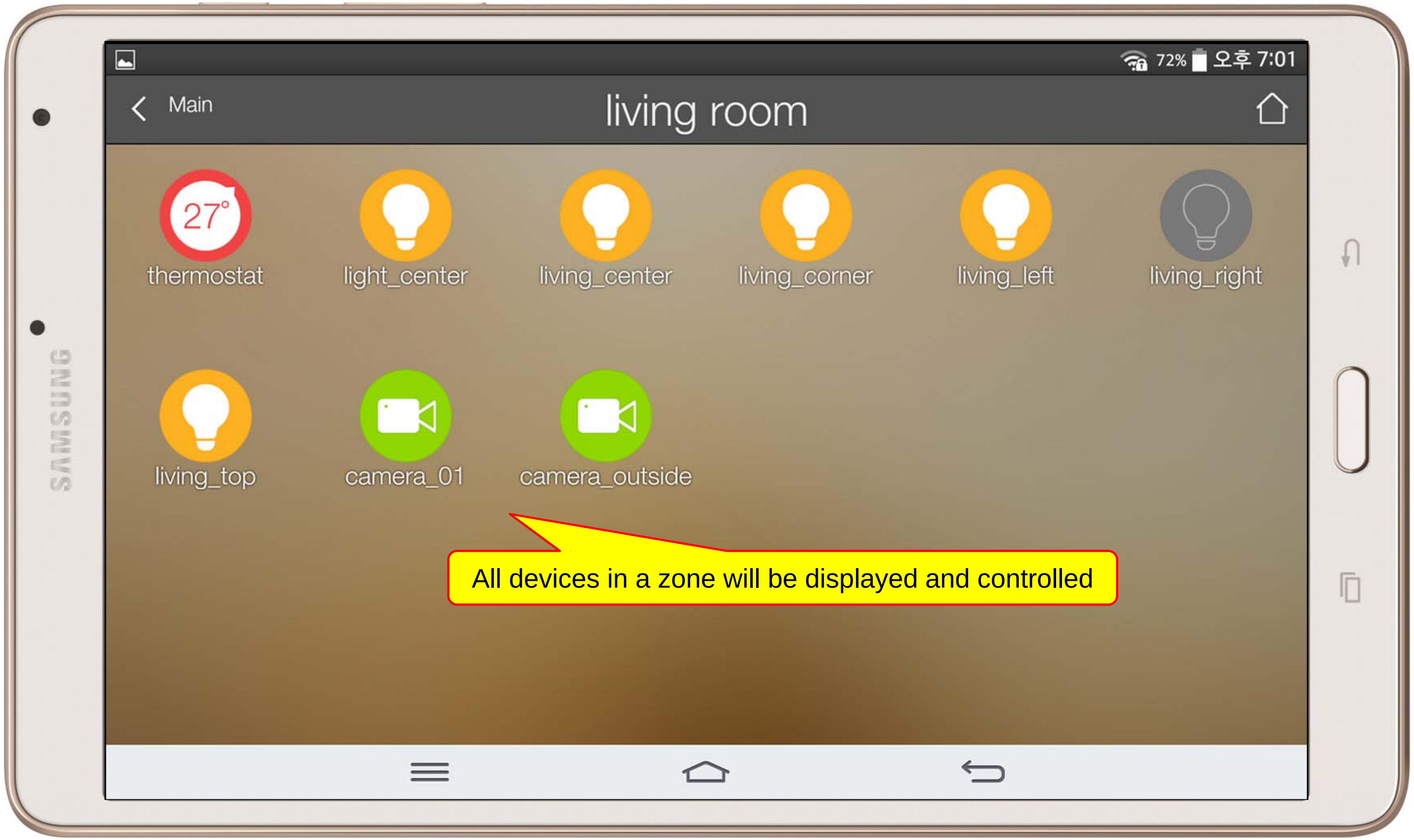

3:52 PM
mother
front door
HQ, Korea
main_camera
camera_01
living_corner..
garage_light
Keypad
Add Shortcut
Call
Action
History
View
SAMSUNG

Add short cut

Any contact, device and menu can be a short cut for easy control.

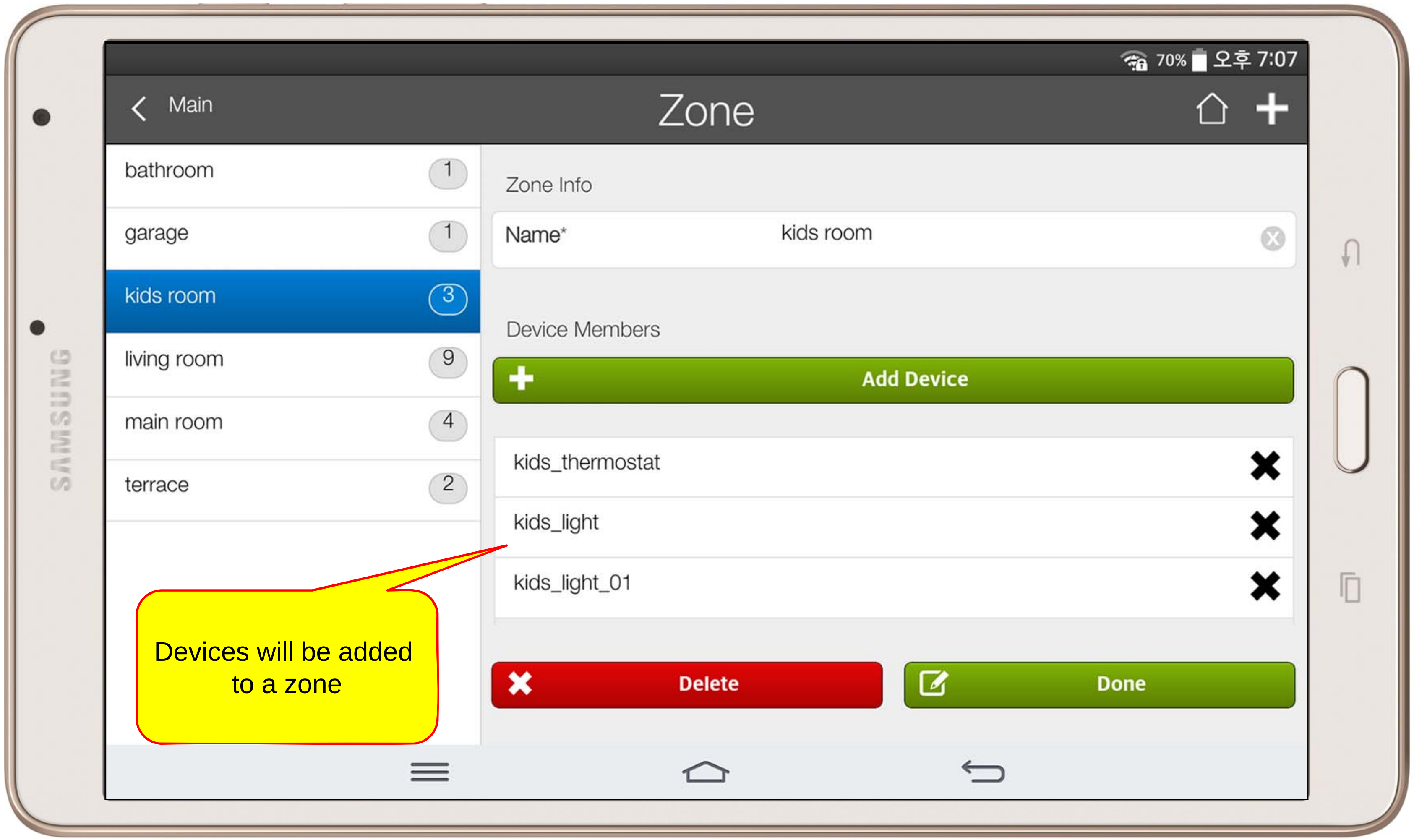
You can call, control, access device by one click.

Zone View


72% 오후 7:01
Main
living room
27°
thermostat
light_center
living_center
living_corner
living_left
living_right
living_top
camera_01
camera_outside
SAMSUNG

All devices in a zone will be displayed and controlled

Zone Setting


70% 오후 7:07
Main
Zone

bathroom	1
garage	1
kids room	3
living room	9
main room	4
terrace	2

Zone Info

Name* kids room

Device Members

Add Device

kids_thermostat

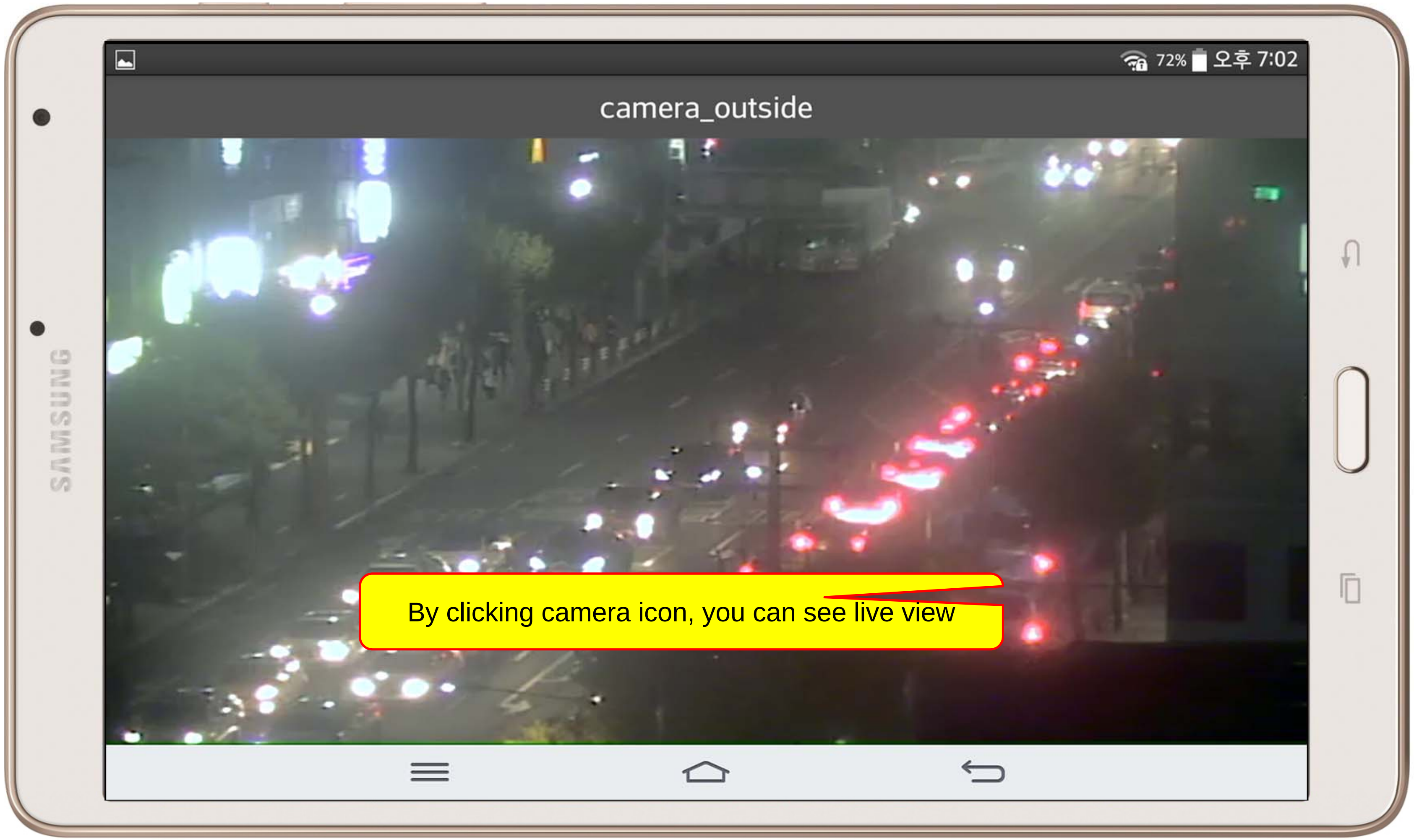
kids_light

kids_light_01

Delete
Done

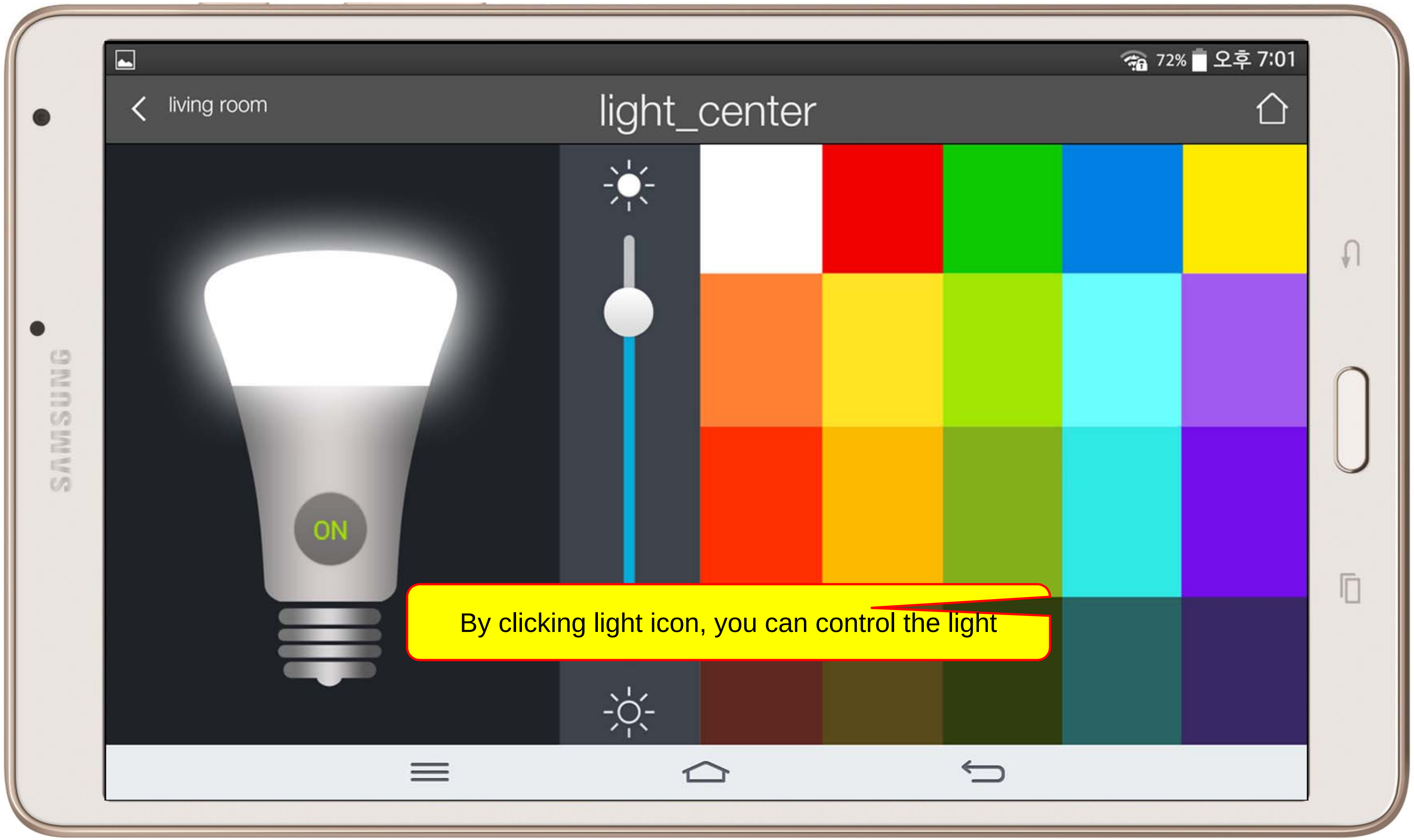
Devices will be added to a zone

Camera Live View


72% 오후 7:02
camera_outside
SAMSUNG

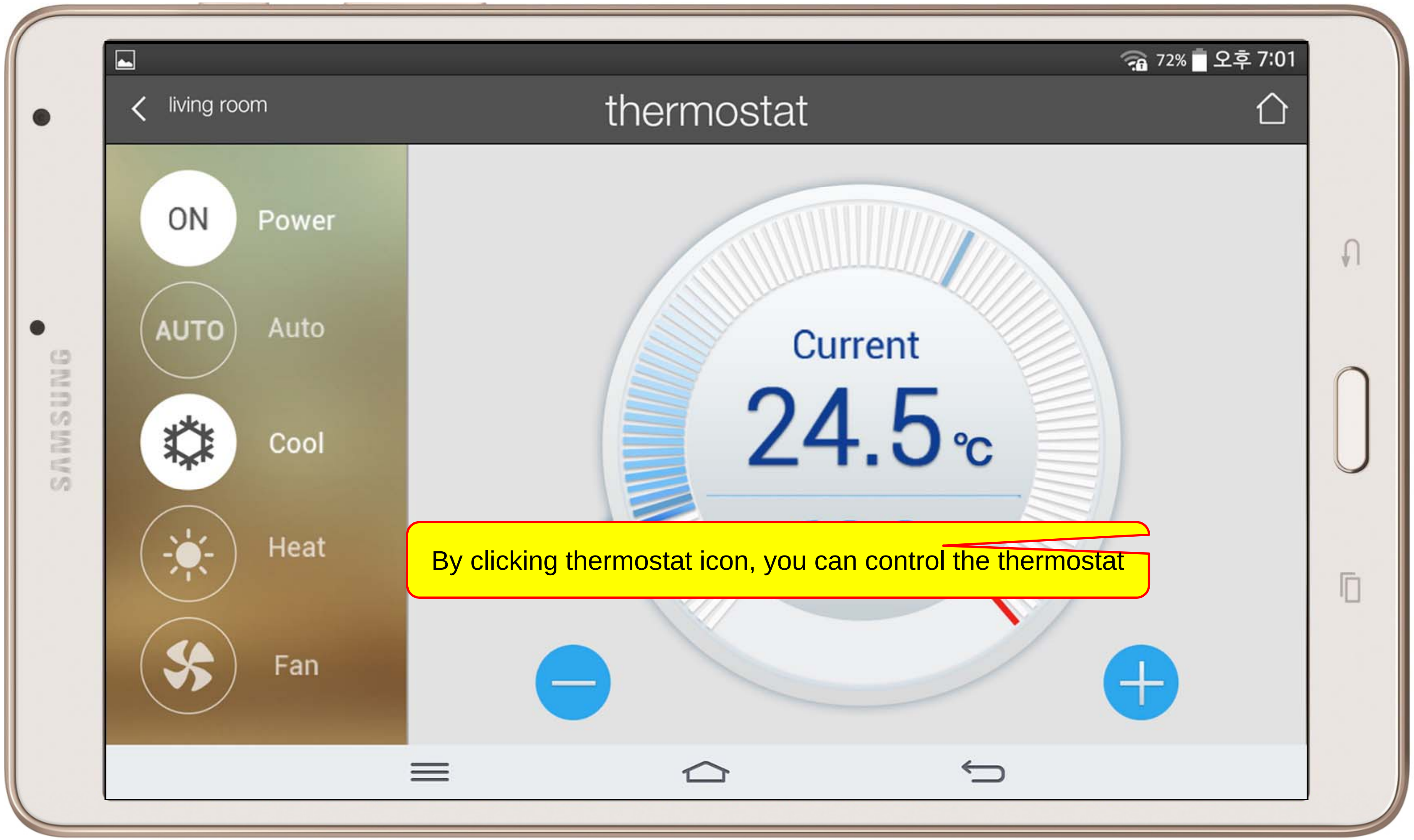
By clicking camera icon, you can see live view

Light Control


72% 오후 7:01
living room
light_center
ON

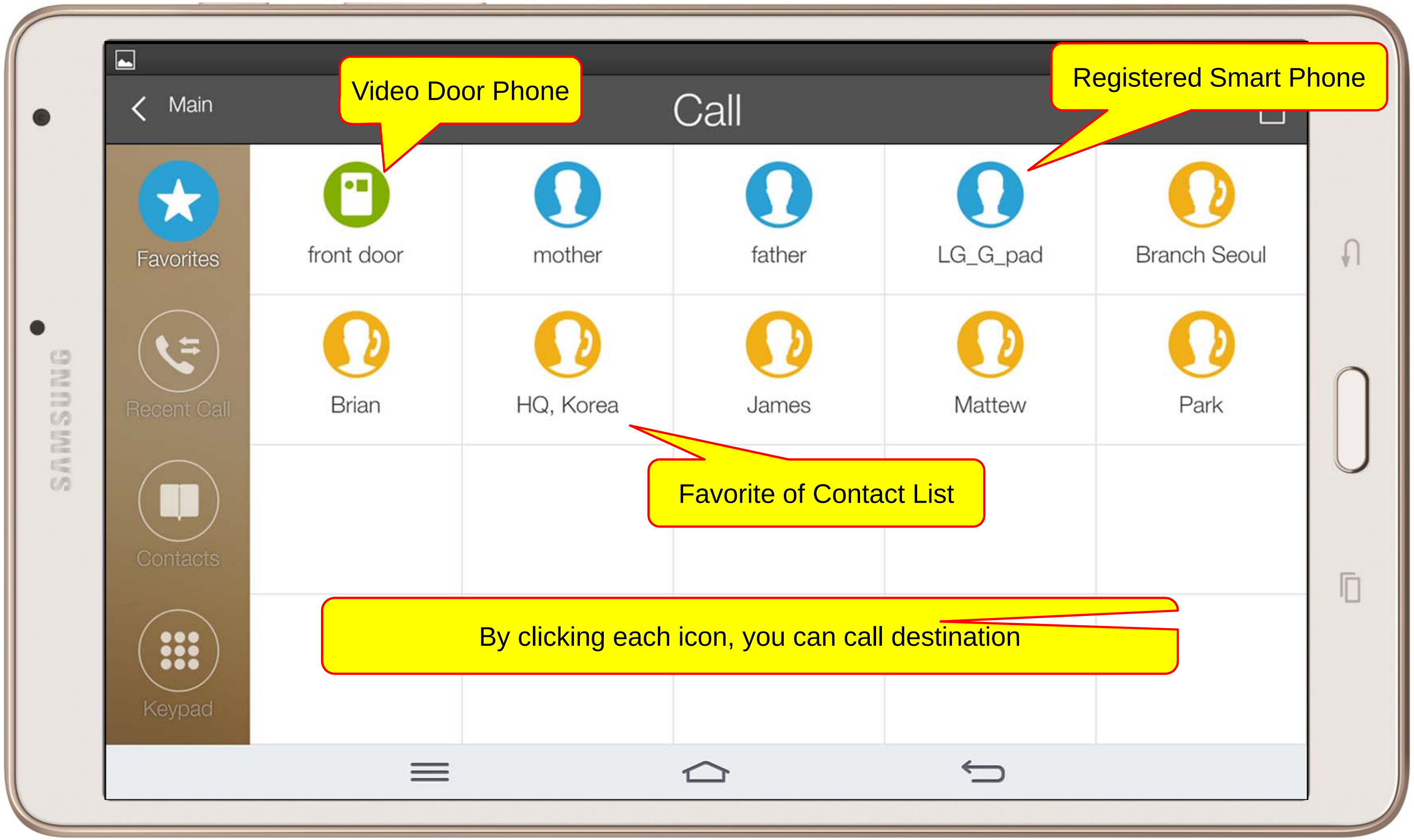
By clicking light icon, you can control the light

Thermostat


72% 오후 7:01
living room
thermostat
ON
Power
AUTO
Auto
Cool
Heat
Fan
Current
24.5℃
SAMSUNG

By clicking thermostat icon, you can control the thermostat

Favorite Call View


Main
Call
Favorites
Recent Call
Contacts
Keypad
front door
mother
father
LG_G_pad
Branch Seoul
Brian
HQ, Korea
James
Mattew
Park

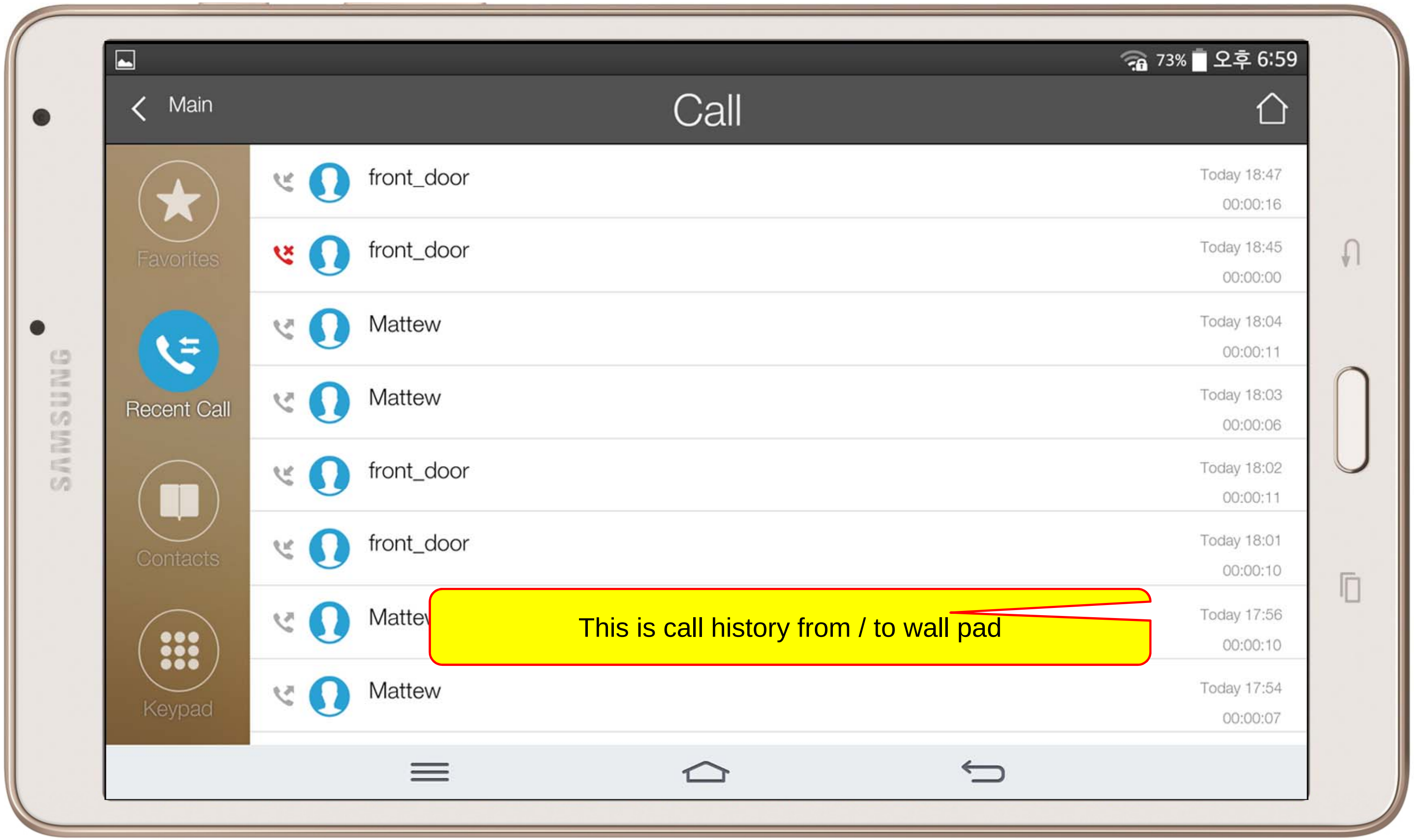
Video Door Phone

Registered Smart Phone

Favorite of Contact List

By clicking each icon, you can call destination

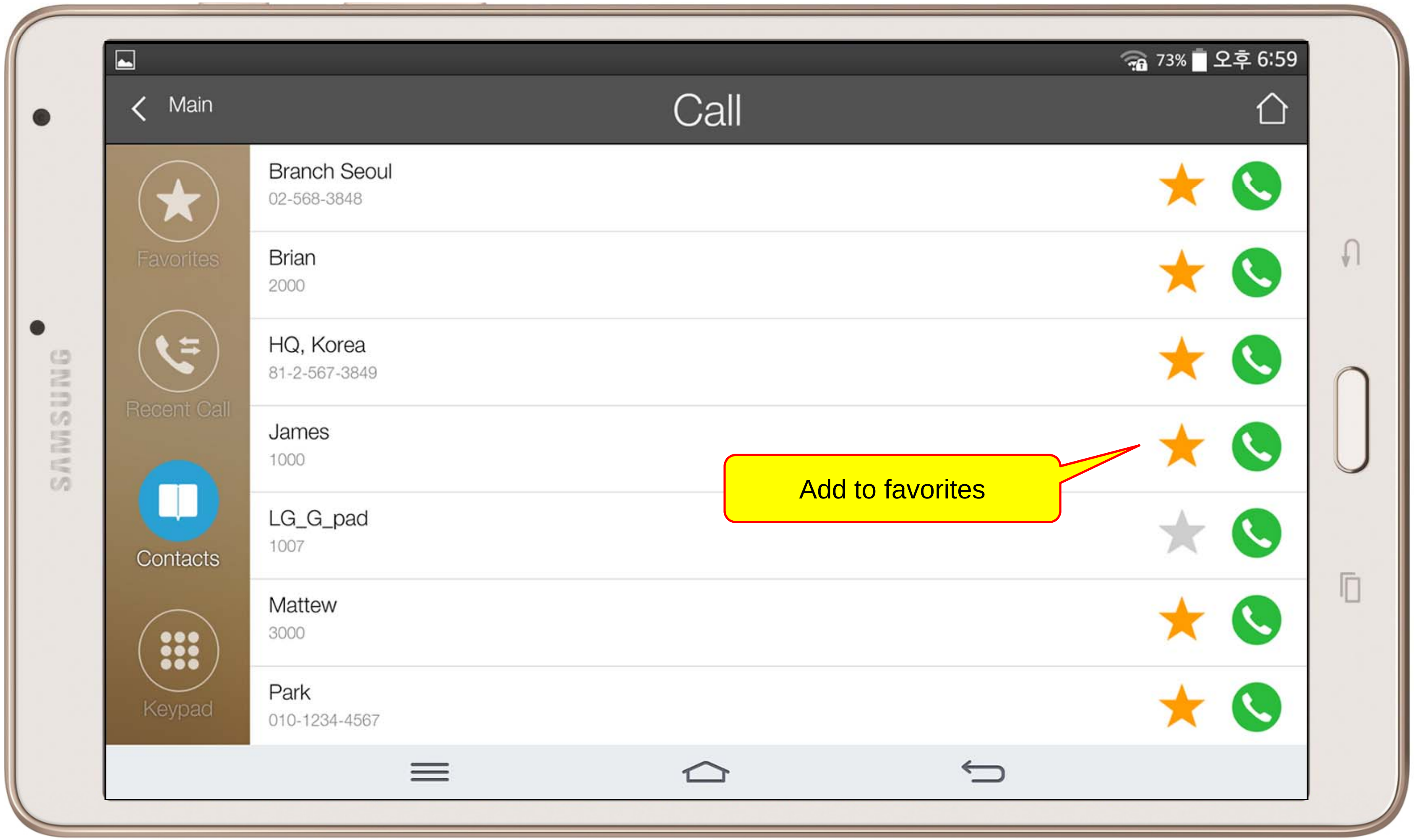
Recent Call View


73% 오후 6:59
Main
Call
Favorites
Recent Call
Contacts
Keypad

front_door Today 18:47 00:00:16
front_door Today 18:45 00:00:00
Mattew Today 18:04 00:00:11
Mattew Today 18:03 00:00:06
front_door Today 18:02 00:00:11
front_door Today 18:01 00:00:10
Mattew Today 17:56 00:00:10
Mattew Today 17:54 00:00:07

This is call history from / to wall pad

Contact View

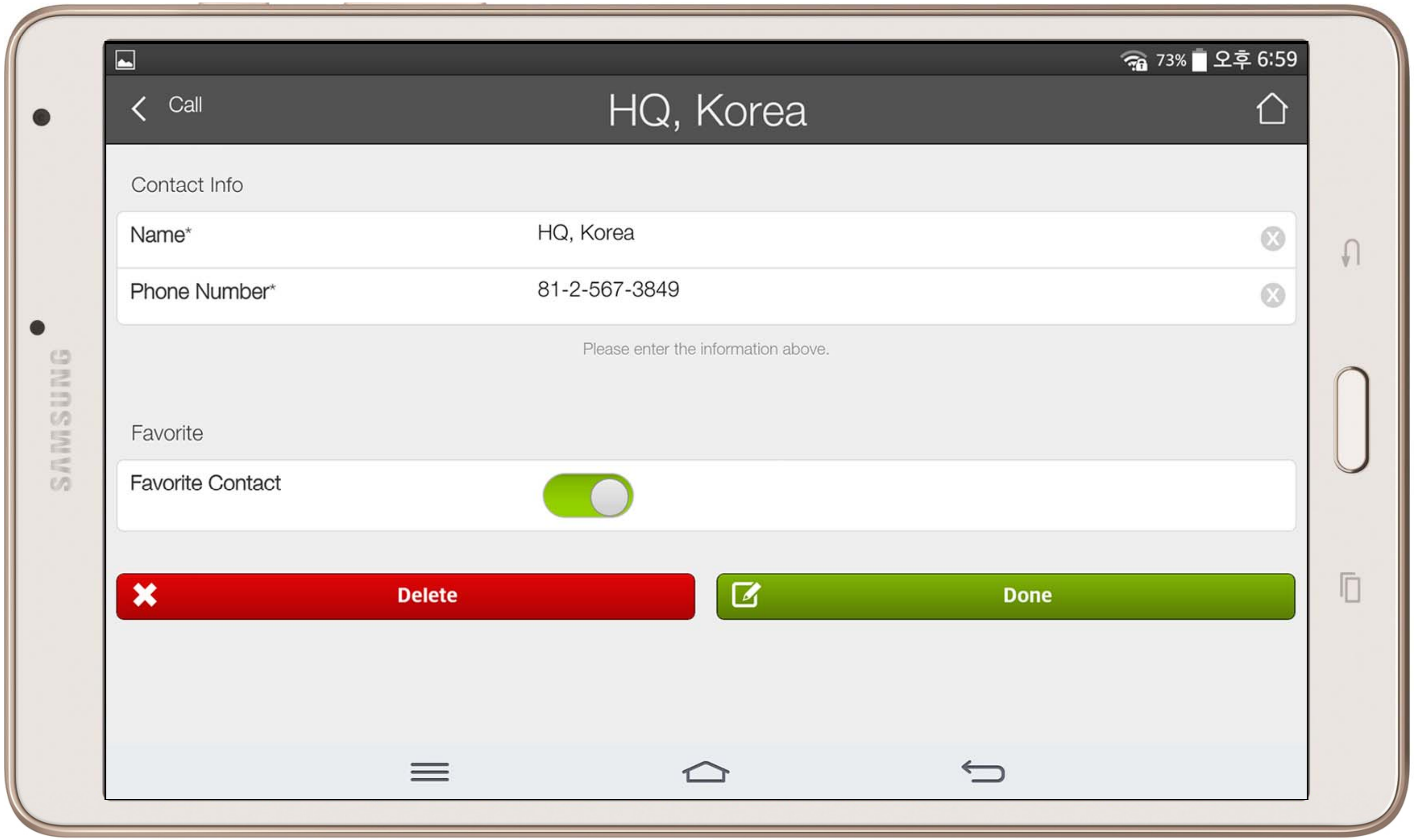


73% 오후 6:59
Main
Call
Favorites
Recent Call
Contacts
Keypad
SAMSUNG

Branch Seoul	02-568-3848
Brian	2000
HQ, Korea	81-2-567-3849
James	1000
LG_G_pad	1007
Mattew	3000
Park	010-1234-4567

Add to favorites

Add Contact



73% 오후 6:59
Call

HQ, Korea

Contact Info

Name* HQ, Korea

Phone Number* 81-2-567-3849

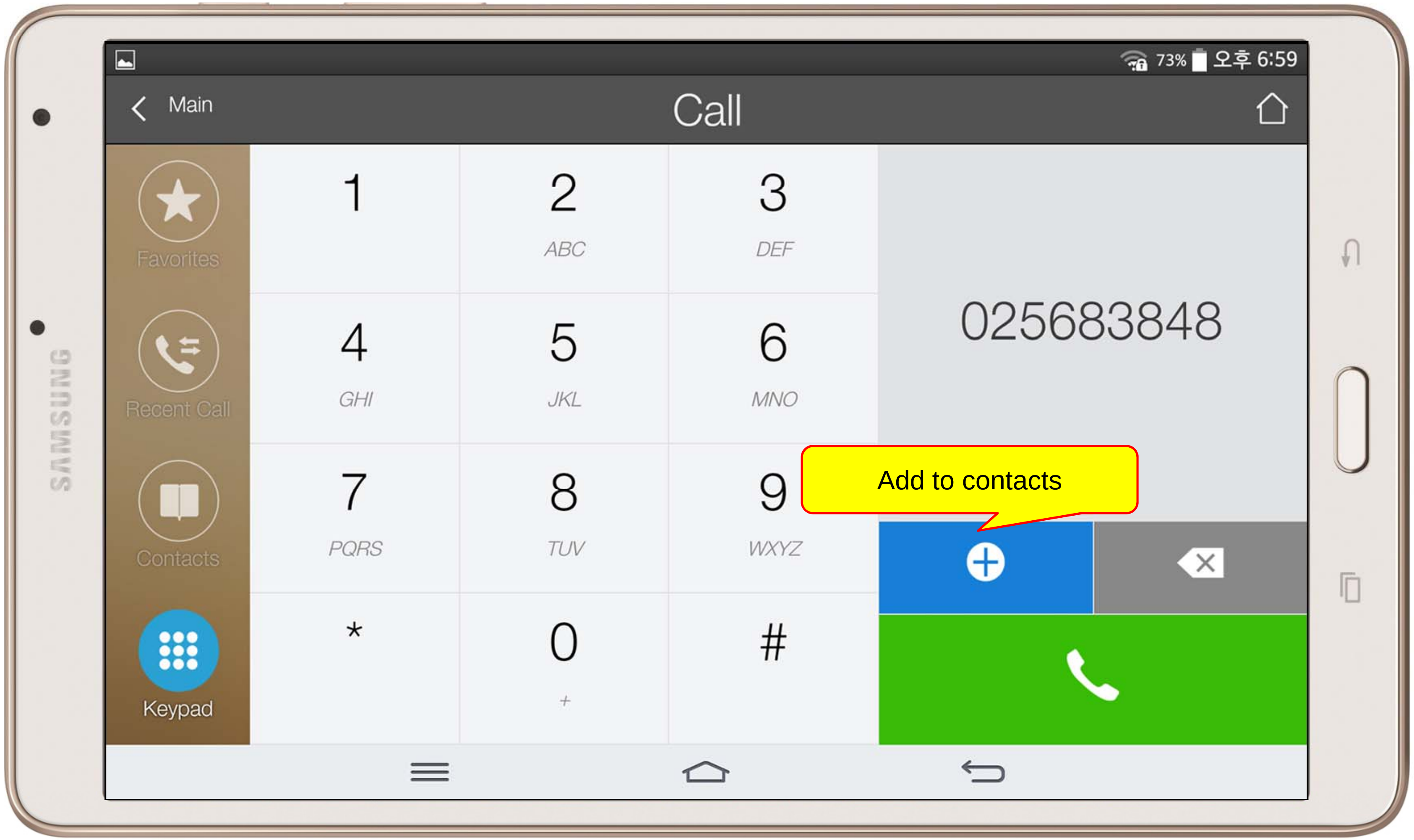
Please enter the information above.

Favorite

Favorite Contact

Delete
Done
SAMSUNG

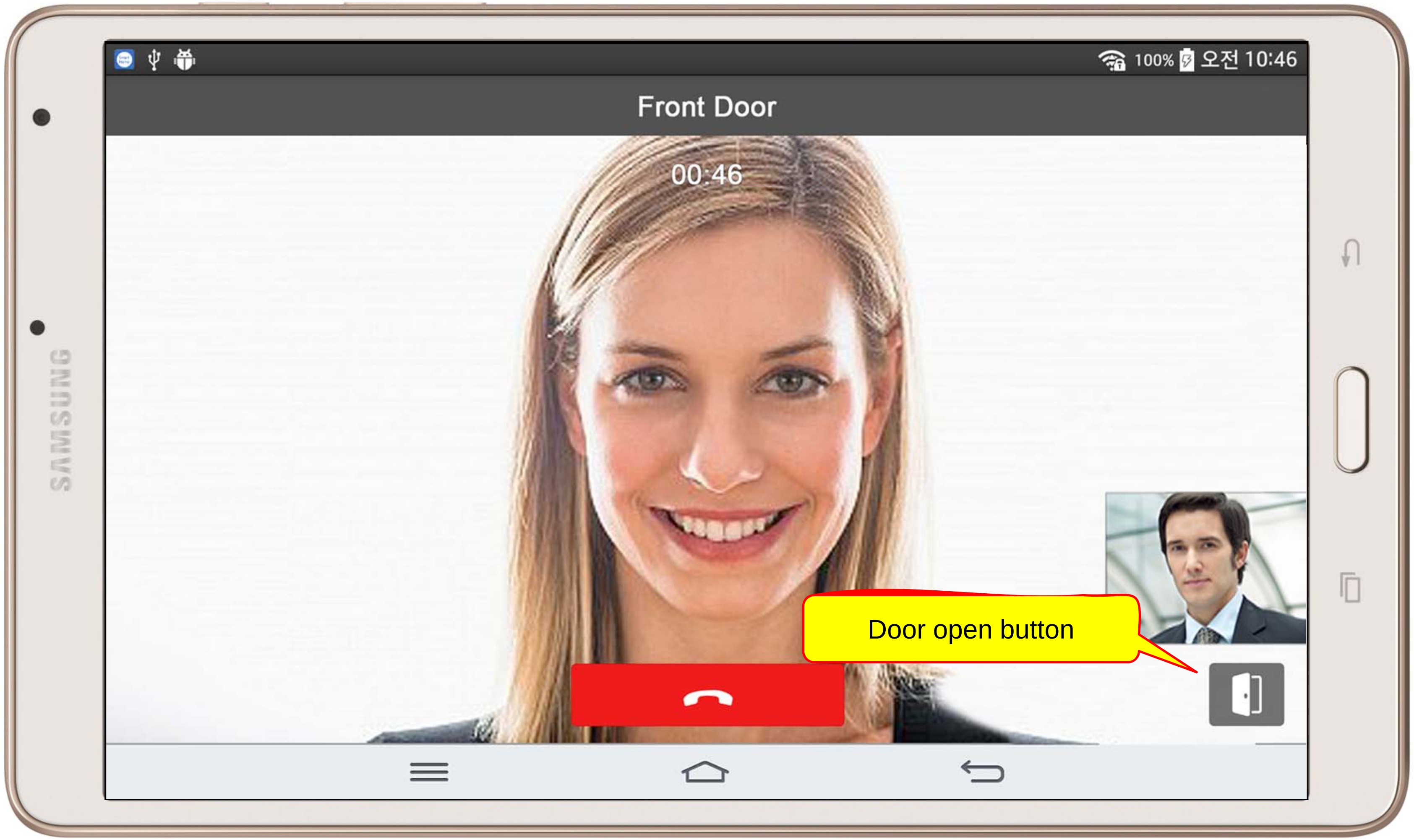
Keypad View



73% 오후 6:59
Main
Call
Favorites
Recent Call
Contacts
Keypad
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0 +
#
025683848
SAMSUNG

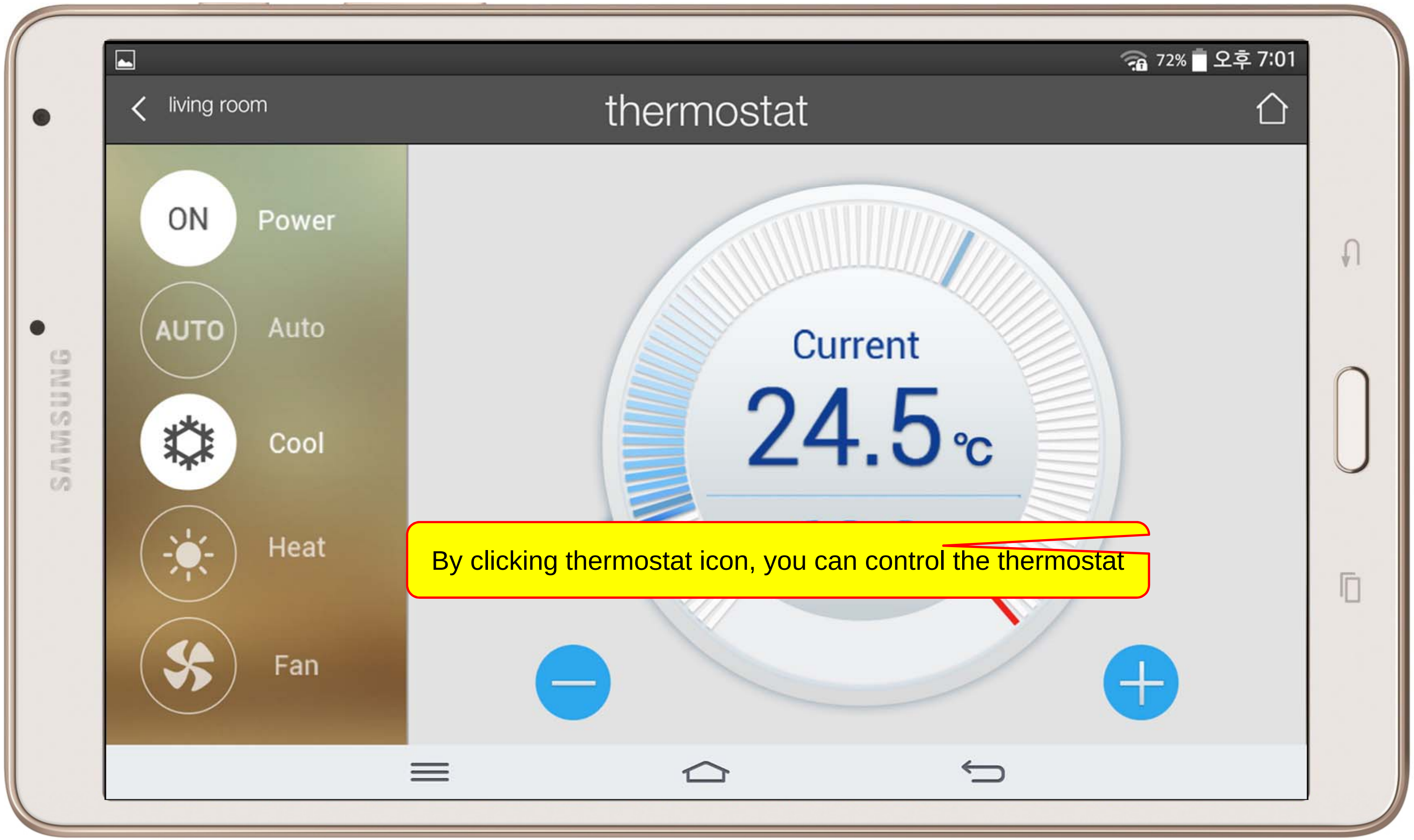
Add to contacts

Video Call View


100% 오전 10:46
Front Door
00:46
SAMSUNG

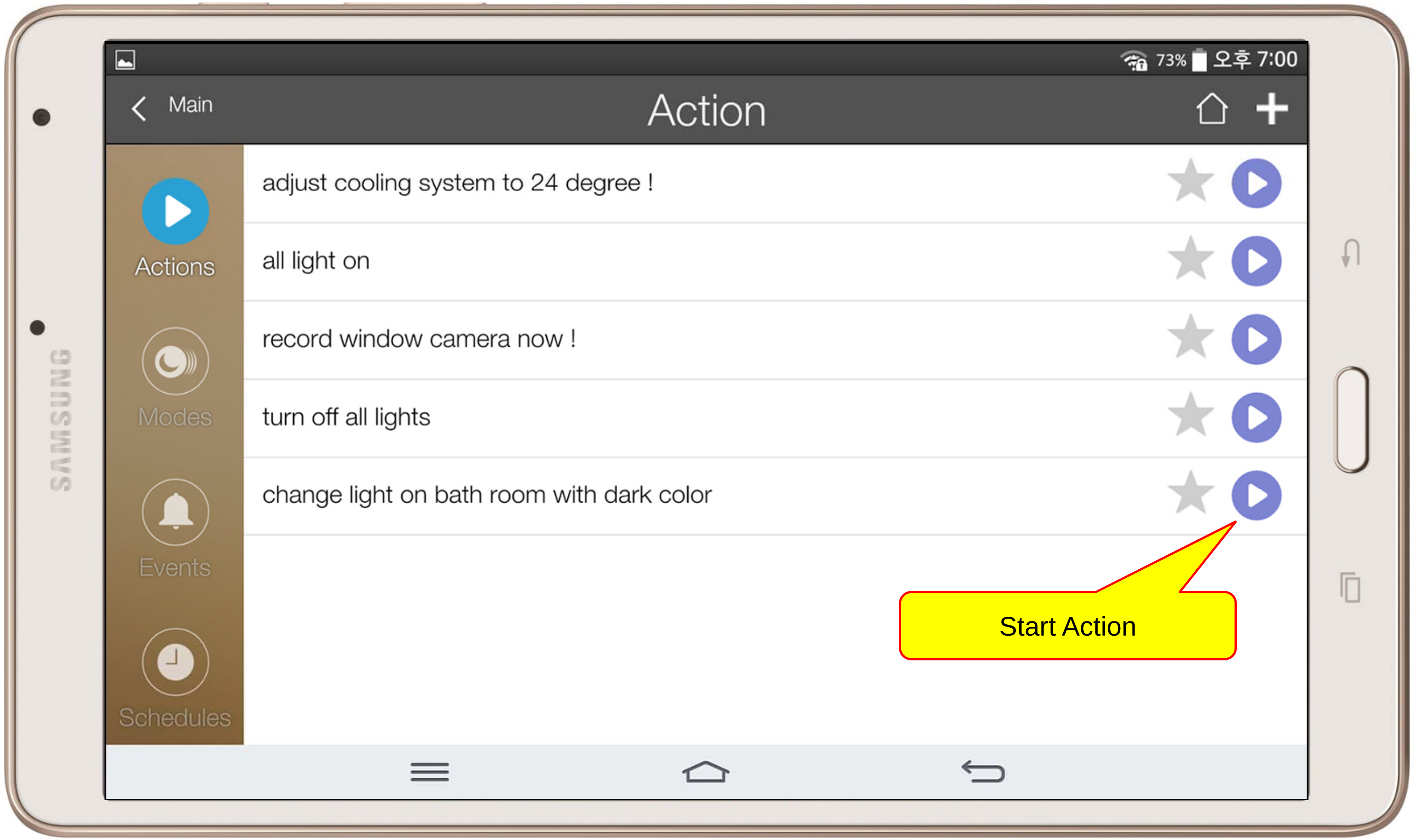
Door open button

Thermostat


72%
오후 7:01
living room
thermostat
ON
Power
AUTO
Auto
Cool
Heat
Fan
Current
24.5℃
SAMSUNG

By clicking thermostat icon, you can control the thermostat

Action View



73% 오후 7:00
Main
Action
Actions
Modes
Events
Schedules
SAMSUNG

adjust cooling system to 24 degree !

all light on

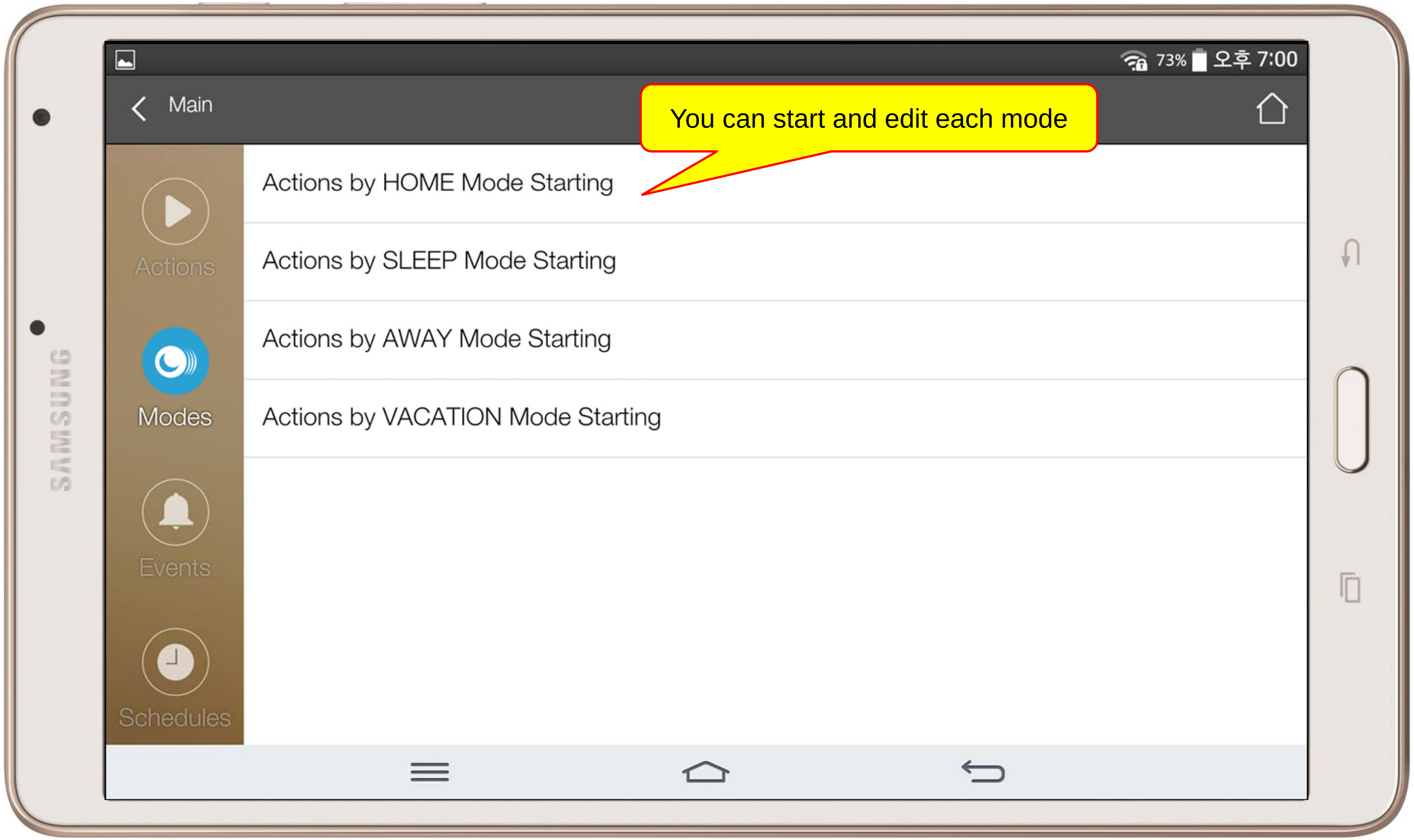
record window camera now !

turn off all lights

change light on bath room with dark color

Start Action

Mode View


73% 오후 7:00
Main
Actions
Modes
Events
Schedules

You can start and edit each mode

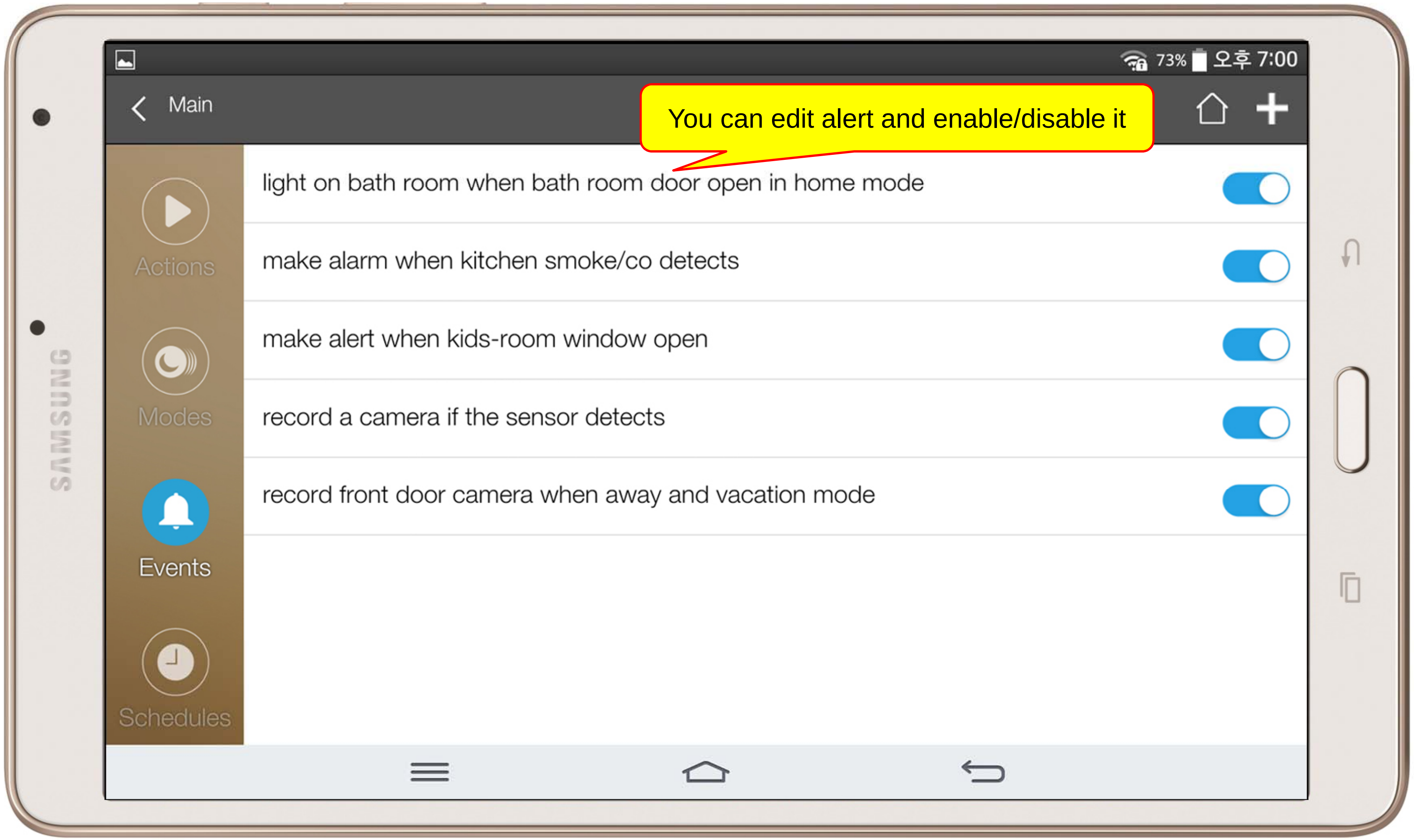
Actions by HOME Mode Starting

Actions by SLEEP Mode Starting

Actions by AWAY Mode Starting

Actions by VACATION Mode Starting

Alert View



You can edit alert and enable/disable it

light on bath room when bath room door open in home mode

make alarm when kitchen smoke/co detects

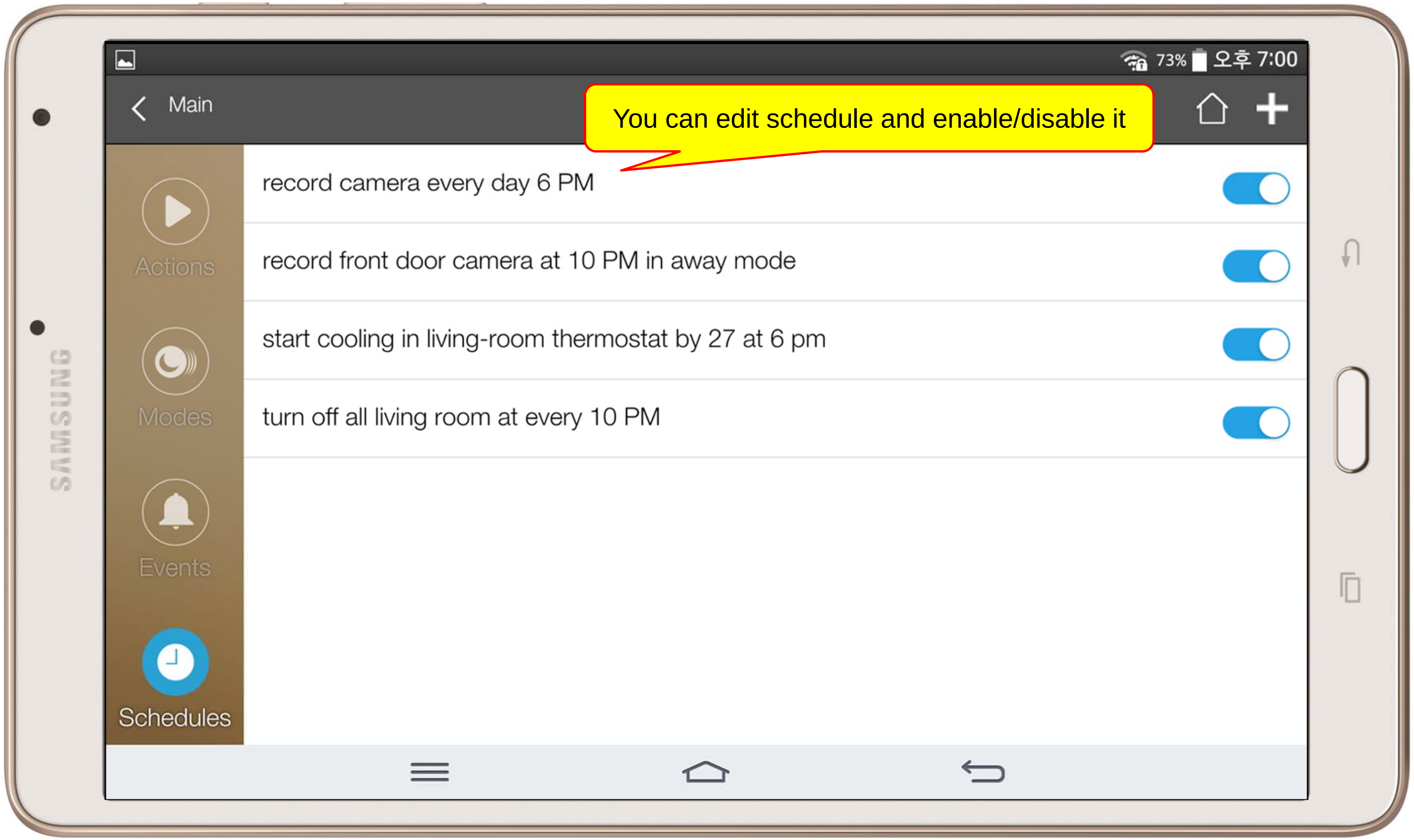
make alert when kids-room window open

record a camera if the sensor detects

record front door camera when away and vacation mode

73% 오후 7:00
Main
Actions
Modes
Events
Schedules
SAMSUNG

Schedule View


73% 오후 7:00
Main
Actions
Modes
Events
Schedules
SAMSUNG

You can edit schedule and enable/disable it

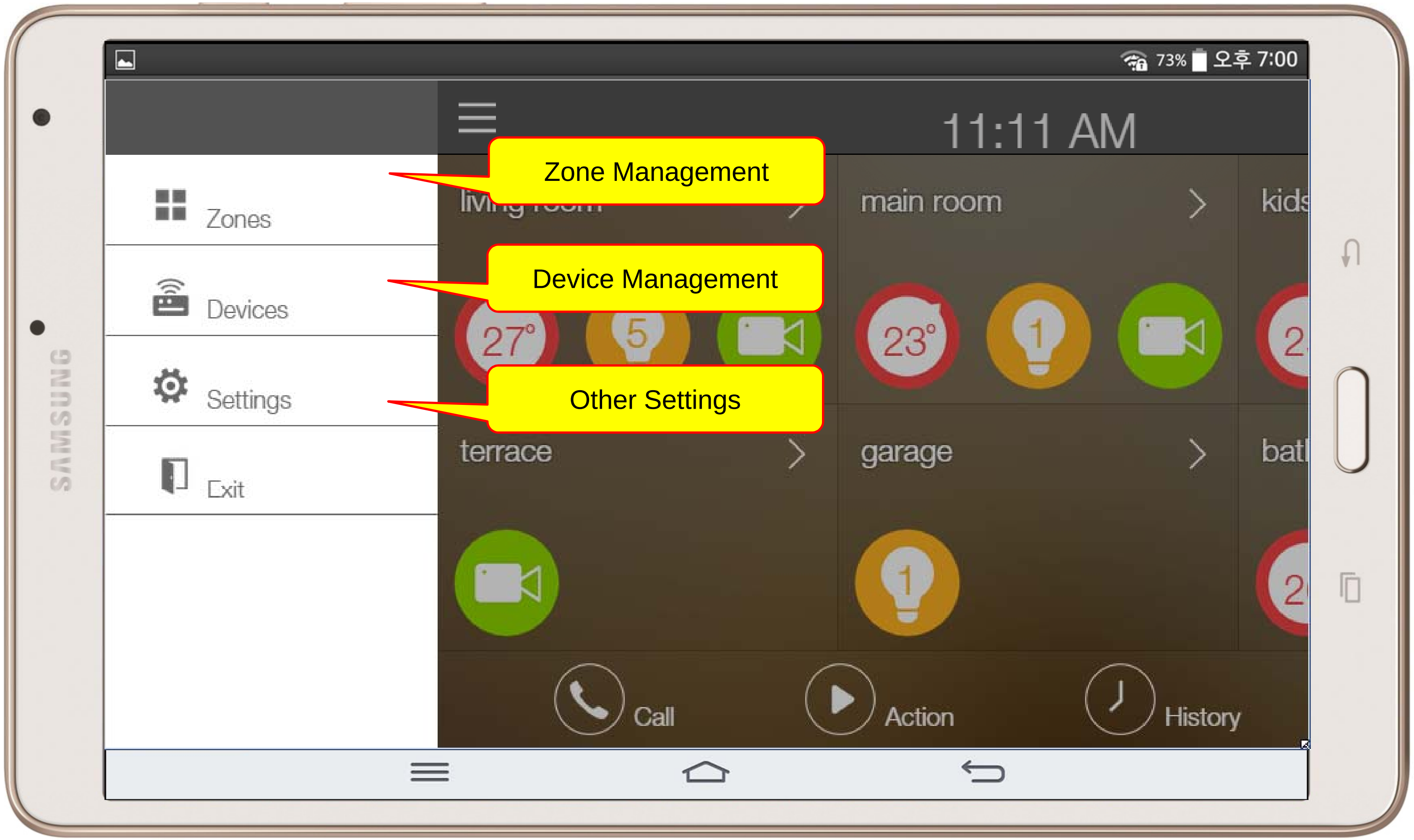
record camera every day 6 PM

record front door camera at 10 PM in away mode

start cooling in living-room thermostat by 27 at 6 pm

turn off all living room at every 10 PM

Setting Menu


73% 오후 7:00
11:11 AM
Zones
Devices
Settings
Exit
living room
main room
kids
terrace
garage
bat
27°
5
23°
1
Call
Action
History
SAMSUNG

Zone Management

Device Management

Other Settings

AP-ISH100
Apple IOS IoT Mobile Appl.

AP-ISH100 Overview

- It supports receiving a video call from video door phone by visitor.
- It supports making a video call to video door phone to see door side.
- It supports bidirectional video call from security guard video phone.
- It supports smart hub devices for sensor device handling.
- It supports IP camera view mode using RTSP protocol
- It supports standard based SIP signaling protocol.
- It supports below voice and video codecs

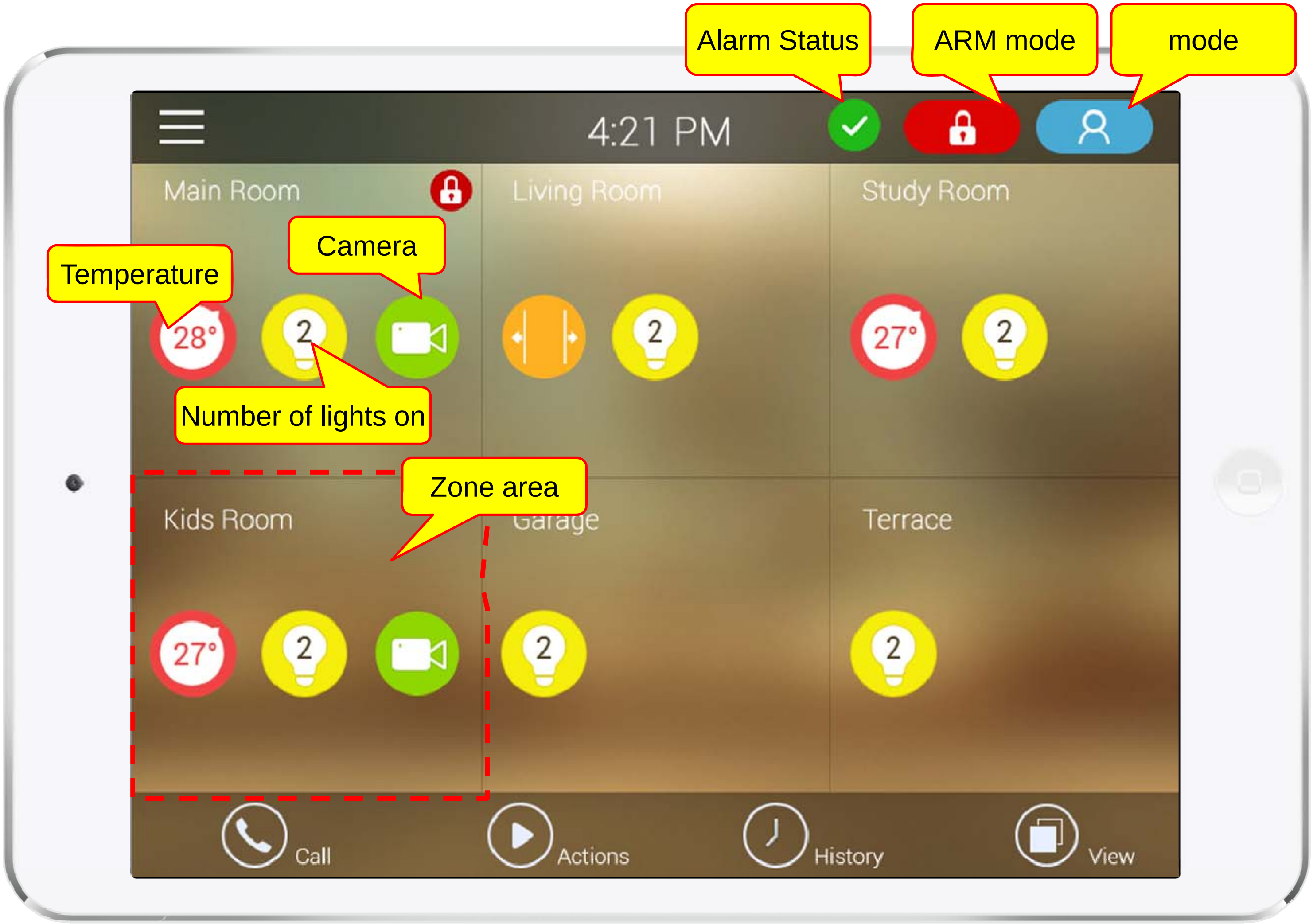
  - Voice Codec : G.711ulaw/alaw, G.726

  - Video Codec : H.264, H.263, MPEG4

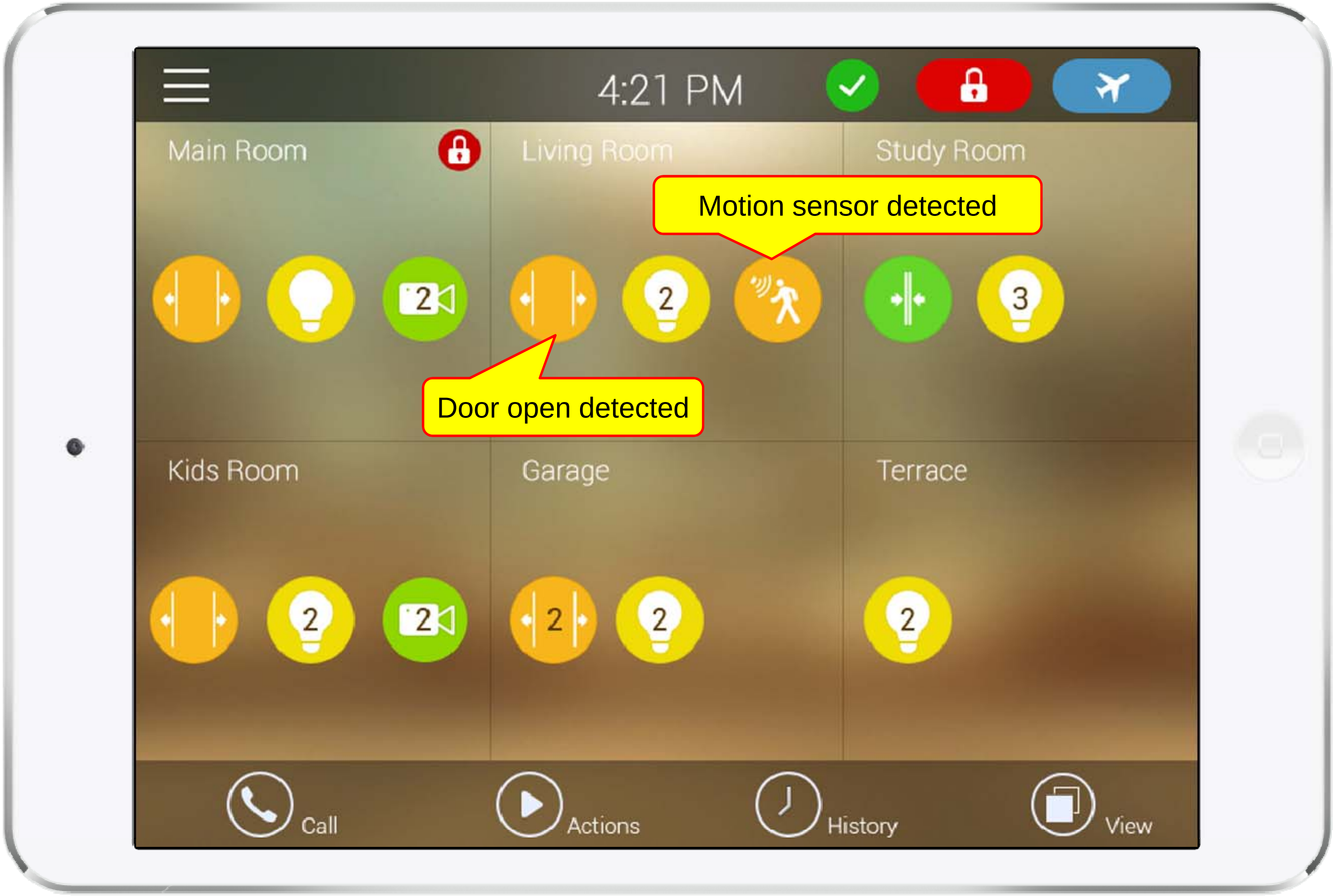
UI examples Lists

- Main View (Zone Summary)
- Armed Mode (Away, Stay, Night)
- Short View
- Zone View
- Zone Setting and Configuration
- IP Camera View Mode (Home, Outside Home)
- Call View (Favorite Call, Recent Call, Phone Book, etc)
- Video Call View
- Sensor Control View (Ex: Light Control, Thermostat, etc)
- Sensor Control View (Action, Mode, Alert, etc)

Main View (Zone Summary)


Alarm Status
ARM mode
mode
4:21 PM
Main Room
Living Room
Study Room
Temperature
Camera
28°
2
2
27°
2
Number of lights on
Zone area
Kids Room
Garage
Terrace
27°
2
2
2
Call
Actions
History
View

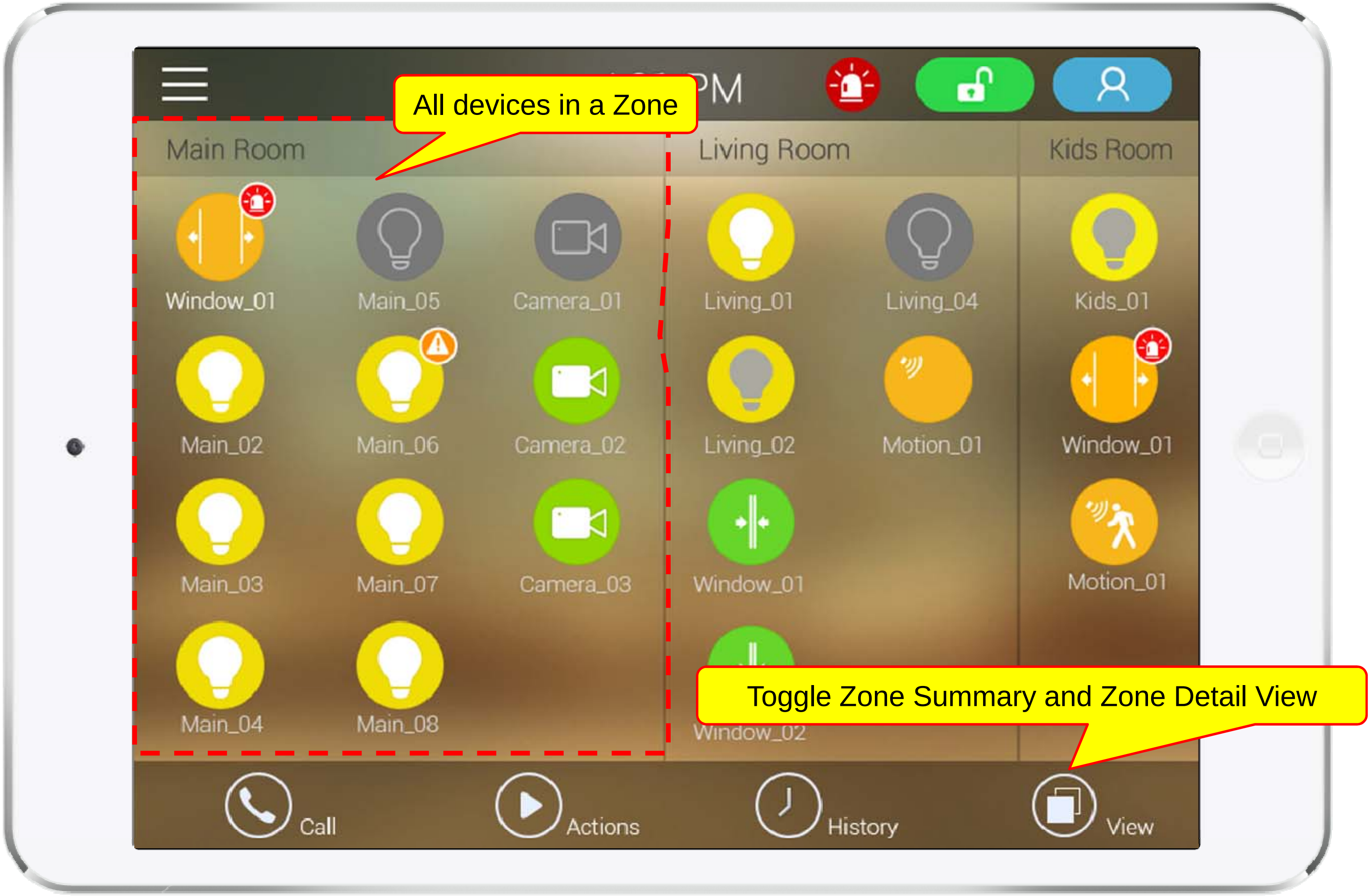
Main View (Cont.)


4:21 PM
Main Room
Living Room
Study Room
2
2
3
Kids Room
Garage
Terrace
2
2
2
2
2
2
Call
Actions
History
View

Motion sensor detected

Door open detected

Main View (Zone Detail)

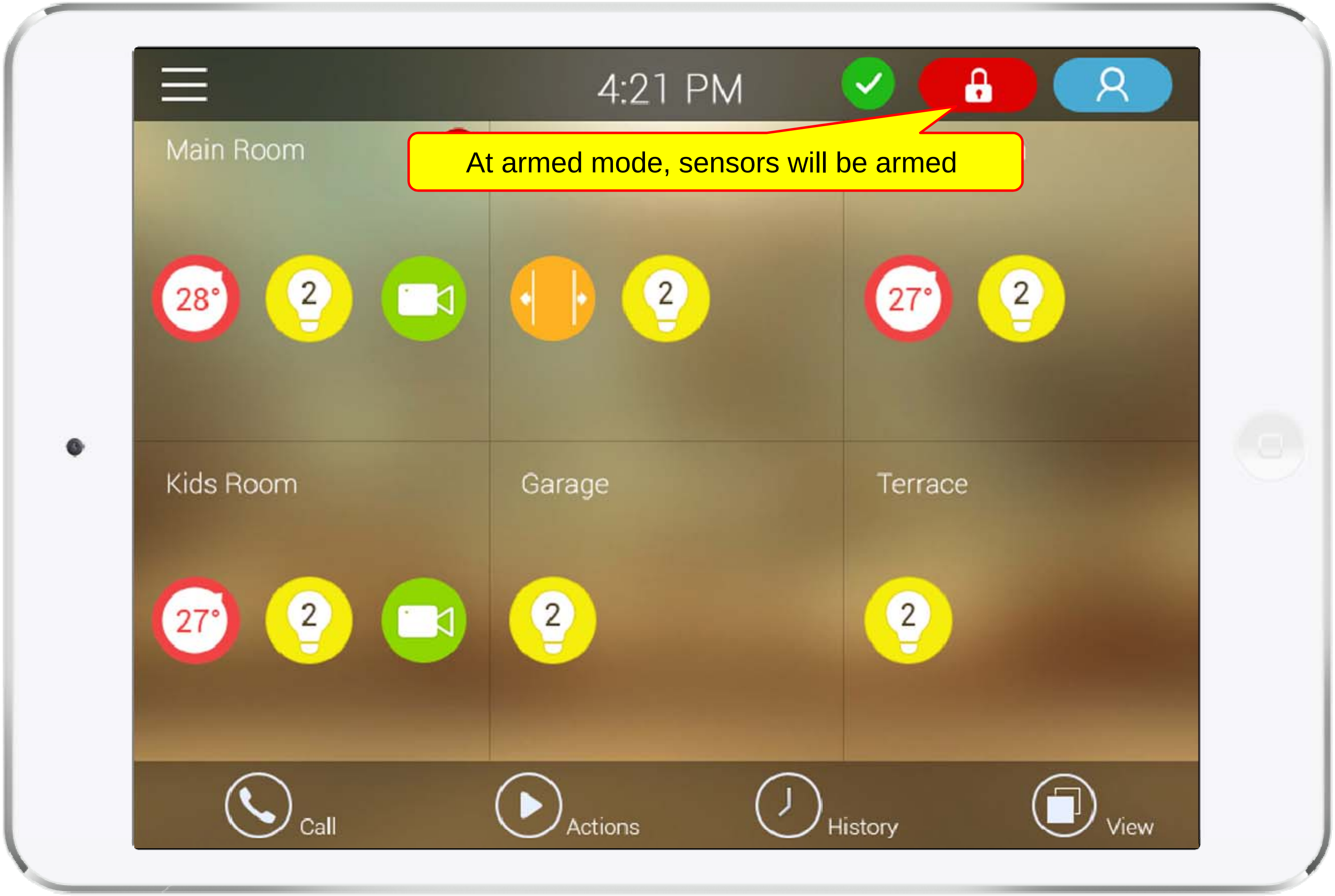


Main Room
Window_01
Main_05
Camera_01
Main_02
Main_06
Camera_02
Main_03
Main_07
Camera_03
Main_04
Main_08
Living Room
Living_01
Living_04
Living_02
Motion_01
Window_01
Window_02
Kids Room
Kids_01
Window_01
Motion_01
Call
Actions
History
View

All devices in a Zone

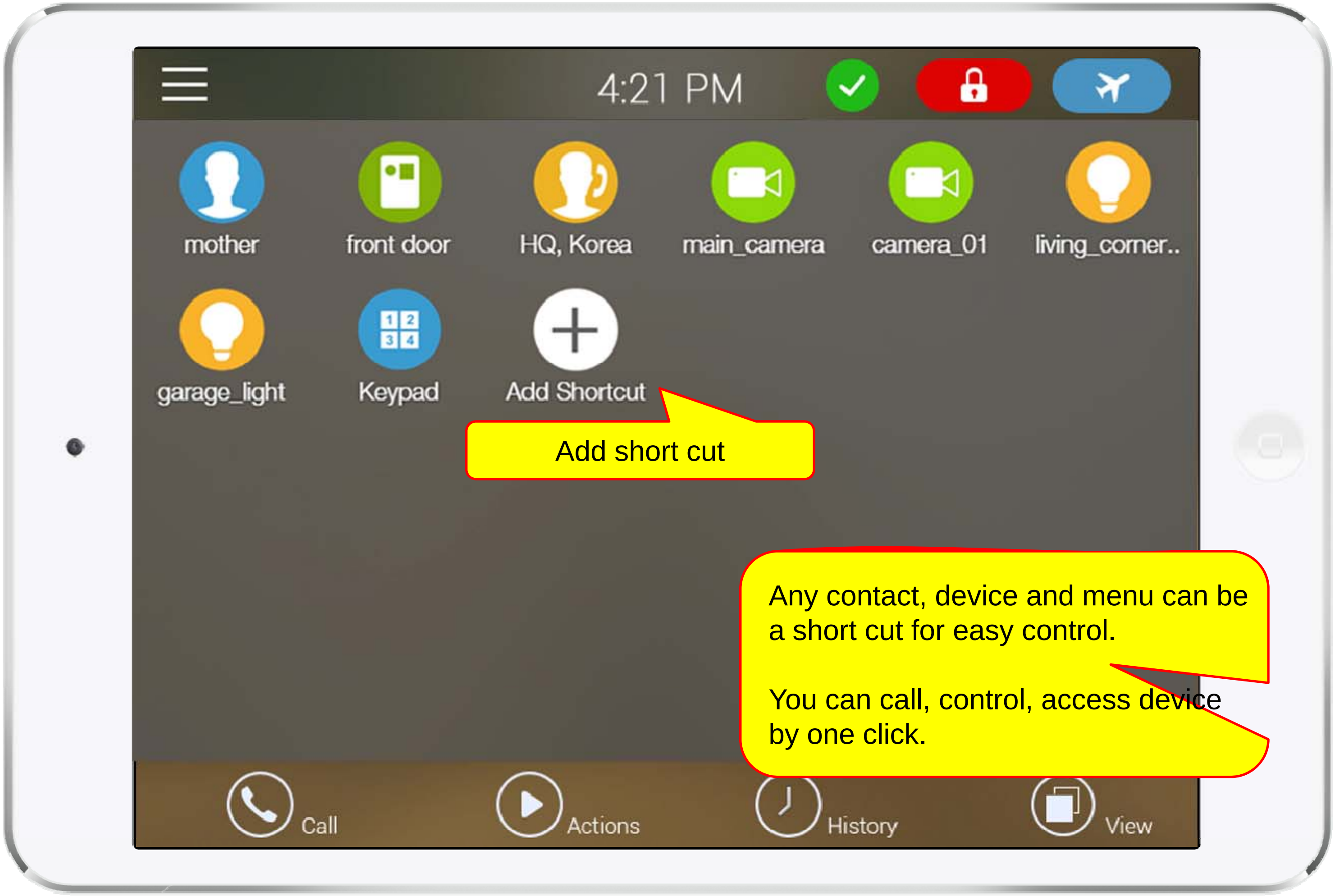
Toggle Zone Summary and Zone Detail View

Armed Mode


4:21 PM
Main Room
28°
2
2
27°
2
Kids Room
Garage
Terrace
27°
2
2
2
Call
Actions
History
View

At armed mode, sensors will be armed

Short Cut View

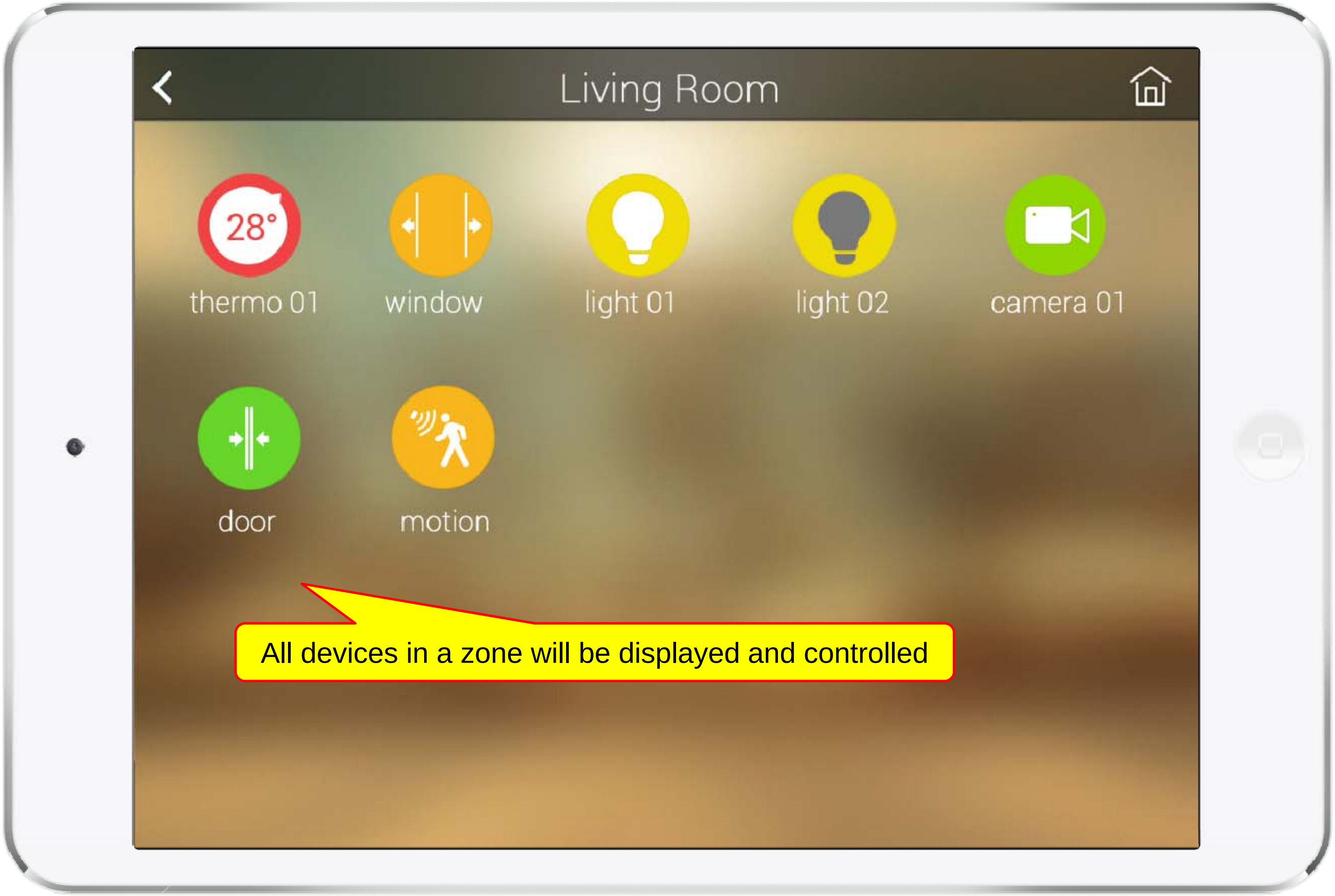

4:21 PM
mother
front door
HQ, Korea
main_camera
camera_01
living_corner..
garage_light
Keypad
Add Shortcut
Call
Actions
History
View

Add short cut

Any contact, device and menu can be a short cut for easy control.

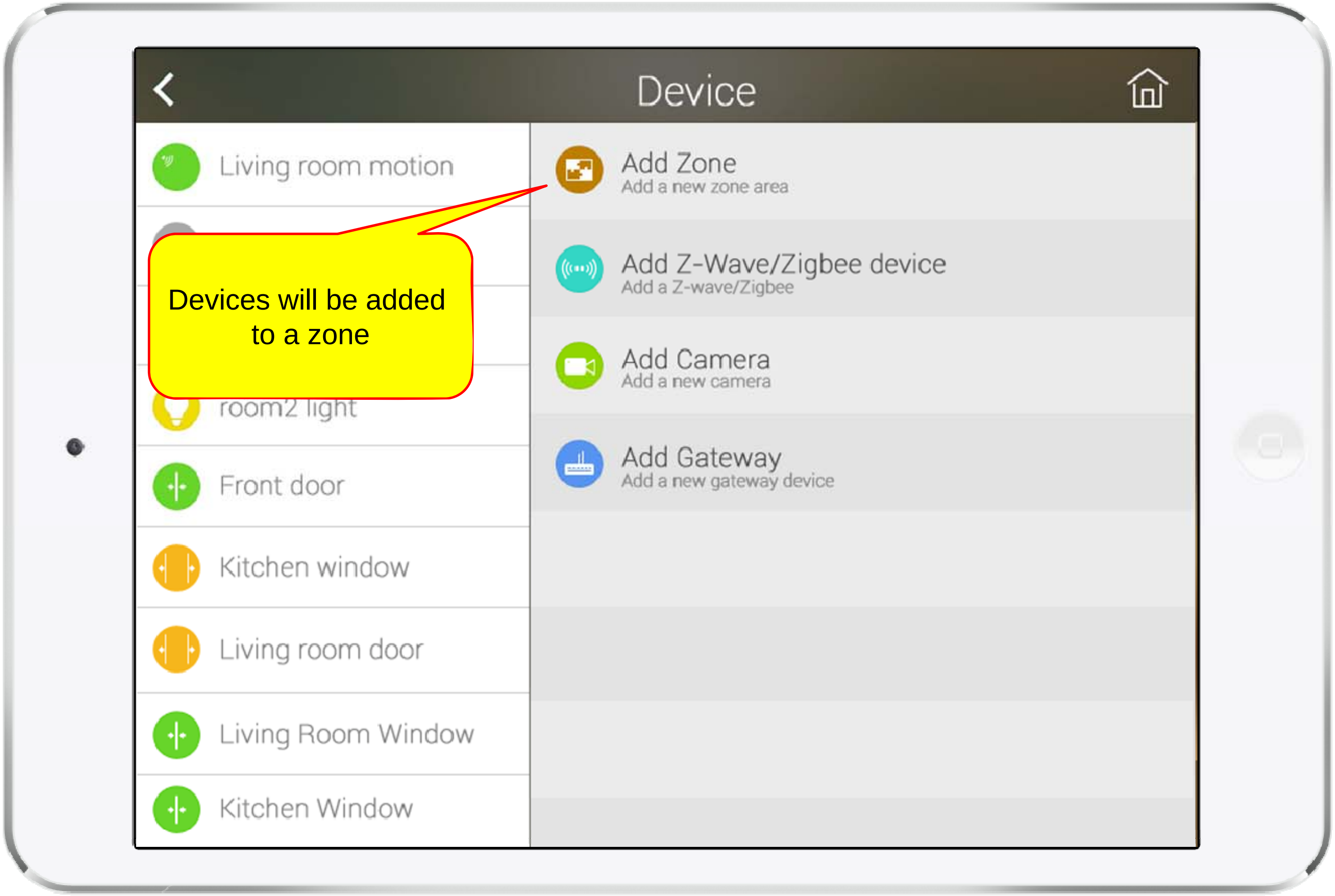
You can call, control, access device by one click.

Zone View


Living Room
28°
thermo 01
window
light 01
light 02
camera 01
door
motion

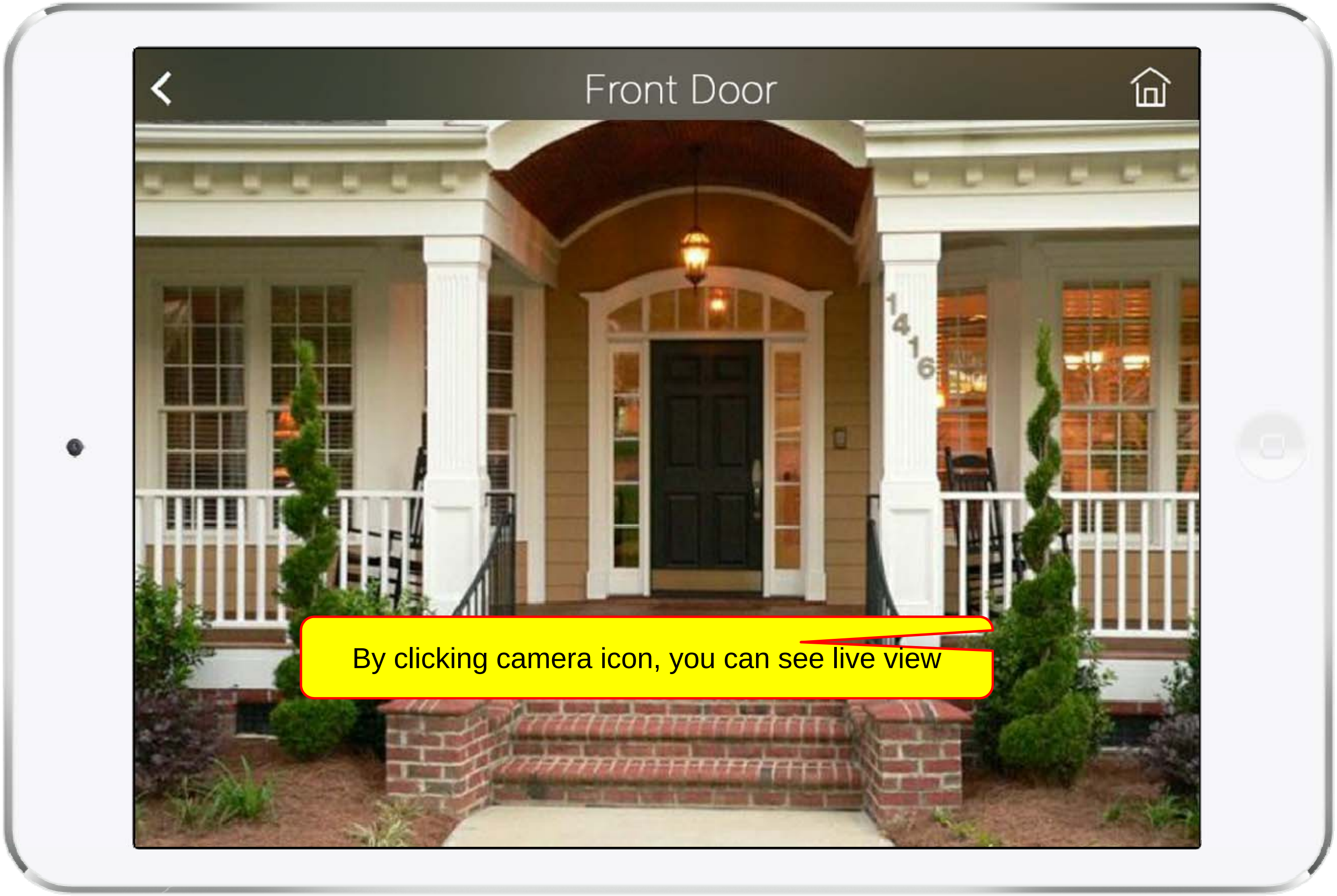
All devices in a zone will be displayed and controlled

Zone Setting


Device
Living room motion
room2 light
Front door
Kitchen window
Living room door
Living Room Window
Kitchen Window
Add Zone
Add a new zone area
Add Z-Wave/Zigbee device
Add a Z-wave/Zigbee
Add Camera
Add a new camera
Add Gateway
Add a new gateway device

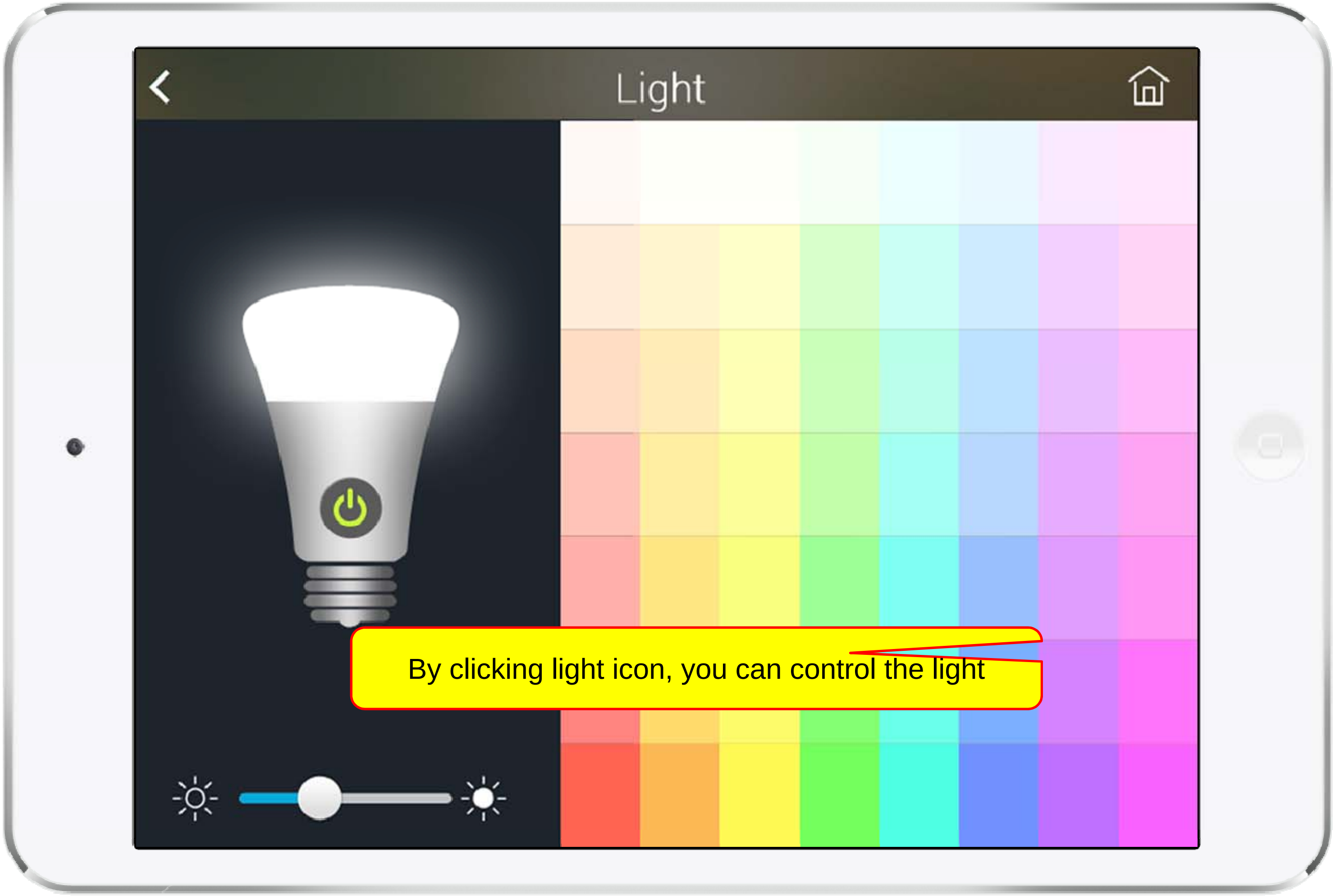
Devices will be added to a zone

Camera Live View



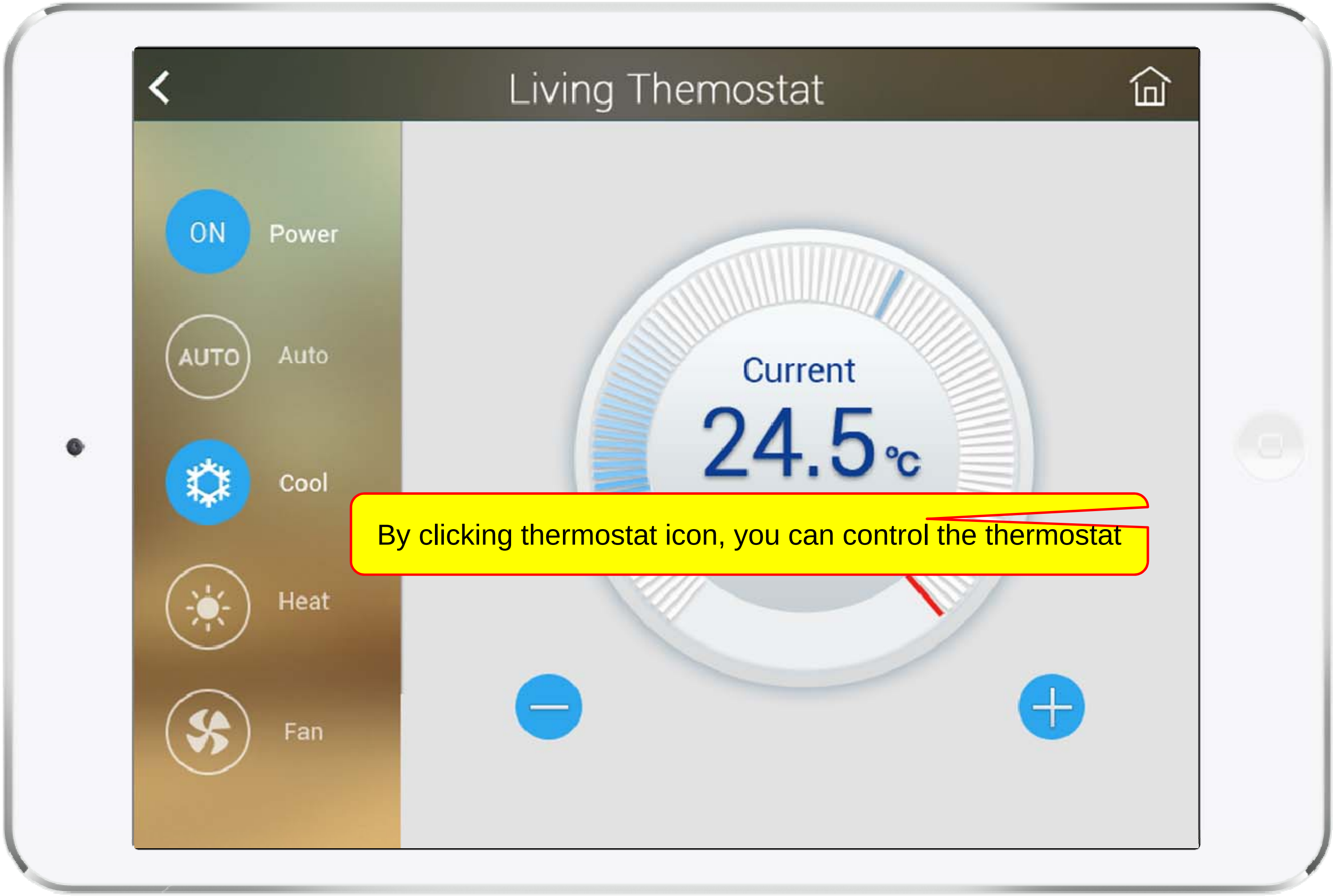
By clicking camera icon, you can see live view

Light Control



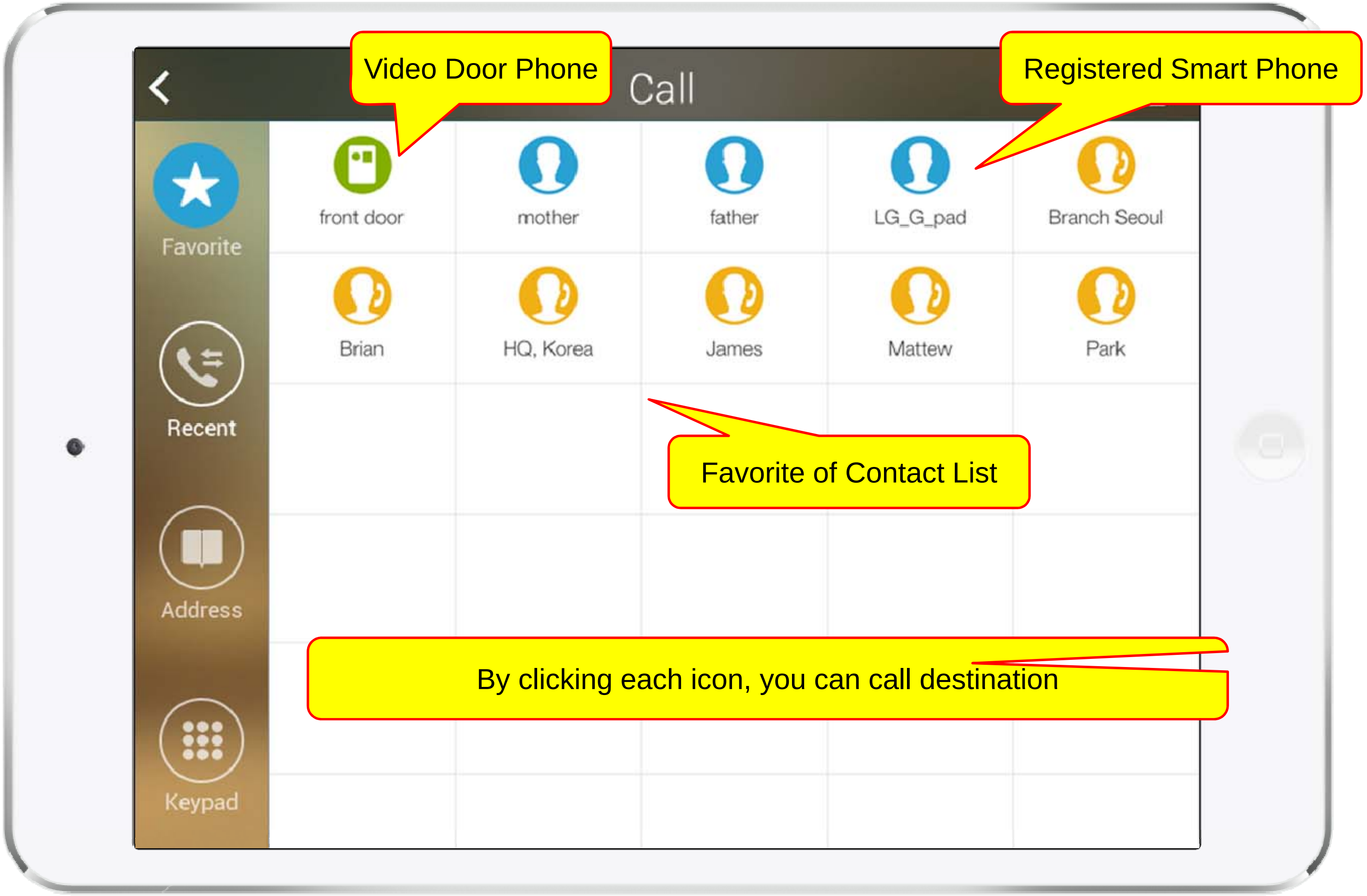
By clicking light icon, you can control the light

Thermostat


Living Themostat
ON
Power
AUTO
Auto
Cool
Heat
Fan
Current
24.5℃

By clicking thermostat icon, you can control the thermostat

Favorite Call View


Call
Favorite
Recent
Address
Keypad
front door
mother
father
LG_G_pad
Branch Seoul
Brian
HQ, Korea
James
Mattew
Park

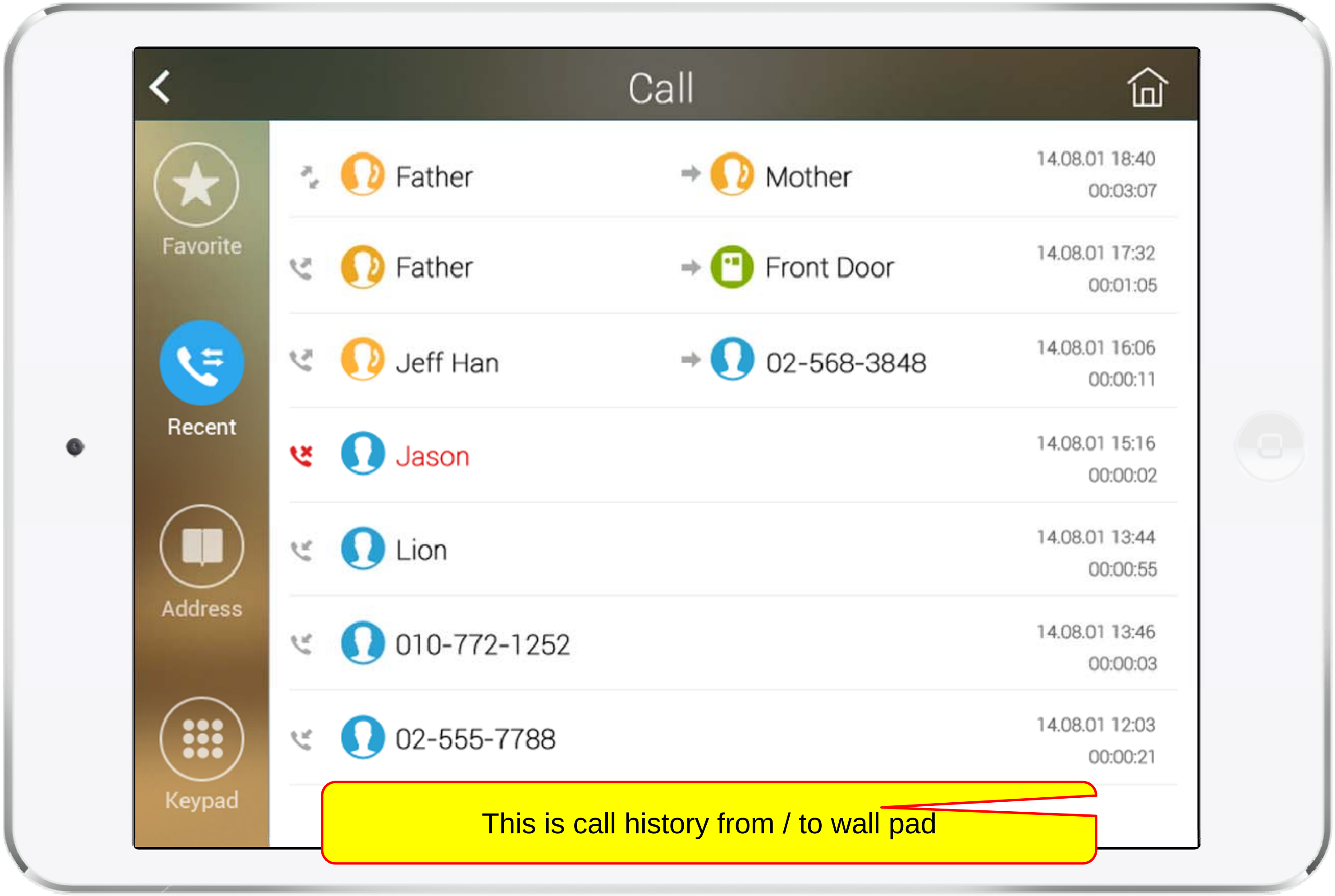
Video Door Phone

Registered Smart Phone

Favorite of Contact List

By clicking each icon, you can call destination

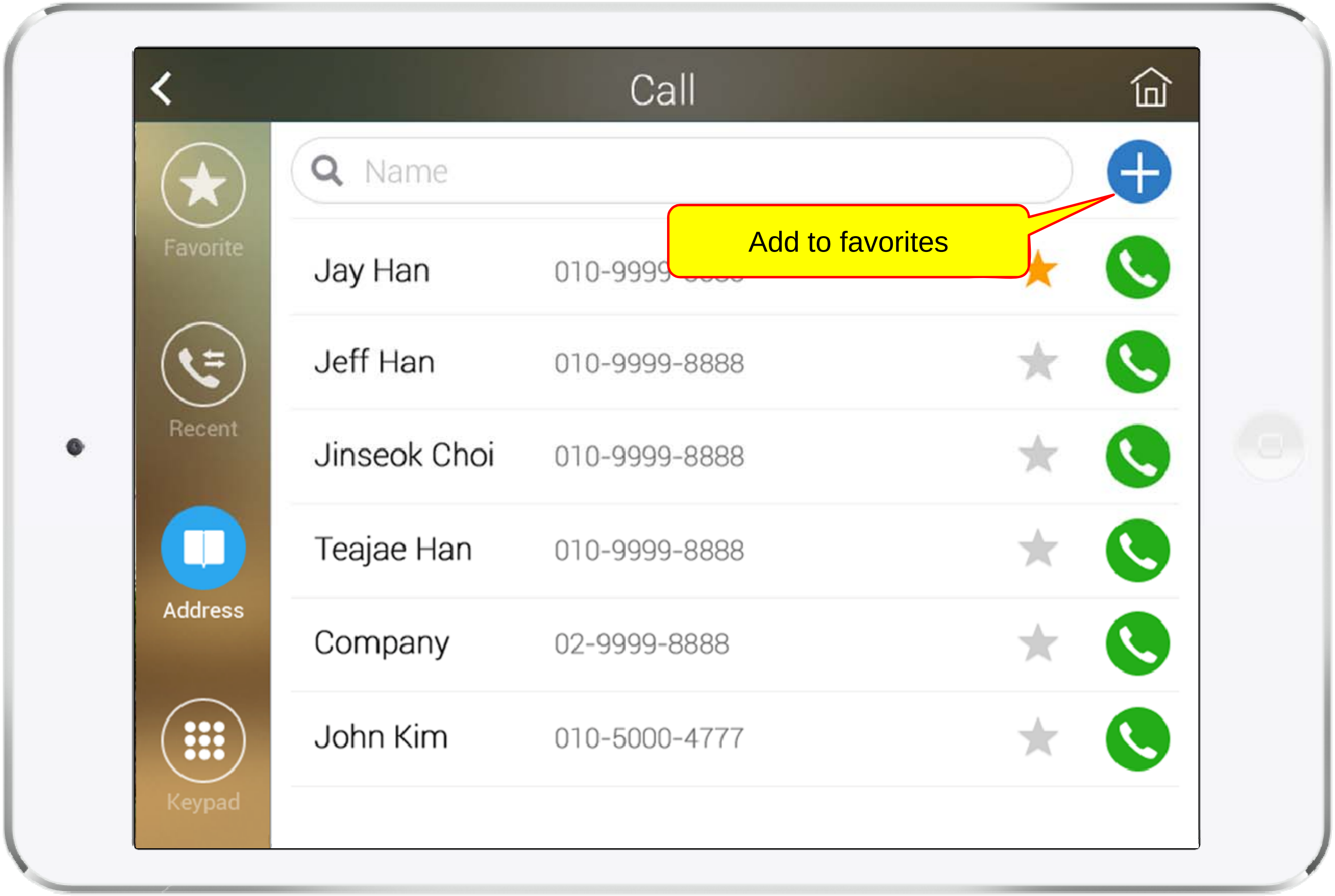
Recent Call View


Call
Favorite
Recent
Address
Keypad

Father	→ Mother	14.08.01 18:40	00:03:07
Father	→ Front Door	14.08.01 17:32	00:01:05
Jeff Han	→ 02-568-3848	14.08.01 16:06	00:00:11
Jason		14.08.01 15:16	00:00:02
Lion		14.08.01 13:44	00:00:55
010-772-1252		14.08.01 13:46	00:00:03
02-555-7788		14.08.01 12:03	00:00:21

This is call history from / to wall pad

Contact View

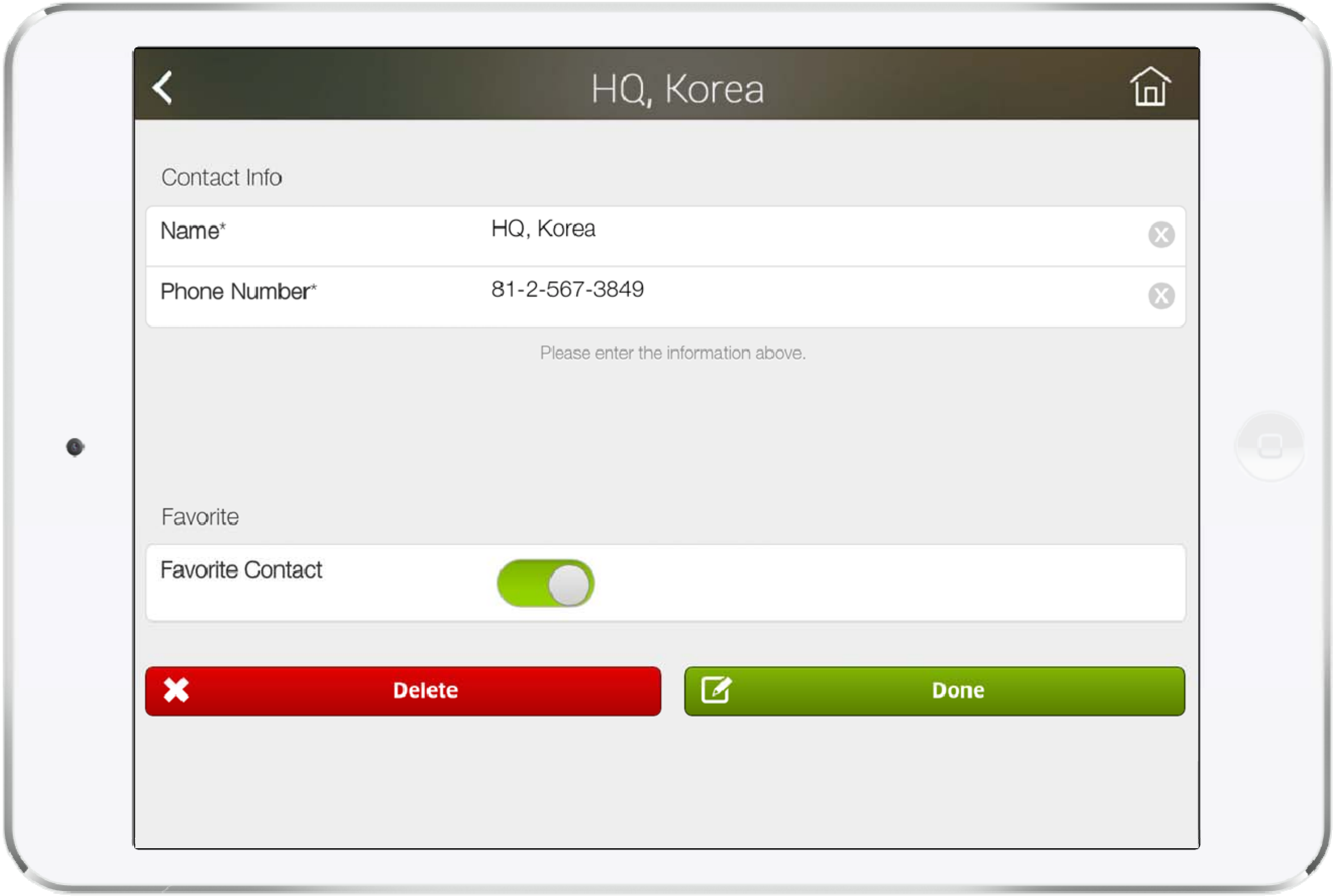


Add to favorites

Call
Name
Favorite
Recent
Address
Keypad

Jay Han	010-9999
Jeff Han	010-9999-8888
Jinseok Choi	010-9999-8888
Teajae Han	010-9999-8888
Company	02-9999-8888
John Kim	010-5000-4777

Add Contact



HQ, Korea

Contact Info

Name* HQ, Korea

Phone Number* 81-2-567-3849

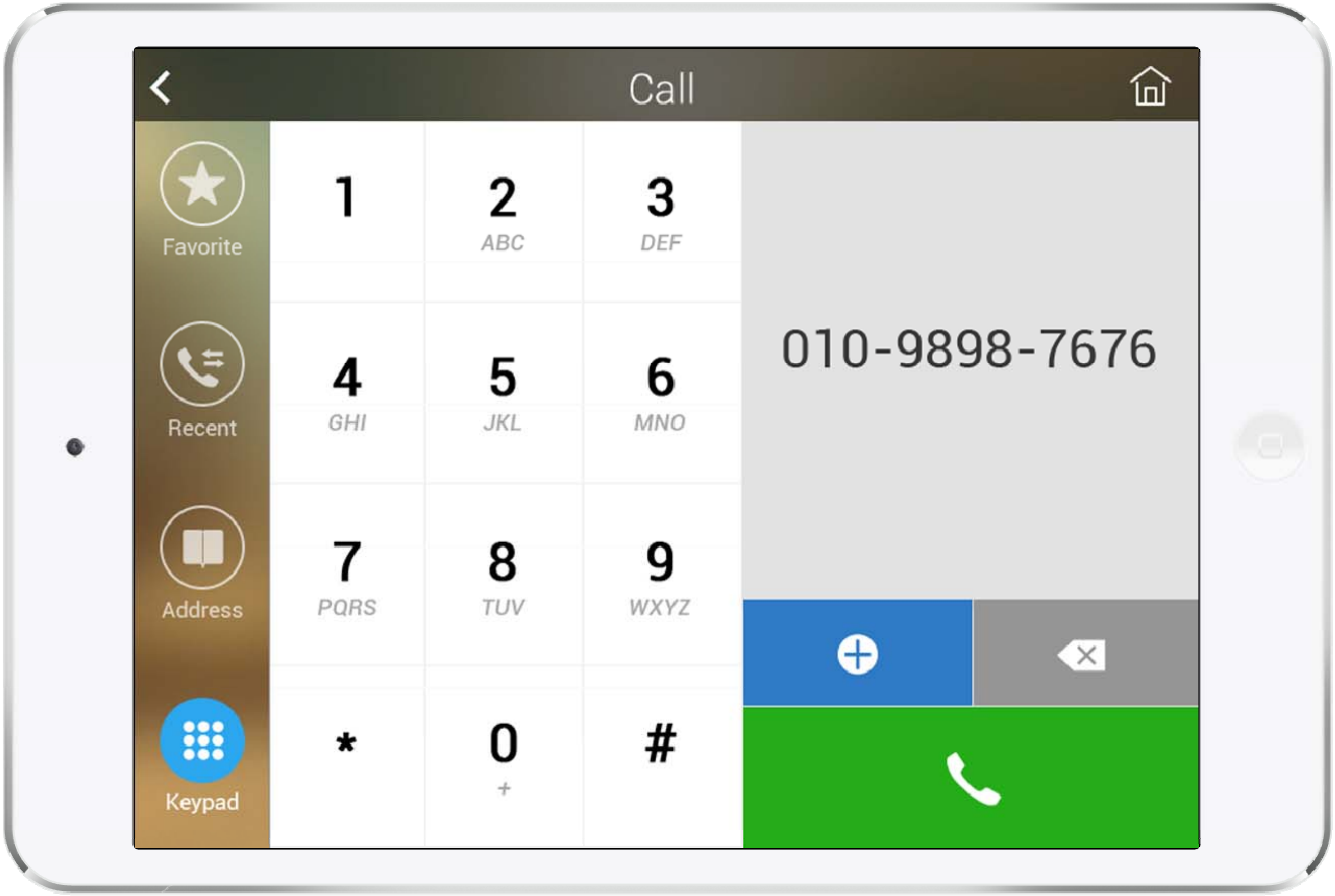
Please enter the information above.

Favorite

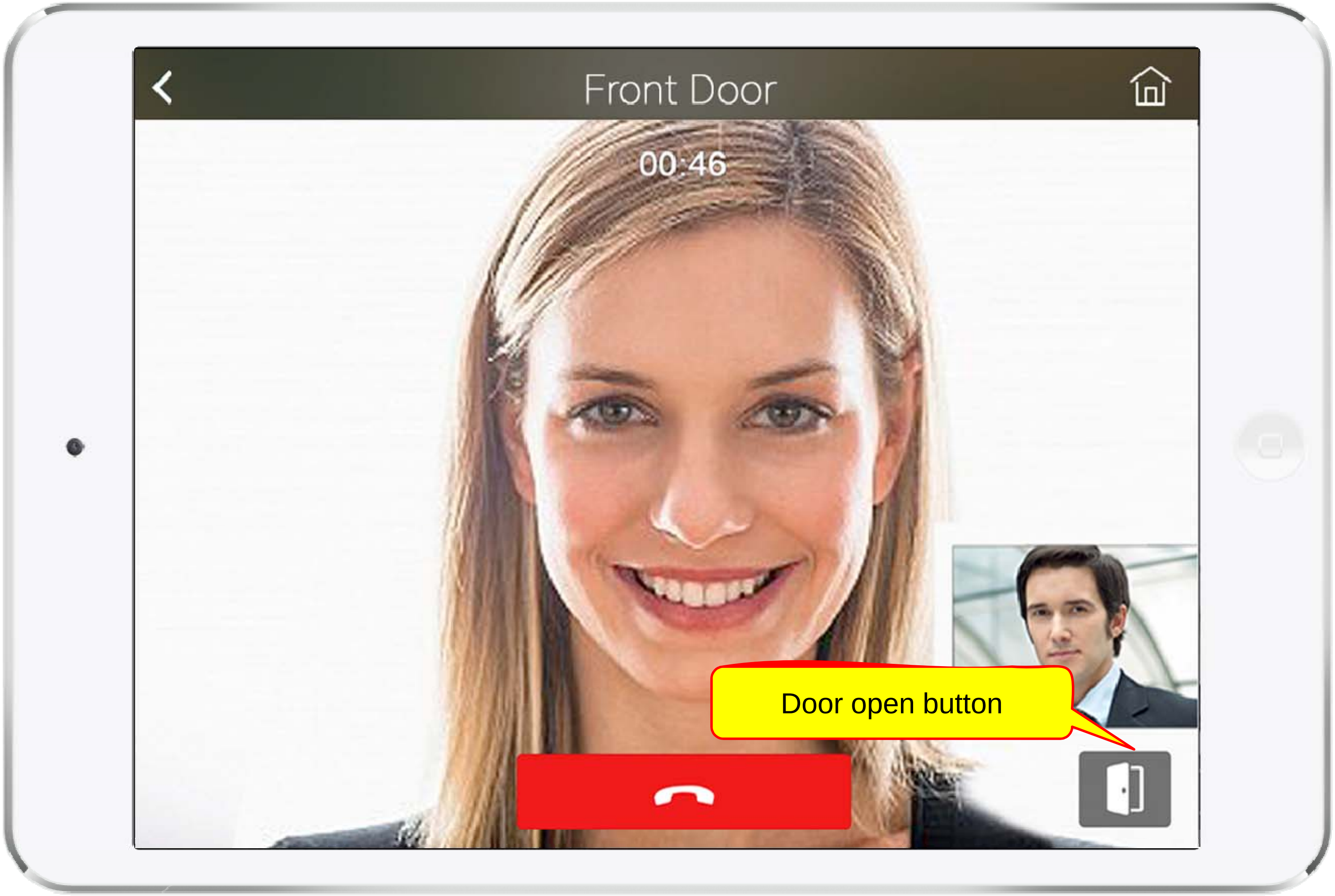
Favorite Contact ●

Delete
Done

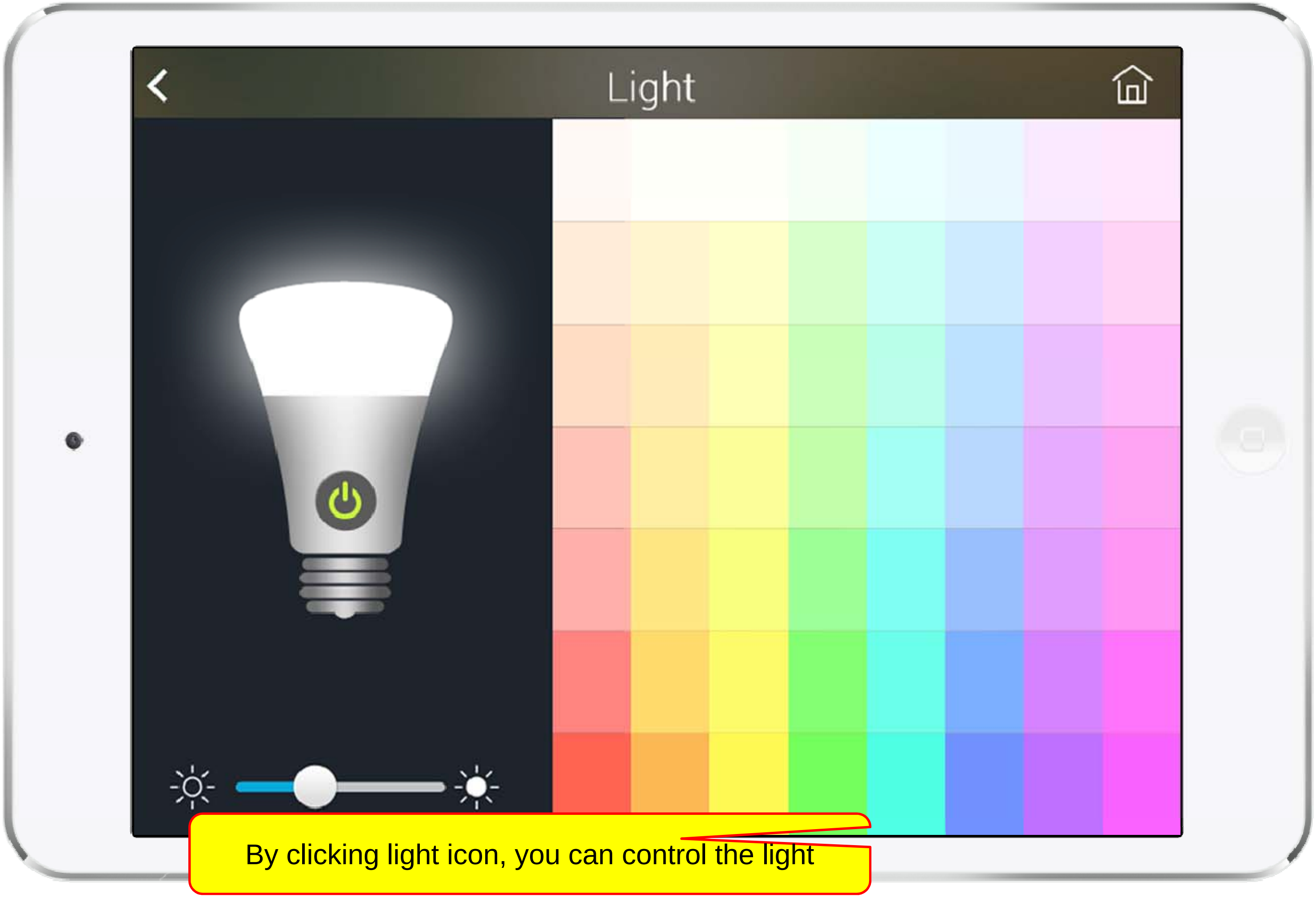
Keypad View


Call
Favorite
Recent
Address
Keypad
1
2
ABC
3
DEF
4
GHI
5
JKL
6
MNO
7
PQRS
8
TUV
9
WXYZ
*
0
+
#
010-9898-7676

Video Call View

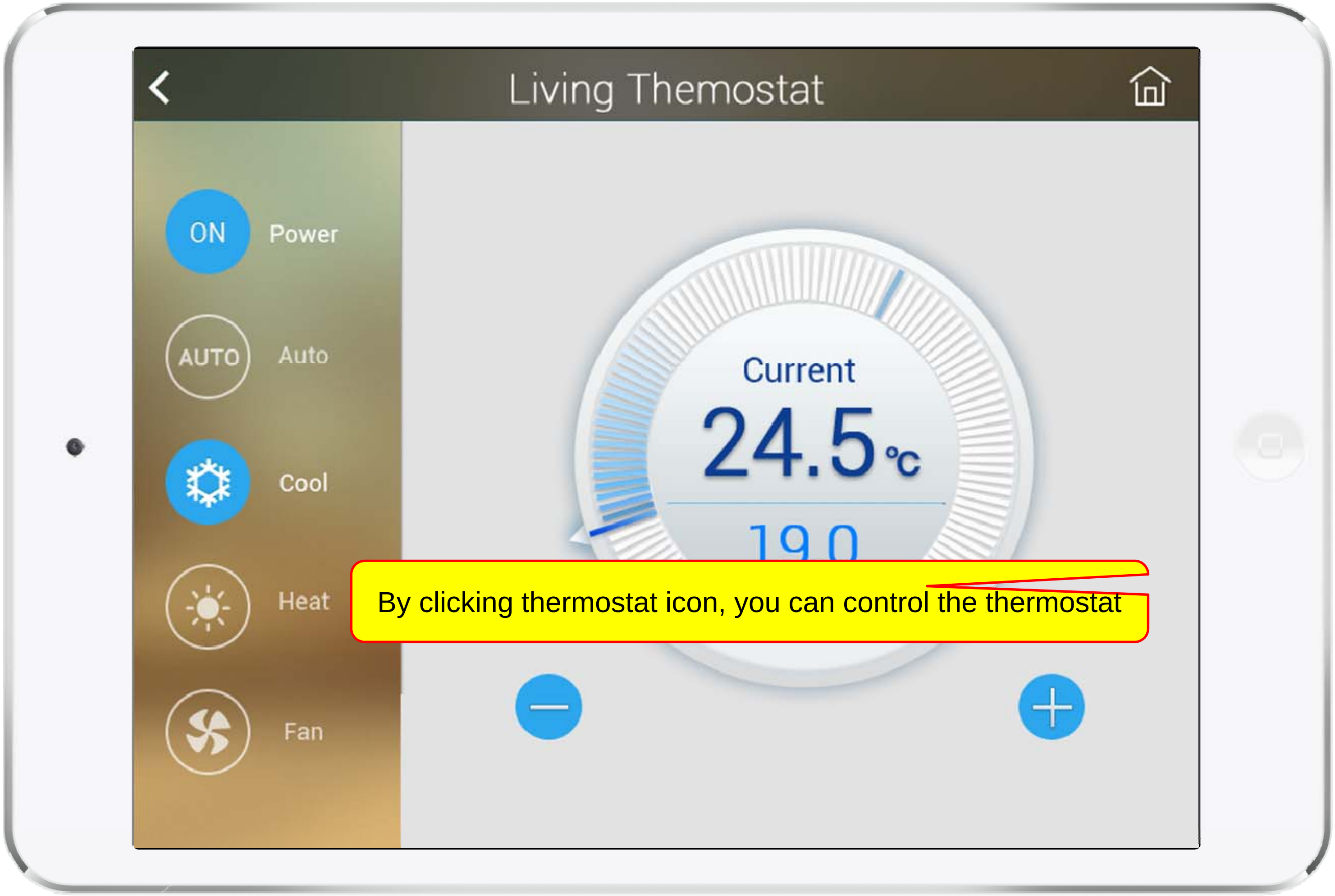

Front Door
00:46
Door open button

Light Control



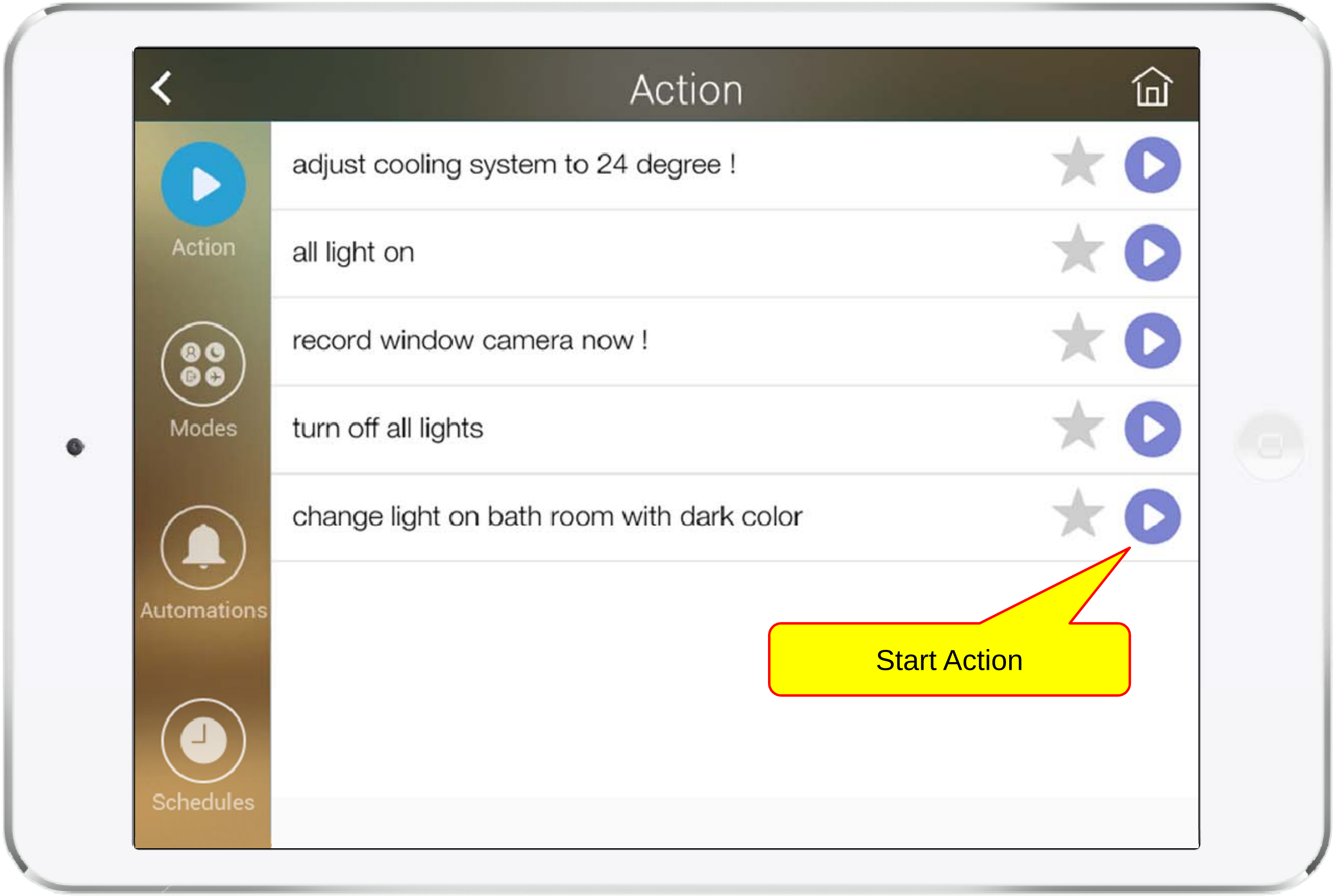
By clicking light icon, you can control the light

Thermostat


Living Themostat
ON
Power
AUTO
Auto
Cool
Heat
Fan
Current
24.5℃
19.0

By clicking thermostat icon, you can control the thermostat

Action View



Action
Action
Modes
Automations
Schedules

adjust cooling system to 24 degree !

all light on

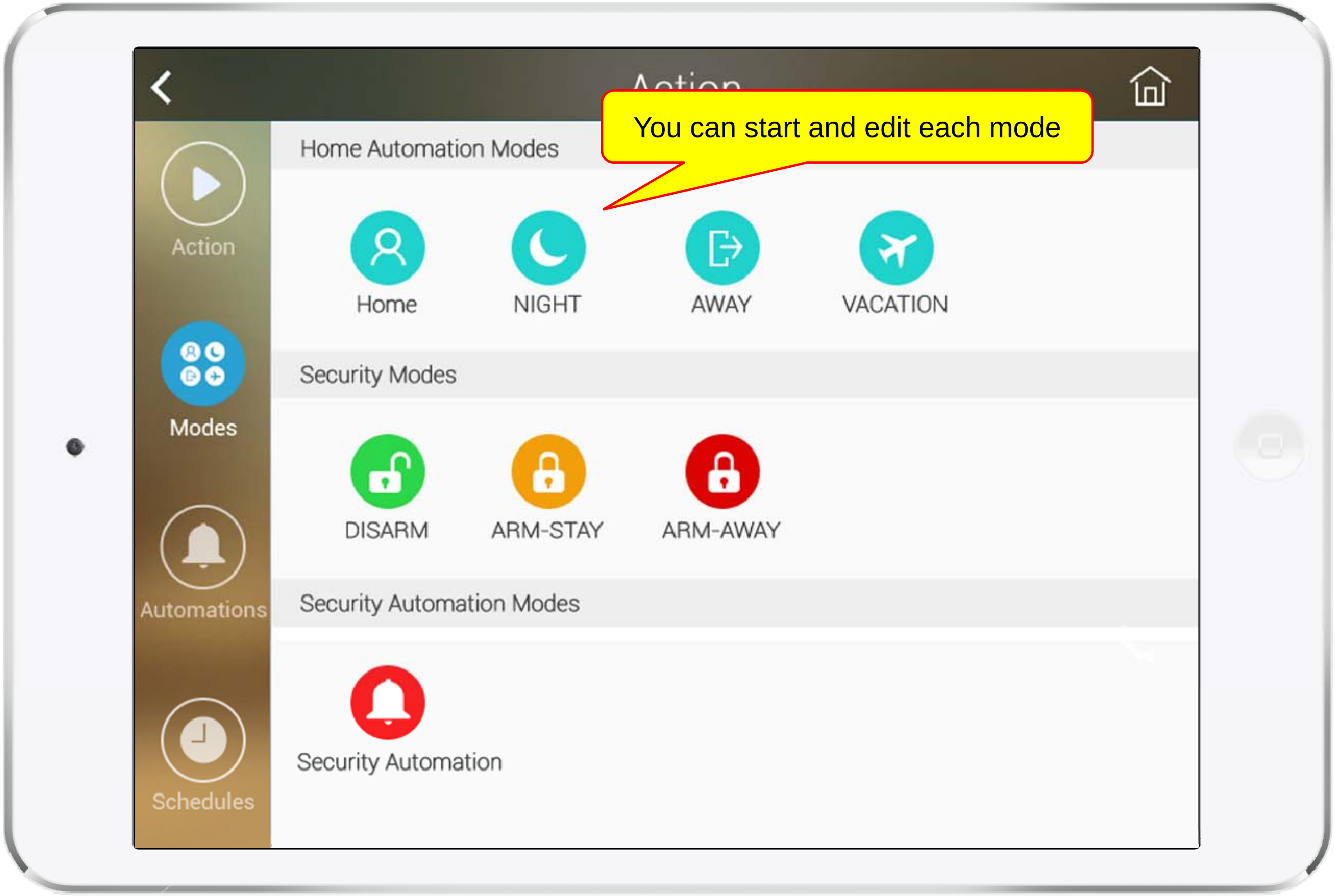
record window camera now !

turn off all lights

change light on bath room with dark color

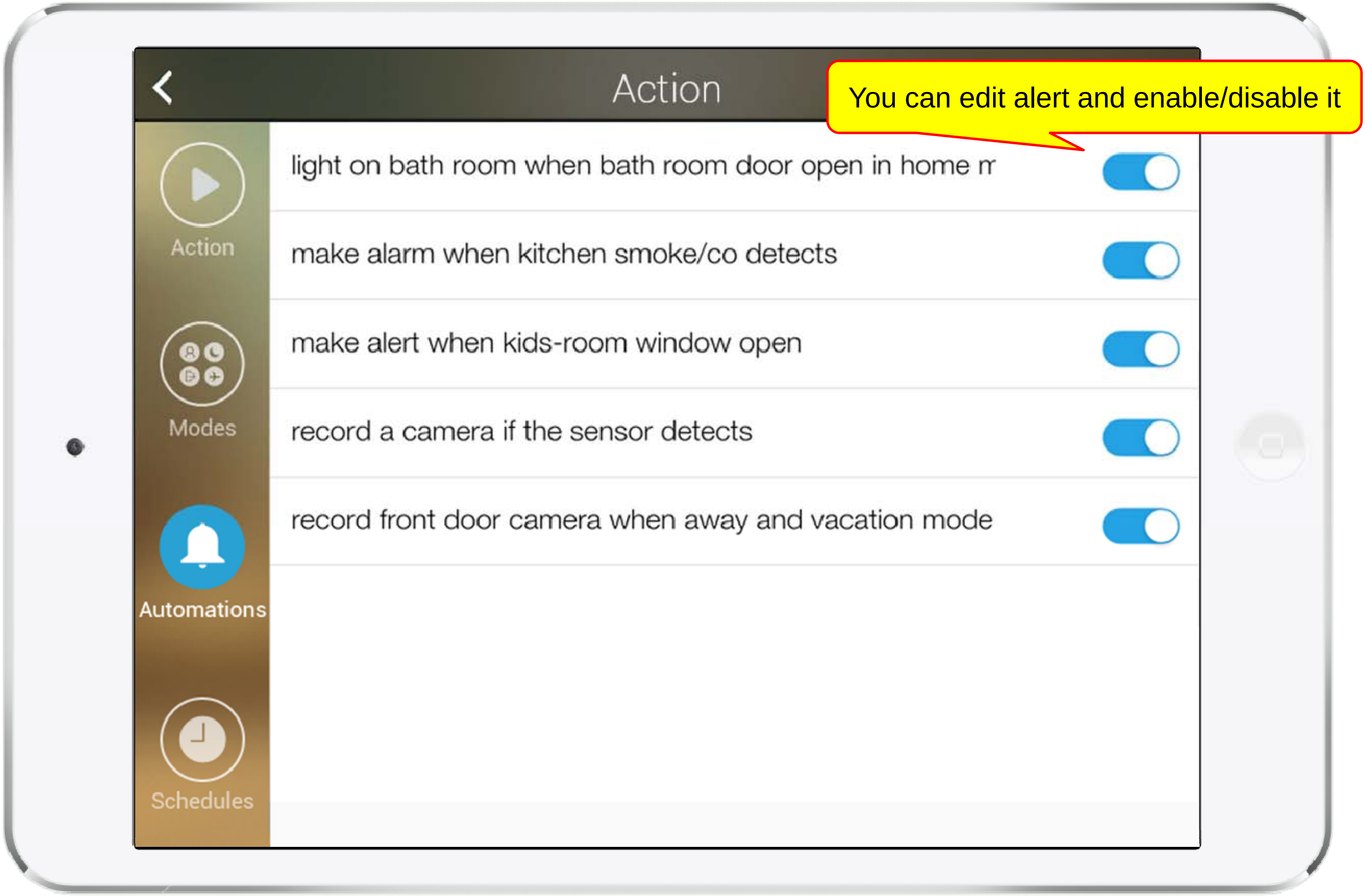
Start Action

Mode View


Action
Action
Modes
Automations
Schedules
Home Automation Modes
Home
NIGHT
AWAY
VACATION
Security Modes
DISARM
ARM-STAY
ARM-AWAY
Security Automation Modes
Security Automation

You can start and edit each mode

Alert View



Action
Action
Modes
Automations
Schedules

light on bath room when bath room door open in home m

make alarm when kitchen smoke/co detects

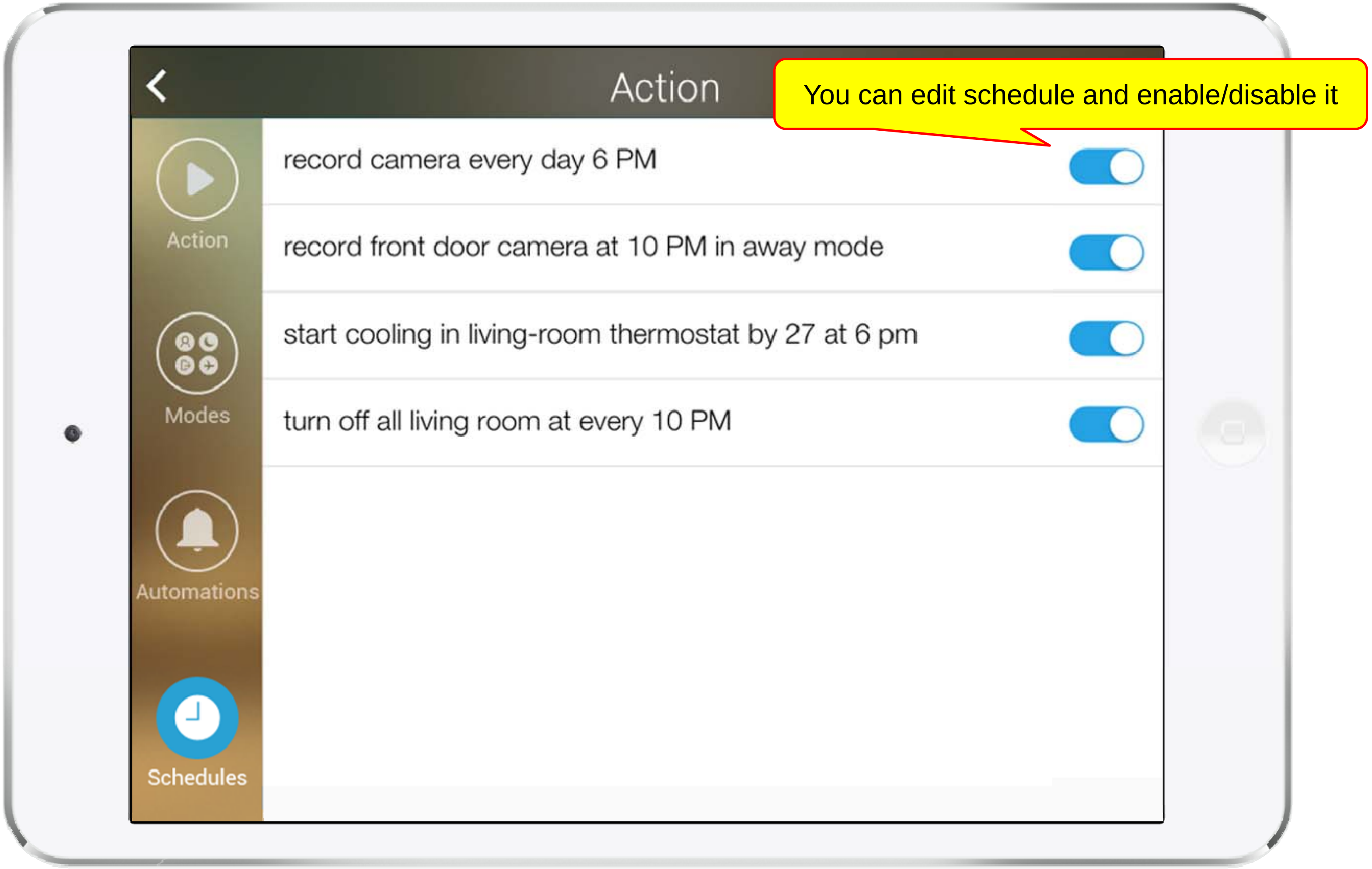
make alert when kids-room window open

record a camera if the sensor detects

record front door camera when away and vacation mode

You can edit alert and enable/disable it

Schedule View


Action
Action
Modes
Automations
Schedules

You can edit schedule and enable/disable it

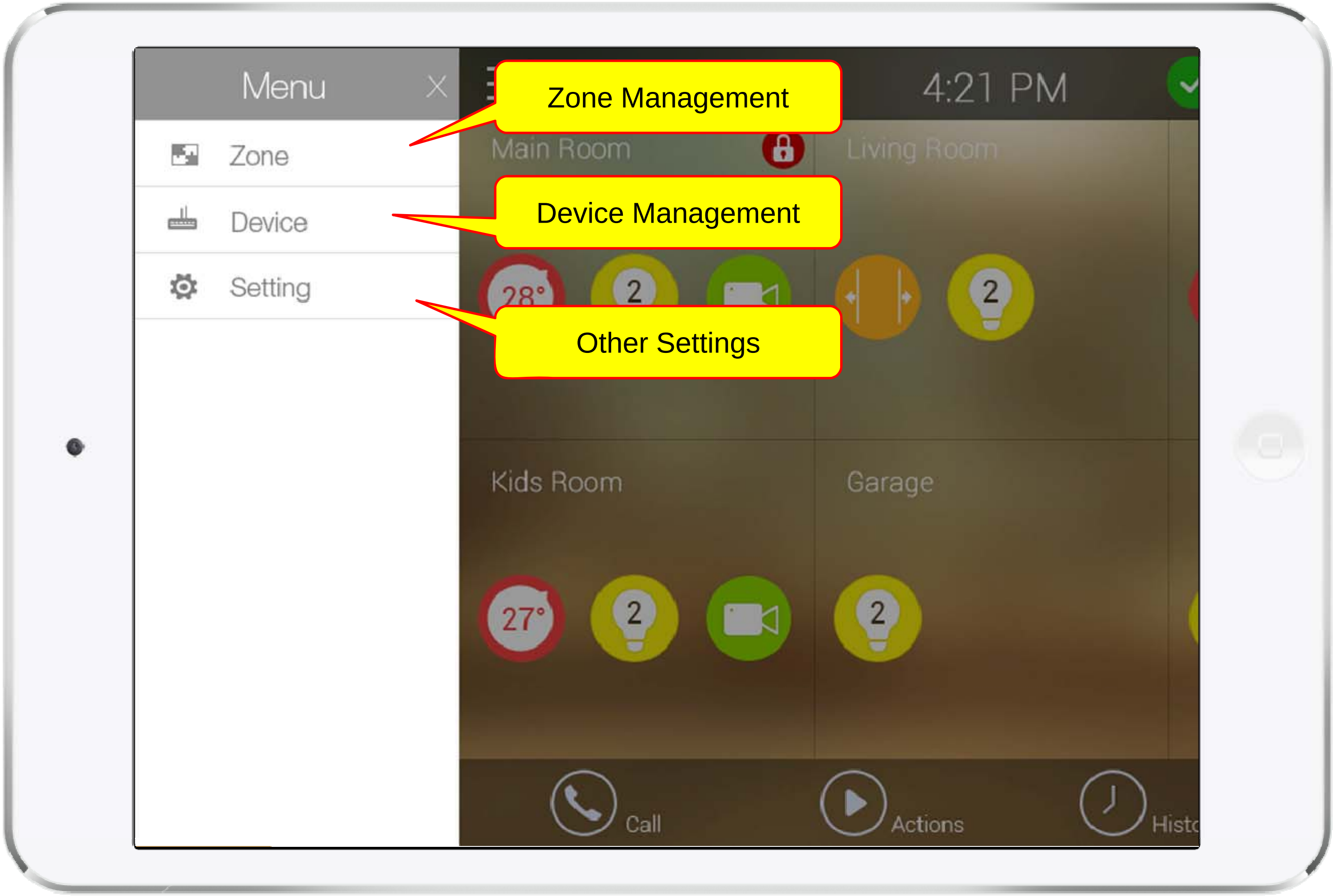
record camera every day 6 PM

record front door camera at 10 PM in away mode

start cooling in living-room thermostat by 27 at 6 pm

turn off all living room at every 10 PM

Setting Menu

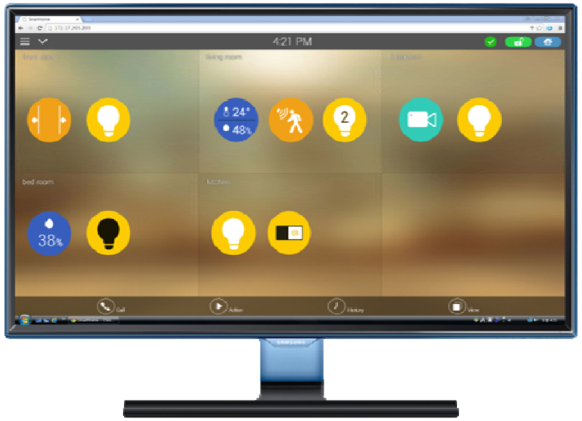

Menu
Zone
Device
Setting
4:21 PM
Main Room
Living Room
28°
2
2
Kids Room
Garage
27°
2
2
Call
Actions
Histo

Zone Management

Device Management

Other Settings

Chrome Brower based IoT (Internet of things) Software Control


4:21 PM
living room
24°
48%
2
bed room
38%
kitchen
Call
Action
History
View

Contents

- Chrome OS Support : MS-Window, Android, IOS
- Chrome Browser based Restrict IoT Service
- Android/IOS APP. based IoT Service
- Comparison Table Between Chrome Browser and Android/IOS APP.
- Chrome Browser UI Design (examples)

Chrome Browser Restrict Service

- Main View (Zone Summary)
- Armed Mode (Away, Stay, Night)
- Short View
- Zone View
- Zone Setting and Configuration
- Sensor Control View (Ex: Light Control, Thermostat, etc)
- Sensor Control View (Action, Mode, Alert, etc)

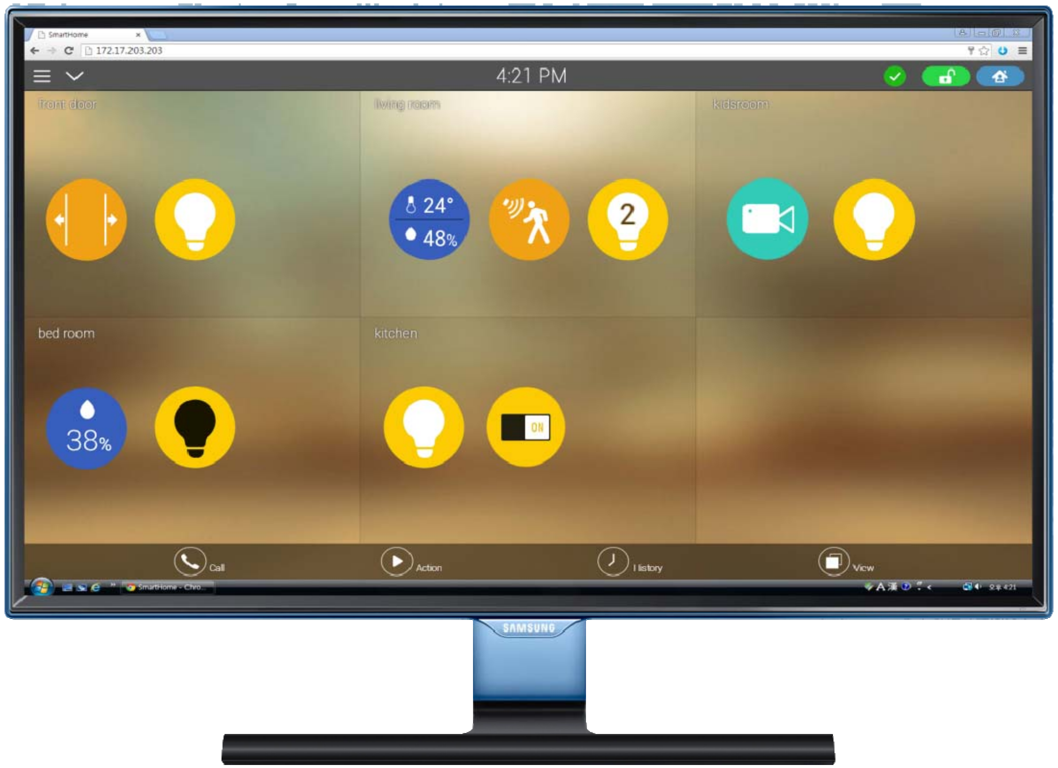
Android/IOS APP. based Smart Home Service

- Main View (Zone Summary)
- Armed Mode (Away, Stay, Night)
- Short View
- Zone View
- Zone Setting and Configuration
- IP Camera View Mode (Home, Outside Home)
- Call View (Favorite Call, Recent Call, Phone Book, etc)
- Video Call View
- Sensor Control View (Ex: Light Control, Thermostat, etc)
- Sensor Control View (Action, Mode, Alert, etc)

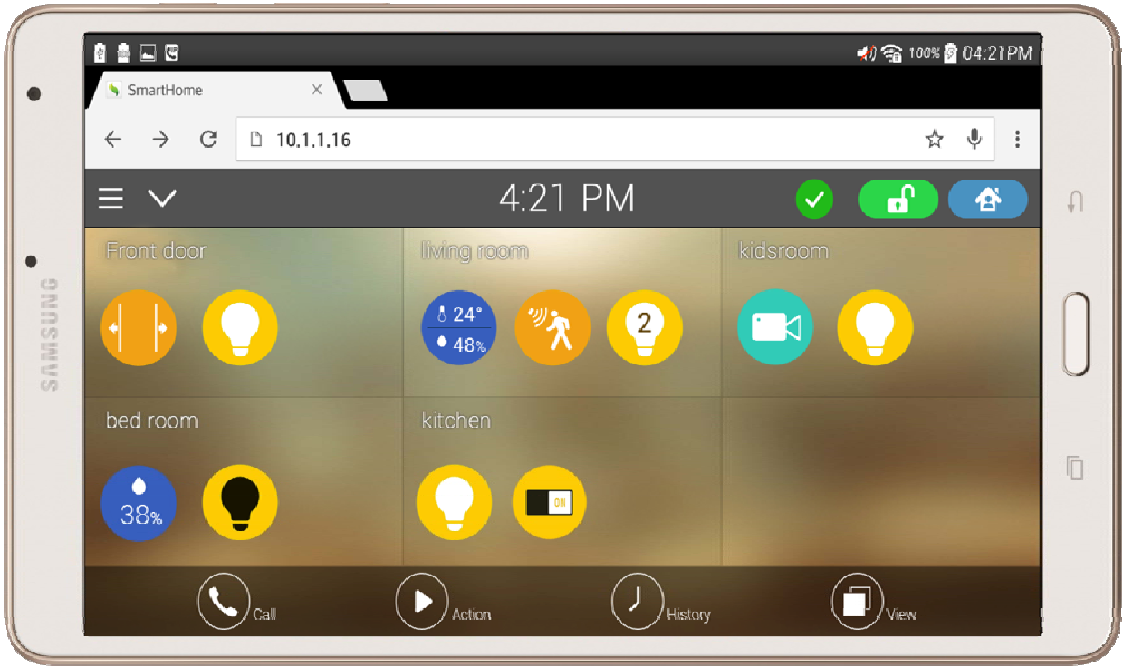
Comparison Table

Service	General Chrome Browser	AddPac Android/IOS APP.
Smart Hub Control for Sensor Devices	Main View (Zone Summary) Armed Mode (Away, Stay, Night) Short View Zone View Zone Setting and Configuration Sensor Control View (Ex: Light Control, Thermostat, etc) Sensor Control View (Action, Mode, Alert, etc)	Main View (Zone Summary) Armed Mode (Away, Stay, Night) Short View Zone View Zone Setting and Configuration Sensor Control View (Ex: Light Control, Thermostat, etc) Sensor Control View (Action, Mode, Alert, etc)
SIP Call Control Service	Not Support	Call View (Favorite Call, Recent Call, Phone Book, etc) Video Call View
RTSP based IP Camera Service	Not Support	IP Camera View Mode (Home, Outside Home)

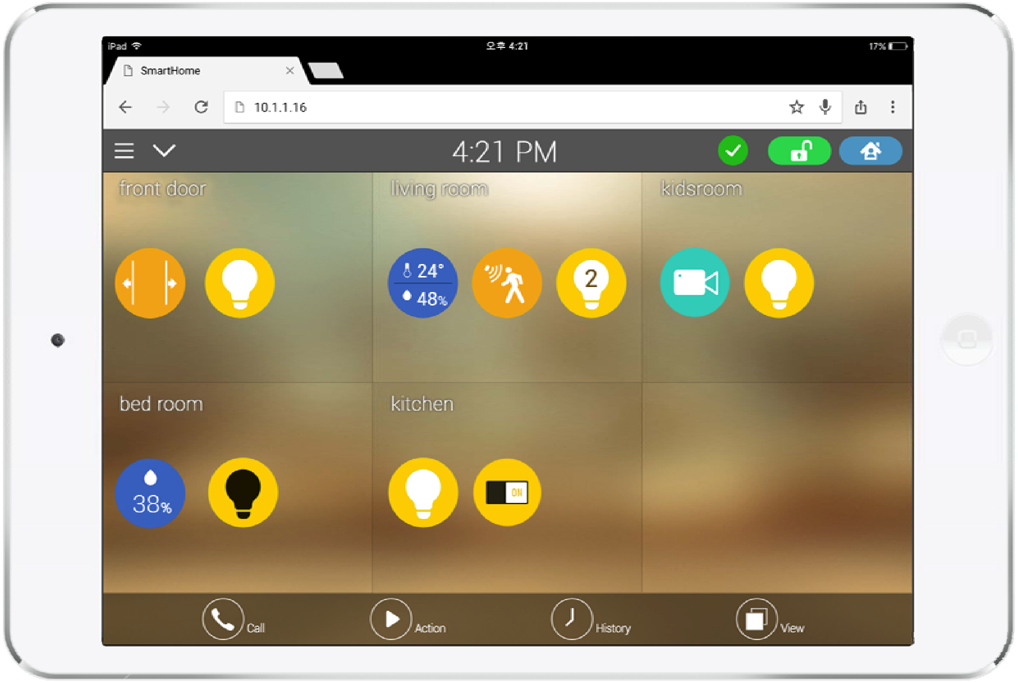
UI examples : MS-Window Chrome


SmartHome
172.17.203.203
4:21 PM
front door
living room
kidsroom
24°
48%
2
bed room
kitchen
38%
ON
Call
Action
History
View
SAMSUNG

UI examples : Android Chrome


100%
04:21PM
SmartHome
10.1.1.16
4:21 PM
Front door
living room
kidsroom
24°
48%
2
bed room
kitchen
38%
ON
Call
Action
History
View
SAMSUNG

UI examples : Apple IOS Chrome


iPad
오후 4:21
17%
SmartHome
10.1.1.16
4:21 PM
front door
living room
24°
48%
2
kidsroom
bed room
38%
kitchen
ON
Call
Action
History
View

Thank you!

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