



DoorBird  
Technology meets Design.



**D21 DKV**

## 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 delivers a package. With DoorBird this is no longer a problem. Each time someone rings the doorbell you get a push notification on your smartphone or tablet. You can then not only talk to the visitor but also see him in HD quality. You will never miss a visitor again. With DoorBird you are on the go and still at home, even if a burglar presses the doorbell to check if someone is at home.

## SMART HOME STARTS AT THE FRONT DOOR

DoorBird is the smart solution for your door entrance. 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 and gate opener can still be used and controlled via the App.

## QUALITY MADE IN GERMANY

DoorBird is designed, developed and produced in Berlin, Germany. DoorBird's "Made in Germany" is not only a motto but a philosophy. All DoorBird IP Video Door Stations are manufactured and tested in Berlin to guarantee the highest quality, longevity and customer satisfaction.

## ADVANTAGES



### Open API

- Local interface for the integration with third-party systems and SIP



### Video and audio call

- On smartphones and tablets (iOS, Android) or landline phones (SIP)



### Smart Transmission Mode (STM)

- Real-time audio / video communication, optimized for mobile devices via WiFi, 3G, 4G, 5G



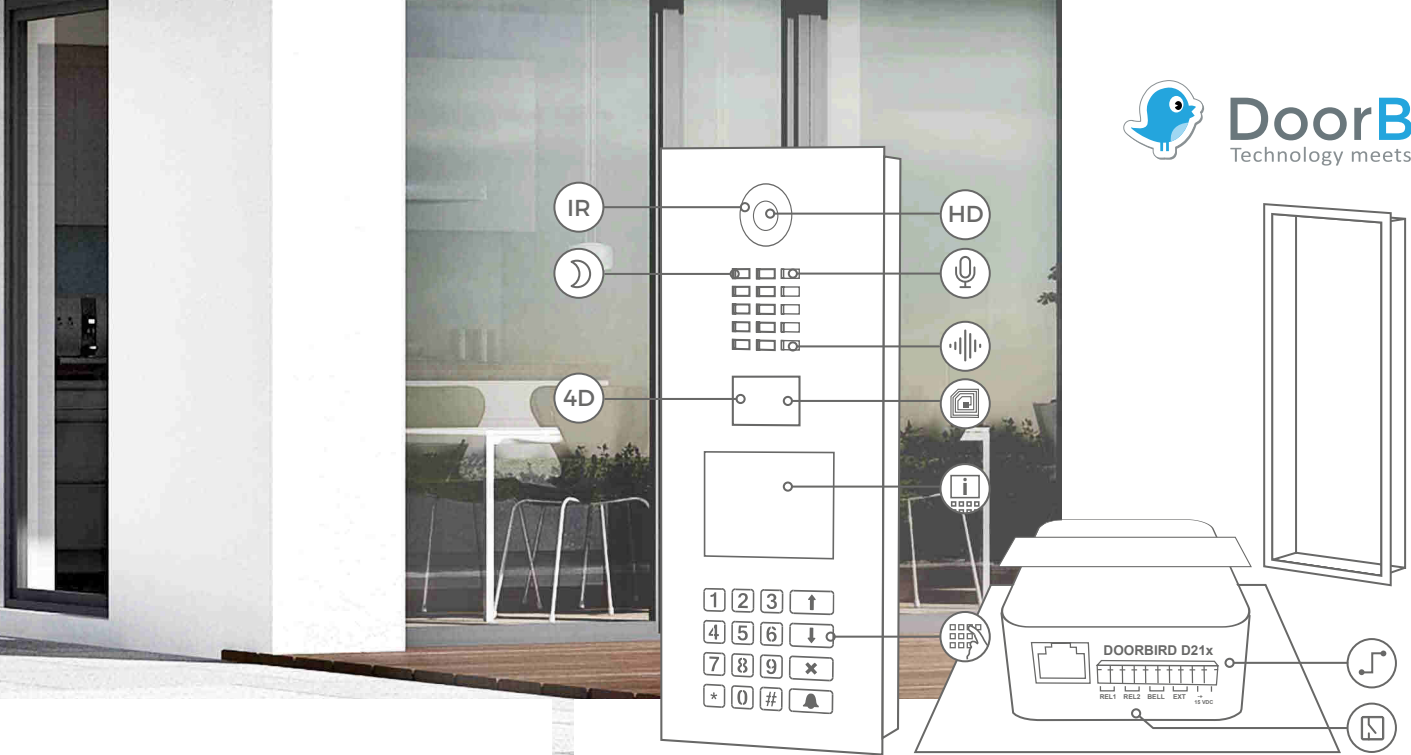
### Smart Home & ONVIF compatible

- Control4, Loxone, Crestron, Synology, QNAP, AVM FRITZ!fon, URC, RTI, ELAN, Fibaro, Bang & Olufsen and others



### Individual time and action plans, e.g.:

- RFID card „abc“ has only admission on Wednesday from 9 am until 11 am
- 4D motion sensor switches on external lamp between 9 pm and 6 am



**Automatic door opener**

- For use in medical offices and office environments



**Free cloud recording**

- Can be optionally activated for visitor history



**Geofencing**

- Automatic door and gate opening when returning home



**Burglary prevention**

- Prevents more break-ins than an alarm system



**Receive packages at any time**

- Direct the delivery man e.g. to the neighbor or open the garage door via smartphone



**Night vision**

- With 12 IR LEDs



**Light sensor**

- For night vision mode



**Motion sensor with 4D technology**

- Distance up to 10 m adjustable via App (interval: 1 m)



**HDTV Video**

- Ultra-wide-angle, hemispheric lens, 180°



**Echo and noise suppression (AEC, ANR)**



**RFID card reader**

- Configurable remotely via App (e. g. schedules)



**Display Module**

- Distance Sensitivity On/Off
- Individually configurable, e.g.: Display of the resident directory, Various status displays



**Keypad Module**

- Configurable via App
- Individual PIN Codes
- Individual events (e.g.: a relay switch, push notification, ...)



**Easy connection to the network**

- Connection via RJ45 socket or bell wire via 2-wire transformer (PoE, network data)



**Two freely configurable bi-stable switching relays**

- Control two doors or gates via App
- Status configurable via App: Temporary or permanent circuit



## GENERAL

Front panel	3 mm (0.12 in) Available in brushed stainless steel 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. <ul style="list-style-type: none"> <li>Individual PIN codes</li> <li>Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) request)</li> <li>Individual schedules</li> <li>Up to 100 PIN codes manageable</li> </ul>
Weight	2608 g
Connectors	<ul style="list-style-type: none"> <li>RJ45, for LAN/PoE</li> <li>Bi-stable latching relay #1, max. 1-24 V DC/V AC, 1 Ampere, e.g. for electric door opener</li> <li>Bi-stable latching relay #2, max. 1-24 V DC/V AC, 1 Ampere, e.g. for electric door opener</li> <li>External input for external door opener button (potential-free)</li> <li>15 V DC input (+, -), max. 15 W</li> <li>Relays can be expanded / detached with DoorBird I/O Door Controller</li> </ul>
Weather-proof	Yes, IP65
Approvals	CE, IC, FCC, RoHS, IP65, IK08
Dimensions	402 x 156 x 48.75 mm (H x W x D) 15.83 x 6.14 x 1.92 in (H x W x D)
Operating conditions	-25 to +55°C / -13 to 131°F Humidity 10 to 85 % RH (non-condensing)
Scope of delivery	<ul style="list-style-type: none"> <li>1 x Main Electrical Unit</li> <li>1 x Front panel</li> <li>1x Flush-mounting housing (backbox)</li> <li>1x Power supply unit (mains adaptor) with four country-specific outlet adaptors (110 - 240 V AC to 15 V DC)</li> <li>1 x RFID key fob</li> <li>1x Screwdriver</li> <li>1x Quickstart guide with Digital Passport</li> <li>1x Installation manual</li> <li>1x Small parts</li> </ul>
Warranty	see <a href="http://www.doorbird.com/warranty">www.doorbird.com/warranty</a>

## CURRENT SYSTEM REQUIREMENTS

System requirements	<p>Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet</p> <p>Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fiber optic, no socks or proxy server</p> <p>Network: Ethernet Network, with DHCP</p> <p>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.</p>
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## VIDEO

Camera	HDTV 720p, dynamic (VGA - HDTV)
Lens	High-end ultra wide-angle hemispheric lens 180° horizontal, 90° vertical, straightened, IR-capable
Night-vision	Yes, light sensor, automatic IR-cut filter, 12 IR-LEDs (850 nm)

## AUDIO

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

## NETWORK

Ethernet	RJ45 jack, PoE 802.3af Mode-A, 10/100 Base-T
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## MOTION SENSOR

Type	Active
Detection angle	54° horizontal, 70° vertical
Range	1 - 10 m (3.3 - 32.9 ft), depends on environment, configurable in 1 m (3.3 ft) steps.
Technology	4D. Based on multiple integrated sensors and algorithms, e.g. Radio Frequency Energy (RFE)
Configuration	<p>Via App, e.g.</p> <ul style="list-style-type: none"> <li>Range (1 - 10 m / 3.3 - 32.9 ft)</li> <li>Movement direction (coming, leaving, both)</li> <li>Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) notification)</li> <li>Individual schedules</li> </ul>

## 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 <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a>
Configuration	<p>Up to 100 tags manageable</p> <p>Via App, e.g.</p> <ul style="list-style-type: none"> <li>Tag (add, delete)</li> <li>Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) notification)</li> <li>Individual schedules</li> </ul>

## INTEGRATED WIRELESS MODULES

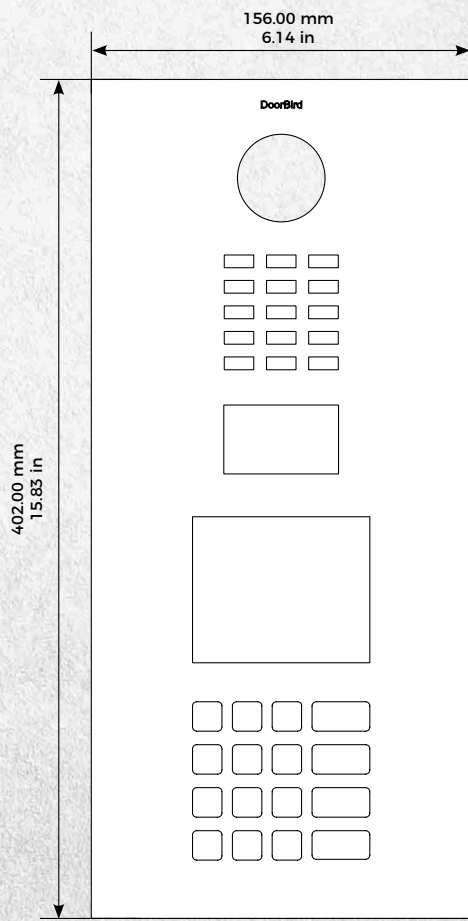
RFID	125 KHz
Sensor	24 GHz, can be disabled

## OPTIONAL ACCESSORIES

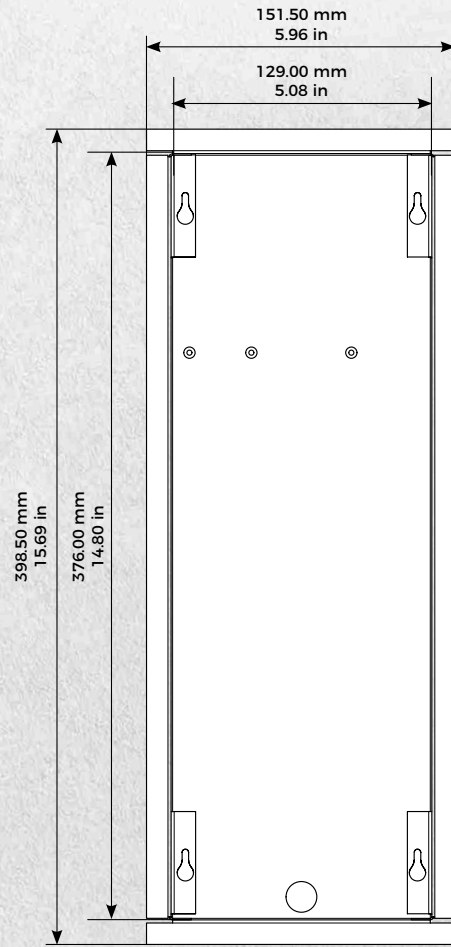
Sold separately	see <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a>
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Special remarks:  
Assembly requires professional skills or a technician.

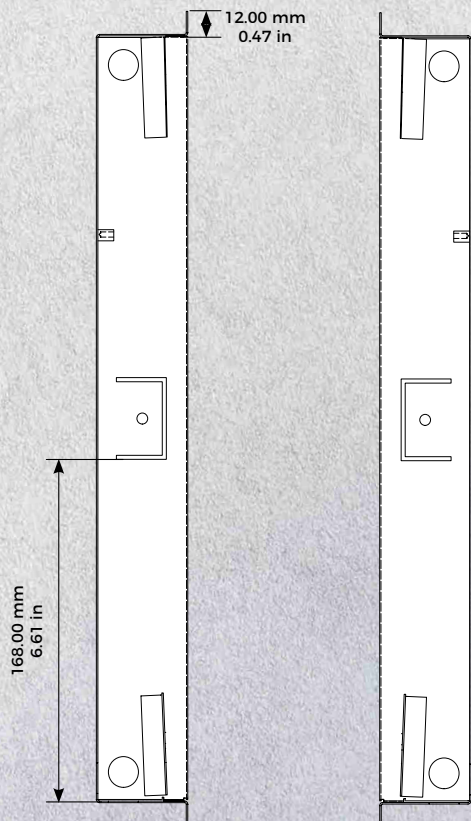
Front panel material thickness: 3.0 mm (0.12 in)



Front panel



Flush-mounting housing (backbox)



Flush-mounting housing (backbox)

Flush-mounting housing (backbox)



Flush-mounting housing (backbox)