![DoorBird - Technology meets Design.]

**D21DKH**

# IP VIDEO DOOR STATION

For multi-tenant residences and buildings with up to 100 units

Display Module · Keypad Module

Designed, developed and made in Germany

# ANSWER YOUR DOOR ANYWHERE.

## HOW DOES IT WORK?

Imagine, you are not at home and your children have locked themselves out or the courier wants to deliver a parcel. With DoorBird this is no longer a problem. Every time someone rings the doorbell you will get a push notification on your smartphone or tablet. Via the DoorBird App you are not only able to talk to the visitor but also see them live in HD quality. You will never miss a visitor again. With DoorBird you are on the move and yet at home, even if a burglar rings at the door to check if someone is at home.

## SMART HOME STARTS AT THE FRONT DOOR

DoorBird is the smart solution for your house entrance. Simply connect your DoorBird IP Video Door Station to your smartphone and talk to your visitor – anywhere you are. The IP Video Door Station can be used as a stand-alone unit or can be integrated into an existing Smart Home platform. Even existing classic installations such as a door chime or an electric door opener can still be used and controlled via the DoorBird App.

## QUALITY MADE IN GERMANY

All DoorBird products are designed, developed and produced by Bird Home Automation GmbH in Berlin, Germany. We manufacture all products with the greatest care and precision, and deliver them to our customers all over the world.

### Open API
- Local interface for integration with third-party systems and SIP

### Video and audio call
- On smartphones, tablets (iOS, Android), IP and landline phones (SIP)

### Smart Transmission Mode (STM)
- Real-time audio / video communication, optimized for mobile devices via WiFi, 3G, 4G, 5G

### Smart Home & NVR compatible
- Control4, Loxone, Crestron, Synology, AVM FRITZ!Fon, URC, QNAP, RTI, ELAN, Fibaro, Bang & Olufsen and others

### Night vision
- With 12 Infrared LEDs

## Automatic door buzzer
· For use in medical offices and office environments

## HD HDTV Video
· Ultra wide-angle, hemispheric lens, 180°

## i Display Module
· Distance sensitivity on/off
· Individually configurable, e.g.: display of the resident directory, welcome message configurable

## Free visitor history
· Store still images for free, optional video recording available

## Light sensor
· For night vision mode

## Noise reduction and echo cancellation (AEC, ANR)

## Individual action schedules, e.g.:
· RFID card „abc" has only access on Wednesday from 9 am until 11 am
· 4D motion sensor switches on external lamp between 9 pm and 6 am

## Two freely configurable bi-stable switching relays
· Two doors or gates can be controlled via App
· Status configurable via App: temporary or permanent circuit

## Keypad Module
· Configurable via App
· Individual PIN codes
· Individual events (e.g.: a relay switch, push notification, ...)

## Geofencing
· Automatic door and gate opening when returning home

## RFID card reader
· Configurable remotely via App (e. g. time frame)

## Easy connection to the network
· Connection via a network cable or a bell wire (with a 2-wire transformer) to a RJ45 socket (PoE, network data)

## 4D Motion sensor with 4D technology
· Distance up to 10 m adjustable via App (interval: 1 m)
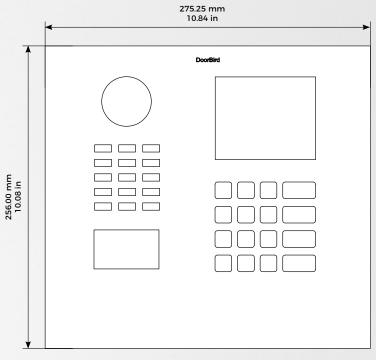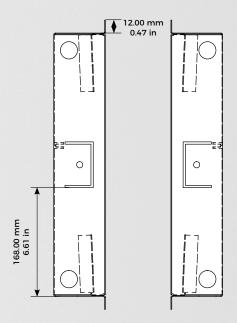
## Microphone
· Clear voice transmission

## GENERAL

| | |
|---|---|
| Front panel | 3 mm (0.12 in)<br>Available in brushed stainless steel<br>V2A / V4A |
| Mounting housing (backbox) | Stainless steel |
| Mounting type | Flush-mounted, surface-mounting housing sold separately |
| Power supply | 15 V DC (max. 15 W) or Power over Ethernet (PoE 802.3af Mode-A) |
| Display Module | 3.5" LCD (no touch function), illuminated, for the display of a 2-line free text and the name directory (max. 100 entries) |
| Keypad Module | 16 keys, illuminated, configurable via App, e.g.<br>· Individual PIN codes<br>· Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) request)<br>· Individual schedules<br>· Up to 100 PIN codes manageable |
| Weight | 3043 g |
| Connectors | · RJ45, for LAN/PoE<br>· Bi-stable latching relay #1, max. 24 V DC/AC, 1 Ampere, e.g. for electric door opener<br>· Bi-stable latching relay #2, max. 24 V DC/AC, 1 Ampere, e.g. for electric door opener<br>· External input for external door opener button (potential-free)<br>· 15 V DC input (+, -), max. 15 W<br>· Relays can be expanded / detached with DoorBird I/O Door Controller |
| Weather-proof | Yes, IP65 |
| Approvals | IP65, CE, FCC, IC, RoHS, IK08, REACH, IEC/EN 62368, IEC/EN 62471 |
| Dimensions | 256 x 275.25 x 48.75 mm (H x W x D)<br>10.08 x 10.13 x 1.92 in (H x W x D) |
| Operating conditions | -25 to +55˚C / -13 to 131˚F<br>Humidity 10 to 85 % RH<br>(non-condensing) |
| Scope of delivery | 1x Main Electrical Unit<br>1x Front panel<br>1x Flush-mounting housing (backbox)<br>1x Power supply unit (mains adaptor) with four country-specific outlet adaptors (110 - 240 V AC to 15 V DC)<br>1x RFID key fob<br>1x Screwdriver<br>1x Quickstart guide with Digital Passport<br>1x Installation manual<br>1x Small parts |
| Warranty | see www.doorbird.com/warranty |

## CURRENT SYSTEM REQUIREMENTS

| | |
|---|---|
| System requirements | Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet<br><br>Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fiber optic, no socks or proxy server<br><br>Network: Ethernet Network, with DHCP |
| Recommended installation height | Camera lens should be at a min. height of 145 cm (57 in). Before the installation please determine your optimal installation height. |

## VIDEO

| | |
|---|---|
| Camera | HDTV 720p, dynamic (VGA – HDTV) |
| Lens | High-end ultra wide-angle hemispheric lens 180˚ (D), 140˚ (H), 100˚ (V), straightened, IR-capable |
| Night-vision | Yes, light sensor, automatic IR-cut filter, 12 Infrared LEDs (850 nm) |

## AUDIO

| | |
|---|---|
| Audio components | Speaker and microphone, noise reduction and echo cancellation (ANR, AEC) |
| Audio streaming | Two-way, full duplex |

## NETWORK

| | |
|---|---|
| Ethernet | RJ45 jack, PoE 802.3af Mode-A, 10/100 Base-T |
| Supported protocols | HTTP, HTTPS, SSL/TLS, Bonjour, DNS, RTSP, RTP, TCP, UDP, RTCP, ICMP, DHCP, ARP, SIP, DTMF (RTP [RFC-2833], SIP INFO [RFC-2976]), STM |

## MOTION SENSOR

| | |
|---|---|
| Type | Active |
| Detection angle | 54˚ (H), 70˚ (V) |
| Range | Since a "Display Module" is connected to the Main electrical unit, the range is limited to 1 m (3.3 ft). |
| Technology | 4D. Based on multiple integrated sensors and algorithms, e.g. Radio Frequency Energy (RFE) |

## RFID

| | |
|---|---|
| Type | Active Reader Passive Tag (ARPT) system |
| Standard | ISO/IEC 18000-2:2009 Part 2, EM4100, EM4102 |
| Frequency | 125 KHz |
| Range | 0 - 3 cm, depends on environment |
| Antenna | Internal |
| Compatible Transponder | RFID key fobs, sold separately, see www.doorbird.com/buy<br><br>Up to 100 tags manageable |
| Configuration | Via App, e.g.<br>· Tag (add, delete)<br>· Individual events (e.g. switch a relay, SIP call [audio/video], HTTP(s) notification)<br>· Individual schedules |

## INTEGRATED WIRELESS MODULES

| | |
|---|---|
| RFID | 125 KHz |
| Sensor | 24 GHz, can be disabled |

## THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

| | |
|---|---|
| Partnerintegrations | see www.doorbird.com/connect |
| API | see www.doorbird.com/api |
| Simultaneous video streams | One, for event-based and continuous recording |

## OPTIONAL ACCESSORIES

| | |
|---|---|
| Sold separately | see www.doorbird.com/buy |

Special remarks:
Assembly requires professional skills or a technician.

**DoorBird**
Technology meets Design.

Front panel material thickness: 3.0 mm (0.12 in)

275.25 mm
10.84 in

256.00 mm
10.08 in

Front panel

12.00 mm
0.47 in

168.00 mm
6.61 in

Flush-mounting housing (backbox)

269.75 mm
10.62 in

247.25 mm
9.73 in

252.50 mm
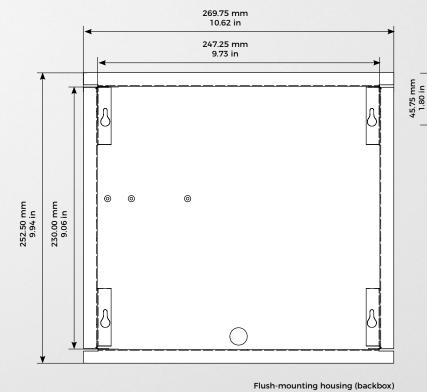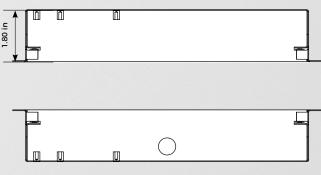9.94 in

230.00 mm
9.06 in

45.75 mm
1.80 in

Flush-mounting housing (backbox)

Flush-mounting housing (backbox)