ABB-Welcome IP
Product Introduction
Agenda

01 Overview
02 Features
03 System
04 Technical details
01 Overview
ABB-Welcome IP

Overview

Objectives

Expanding the offered portfolio above Welcome door entry system
- Increasing the attractiveness for high-riser or big compound projects
- Seamless integration in meeting the expectation of the end-customer
- Fast planning, programming and commissioning

Main advantages:
- Virtually unlimited distance
- Virtually unlimited channels
- Virtually unlimited devices
- Total integration into home system
# ABB-Welcome IP

## Overview

## Target groups

<table>
<thead>
<tr>
<th>For single-/multi-family houses</th>
<th>For high-rise buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For big compound houses</th>
<th>For small commercial buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
</tr>
</tbody>
</table>
02 Features
Door communication and unlock

3 different ways of communication and unlock function:

– House owner can directly communicate and open the door to the visitor
– The admin at the property management can open the door or talk to the visitor
– The concierge can talk to the visitor or open the door via guard unit
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Features

Call forward to owner by concierge

3 Steps for call forward:
– Visitor makes a call to concierge and talks.
– Concierge forwards the call to the designated owner, then hangs up.
– The owner answers the call and talks with visitors directly.

For high security property house, it is only allowed to call guard unit before reaching to indoor station.

If outdoor station activate 'forward to guard unit', making call from outdoor station to indoor station will forward to guard unit directly.
Screen in screen

- Do not miss any incoming call
- Screen in screen for the 2nd incoming call
  - Answer
  - Reject
  - Unlock
- 3rd incoming call is recorded as „missing call“
Instant snap shot

- Automatic picture snapshot during ringing
- Manual picture snapshot during ringing or conversation
- Outdoor station records person of each incoming call during ringing the bell
- Picture is saved on internal memory and it is able to copy to SD card
- Pictures of the person can be looked up on indoor station

Joy visited at 10:30 20th, Dec., 2015
**Room to room intercom (group / dedicated call)**

Lily, it is time for dinner.

Thanks, Mom. I will come soon.

**Apartment to apartment call (black list for privacy)**

Peter, let’s go out for fun.

Jessica, I want to go to museum.

Calling one specific room or all rooms

Calling one specific apartment
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Features

Automatic unlock

– 3 Steps for automatic unlock:
  • Owner activates automatic unlock functionality manually via indoor station.
  • Visitor makes a call to the owner.
  • Door will be open automatically after 5 seconds ring.

You do not need to open door for every visitor during your family party.

You do not need to open door for every patient during your clinic in open time.
Absent audio message for family or visitor

Mom could listen the absent audio note from indoor station after she comes back.

Visitor is able to hear the absent audio note from outdoor station when making a call to Jessica.

This is Jessica, I am on the holiday now. Please leave your message.

Mom, I go out to play with Lily in the garden.
Welcome app as virtual indoor station

- Communication with outdoor station
- Unlock
- Snapshot (picture is saved on IP-Gateway and allowed to view from app)
- Surveillance
- Available for iOS and Android

- Easy commissioning by scanning QR code
- Dynamic DNS for remote access*
Text message between indoor station and management software

Dear resident / tenants:
Lift 2 will be on maintenance at 10am -11am on this Sunday.

i.e Property manager is able to send broadcast message to dedicated / group / all indoor stations

Noted with many thanks.

i.e Resident is able to send message to property management office to book facility.
Economy access control

- Stand-alone ID/IC card reader
- In-build card reader into outdoor station
  - ID card reader
  - IC card reader
  - NFC
- In-build outdoor station keypad
  - Public password
  - Private password
- Property management software
  - Token management (create, edit, delete, etc.)
  - History and log
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Features

**Economy security surveillance**

- Private home IP camera (ONVIF*)
- Public community IP camera (ONVIF*)
- Video door bell (2nd confirmed OS)
- Outdoor station
- Gate station

It is compatible with some brands, so please verify firstly if new type IP camera will be introduced.
**Economy security alarm**

- Alarm devices can be implemented easily into the IP door communication system
  - Panic alarm
  - Smoke alarm
  - Intrusion alarm
- 8 zone input with endless extension ➔ infinite sensors can be implemented
- Property management center is monitoring everything from central units
- Local siren will be activated if alarm occurs and alert will be sent to property management software.
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Features

**Elevator control**

- Enables elevator floor access after presenting owner’s token.
- Call and authorize elevator floor access for visitor after door is released.
- Call and authorize elevator floor access for neighbor during apartment to apartment intercom.
- Call elevator before you want to go out.
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Features

**Family entertainment**

Multimedia file from SD card is able to:
- Show photos on the indoor station
- Play video on the indoor station
- Chose favorite music to define individual bell tone
- Creating individual screen saver
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System

**Smart home integration**

- Seamless integration with ABB i-bus
  - 100 objects
  - 8 scenes
  - 3 floor plans
- Seamless integration with ABB i-jia
  - 50 objects
  - 32 scenes
- Object control, e.g. light, dimmer, curtain, etc.
- Scene control
- Status display
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Features

**Intelligent community**

- functionality may need special development.
  - Bulletin
  - Free query
  - Convenient service
  - Weather forecast
  - Navigation
  - advertisement
03 System
# ABB-Welcome IP

## System

<table>
<thead>
<tr>
<th></th>
<th>Per apartment</th>
<th>Per Building</th>
<th>Public</th>
<th>Per system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Channel</td>
<td>32 (*)</td>
<td></td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Building</td>
<td></td>
<td></td>
<td>999</td>
<td></td>
</tr>
<tr>
<td>Guard unit</td>
<td></td>
<td>32</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Property management</td>
<td></td>
<td>32</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>software</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor station</td>
<td>4 (connected to public network)</td>
<td>64</td>
<td>32</td>
<td>~ 8 M</td>
</tr>
<tr>
<td>Indoor station</td>
<td>8</td>
<td></td>
<td>~ 16 M</td>
<td></td>
</tr>
<tr>
<td>Apartment</td>
<td></td>
<td>~ 2 K</td>
<td>~ 2 M</td>
<td></td>
</tr>
<tr>
<td>Access control</td>
<td>9</td>
<td>32</td>
<td>~ 9 K</td>
<td></td>
</tr>
<tr>
<td>IP camera</td>
<td>256</td>
<td>256</td>
<td>~ 256 K</td>
<td></td>
</tr>
</tbody>
</table>

Remark: * it is calculated based on 100M bandwidth
All the devices are connected to IP network

Get the power from switch directly if PoE is available from switch.

Get the power from dedicated power supply if PoE is not available.
IPP Gateway is needed for:

- Multiple indoor stations in one apartment
- Welcome app as virtual indoor station
- Network separation for high security of home devices
04 Technical details
ABB-Welcome IP

Product’s technical details

Indoor station

Features
- Large 17.8 cm (7”) color display
- 1024*600 display resolution
- Touch control screen
- 6 mechanical shortcut keys
- SD card slot
- LED indication for power, mute and busy
- Full duplex audio communication
- PoE / direct power supply
- Surface mounting (box is inclusive)
- Dimension: 216 x 153 x 25 mm
- Color: white or golden or black

Article no.:  
H82351-W White  
H82351-B Black  
H82351-G Golden
Video outdoor station with keypad

Features
- 1M pixel high definition camera
- 130° wide angle view camera
- Anti-fog camera
- 3mm stainless steel frame
- White LED light compensation
- Full duplex audio communication
- Keypad module
- Display module with IC / ID reader (Wiegand output)
- PoE / direct power supply
- 2 Locks
- Flush mounting
- IP level: IP54
- Working temperature: -40°C ~ +70°C
- Dimension: 347 x 135 x 48.5 mm
- Color: stainless steel

Article no.: H81371K-S ID reader
            H81372K-S IC reader
### ABB-Welcome IP

#### Product’s technical details

<table>
<thead>
<tr>
<th>Features</th>
<th>Article no.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1M pixel high definition camera</td>
<td>H81371P1-S 1 button</td>
</tr>
<tr>
<td>• 130° wide angle view camera</td>
<td>H81372P1-S 1 button with IC / NFC</td>
</tr>
<tr>
<td>• Anti-fog camera</td>
<td>H81371P2-S 2 button</td>
</tr>
<tr>
<td>• 3mm stainless steel frame</td>
<td>H81372P2-S 2 button with IC / NFC</td>
</tr>
<tr>
<td>• White LED light compensation</td>
<td></td>
</tr>
<tr>
<td>• Full duplex audio communication</td>
<td></td>
</tr>
<tr>
<td>• 1-/ 2- mechanical calling button</td>
<td></td>
</tr>
<tr>
<td>• Optional IC / NFC reader (High safety)</td>
<td></td>
</tr>
<tr>
<td>• PoE / direct power supply</td>
<td></td>
</tr>
<tr>
<td>• 2 Locks</td>
<td></td>
</tr>
<tr>
<td>• <strong>Flush mounting and surface mounting</strong></td>
<td></td>
</tr>
<tr>
<td>• IP level: IP54</td>
<td></td>
</tr>
<tr>
<td>• Working temperature: -40°C ~ +70°C</td>
<td></td>
</tr>
<tr>
<td>• Dimension: 274 x 135 x 48.5 mm/ Color: stainless steel</td>
<td></td>
</tr>
</tbody>
</table>

**Video outdoor station**

- **Features**
  - 1M pixel high definition camera
  - 130° wide angle view camera
  - Anti-fog camera
  - 3mm stainless steel frame
  - White LED light compensation
  - Full duplex audio communication
  - 1-/ 2- mechanical calling button
  - Optional IC / NFC reader (High safety)
  - PoE / direct power supply
  - 2 Locks
  - **Flush mounting and surface mounting**
  - IP level: IP54
  - Working temperature: -40°C ~ +70°C
  - Dimension: 274 x 135 x 48.5 mm/ Color: stainless steel
ABB-Welcome IP

Product’s technical details

**Video outdoor station (mini OS)**

**Features**
- 0.3M pixel camera
- 100° wide angle view camera
- Anti-fog camera
- Aluminum alloy frame
- Infrared light compensation
- Full duplex audio communication
- 1- / 2- mechanical calling button
- ID card reader (Basic safety)
- PoE / direct power supply
- 2 Locks
- **Surface mounting (box is inclusive)**
- IP level: IP54
- Working temperature: -40°C ~ +70°C
- Dimension: 168 x 99 x 26 mm / Color: Aluminum

**Article no.:**
- H81312P1-A 1 button with ID reader
- H81312P2-A 2 button with ID reader
### Video outdoor station (mini OS)

**Features**
- 0.3M pixel camera
- 100° wide angle view camera
- Anti-fog camera
- Aluminum alloy frame
- Infrared light compensation
- Full duplex audio communication
- 1- / 2- mechanical calling button
- ID card reader (Basic safety)
- PoE / direct power supply
- 2 Locks
- **Flush mounting (box is inclusive)**
- IP level: IP54
- Working temperature: -40°C ~ +70°C
- Dimension: 180 x 105 x 43 mm  Color: Aluminum

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**Article no.:**
- H81362P1-A 1 button with ID reader
- H81362P2-A 2 button with ID reader
Secondary outdoor station (mini OS)

Features
- 0.3M pixel camera
- 100° wide angle view camera
- Anti-fog camera
- Aluminum alloy frame
- Infrared light compensation
- Full duplex audio communication
- 1 mechanical calling button
- PoE / direct power supply
- **Flush mounting (box is inclusive)**
- IP level: IP54
- Working temperature: -40°C ~ +70°C
- Dimension: 180 x 106 x 43 mm / Color: Aluminum

Article no.: H81361P1-A 1 button
Card reader

Features
- Stainless steel frame
- ID and IC card reader
- Wiegand output
- 3 LEDs indication
- 1 actuator output
- Direct power supply
- Surface mounting (box is inclusive)
- IP level: IP44
- Working temperature: -40°C ~ +70°C
- Dimension: 125 x 120 x 25 mm
- Color: Stainless steel

Article no.: YSM14-CR+
Guard unit & Management software

Features

– 1 Guard station for concierge
  • Stainless steel desktop frame
  • 17.8 cm (7”) color display
  • Touch control screen
  • 6 mechanical shortcut keys
  • Handset / handfree communication
  • White color
  • Dimension: 332 x 239 x 127mm
– 1 installation file for property management office
  • Windows version
  • Server installation
  • Client installation

Article no.: HSM36-GU
ABB-Welcome IP

Product’s technical details

**Power supply**

Features

- AC input: AC 100-240V ~50/60Hz 1.3A
- DC output: DC 27V 3A
- Battery backup for mains failure (Battery is exclusive)
- Over-voltage/Over-current/Over-heat/Short-circuit protection
- Lightning proof
- Standard DIN RAIL (10 TE)
- IP level: IP30
- Working temperature: -40°C to +70°C
- Product dimensions: 175 x 90 x 65 mm
- Color: Grey

Article no.: YSM01-PS
**ABB-Welcome IP**

Product’s technical details

**IP Gateway**

Features
- Dual RJ45 for 2 networks connection
- 1 LED status indication
- Direct power supply
- Standard DIN RAIL (6 TE)
- IP level: IP31
- Working temperature: -25°C to +70°C
- Product dimensions: 107 x 90 x 65 mm
- Color: Grey

Article no.: H8301
**Elevator control**

**Features**
- Lift control module
  - RJ45 connection to DES bus
  - RS485 connection to relay module or 3rd party interface
  - 1 LED status indication
  - Standard DIN RAIL (4 TE)
  - IP level: IP31
  - Working temperature: -25°C to +70°C
  - Product dimensions: 71 x 90 x 65 mm
  - Color: Grey
- Relay module
  - RS485 connection to lift control module
  - IP level: IP30/ Working temperature: -25°C to +70°C
  - Product dimension: 216 x 110 x 45 mm

**Article no.:**
- YSM23-LC Lift control module
- 4825-Y Relay module