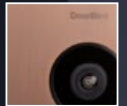




5 MP  
Camera



RFID



PoE



Wiegand



Bluetooth

# D22DKH IP VIDEO DOOR STATION

For multi-tenant residences and buildings with up to 500 units  
Display module · Keypad module



# ANSWER YOUR DOOR ANYWHERE.

## HOW DOORBIRD WORKS: GREATER CONVENIENCE AND SECURITY – ANYTIME, ANYWHERE.

With DoorBird, you're always in the loop, whether you're at home or on the go. As soon as someone rings the doorbell, you'll receive a push notification on your smartphone or your DoorBird IP video indoor station. Thanks to the DoorBird app, you can see visitors in HD quality, speak with them in real time, and open the door if needed.

You can respond immediately even if deliveries arrive while you're away or if someone checks to see if you're home. With DoorBird, you'll never miss an important interaction and will always stay in control of your entryway – conveniently, securely, and from anywhere.

## 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 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 Group in Berlin, Germany. We manufacture all products with the greatest care and precision, and deliver them to our customers all over the world.

## SOPHISTICATED TECHNOLOGY & EASY INSTALLATION

- Connection via network cable (PoE) or bell wire (with 2-wire converter)
- RFID reader, keypad and display configurable remotely via App
- Display with proximity-based automatic on/off function
- Echo and noise cancellation for clear communication
- Real-time audio/video transmission, optimized for mobile devices via WiFi, 3G, 4G, 5G (STM)
- Access via smartphone, tablet, SIP phone or FRITZ!Fon
- 12 V DC @ 0.48 A power output for electric door opener
- Easy upgrade of existing D21x installations by replacing the main electrical unit





**HD**  
5 MP camera & HD video,  
HDR  
Ultra-wide-angle, 180°  
hemispheric lens

 **Wide range of interfaces**  
OSDP, RS-485, Wiegand

 **125 kHz & 13.56 MHz RFID readers**  
Can be configured remotely via app or webadministration, e.g., time slots

 **Bluetooth Low Energy (BLE)**  
For access control, compatible with DoorBird Bluetooth Keyfob

 **Display and keypad**  
Remotely configurable and proximity-sensitive on/off switching

 **Power supply for door openers**  
12 V DC @ 0.48A current output for door opener

## SECURITY AT THE HIGHEST LEVEL

- 5 MP camera with 180° ultra-wide-angle lens
- 4D motion sensor with adjustable range (up to 10 m)
- Intelligent event control (e.g., light activation on motion)
- Night vision with infrared LEDs
- Light sensor for automatic night mode






## SEAMLESS SMART HOME & SIP INTEGRATION

- Stand-alone operation or full system integration
- Smart home & NVR compatible
- Compatible with KNX, Crestron, Control4, Loxone, Gira, Home Assistant, Nice, RTI, Homematic, Yale, Nuki, ASSA ABLOY Accentra/Access, Bang & Olufsen, FRITZ!Fon, Synology, QNAP and many more
- Easy connection to smart locks or electric door openers
- Open API for integration into third-party and SIP systems
- Interfaces for Wiegand, OSDP, RS485

## INTELLIGENT ACCESS CONTROL

- Geofencing: automatic door/gate opening when returning home
- Door opener automation - ideal for offices and medical practices
- Two freely configurable relays for doors or gates
- Individual time and action plans, e.g., for access authorization or motion detection

### Access Solutions

-  **PIN Code**
-  **Bluetooth®**
-  **RFID (125 kHz & 13.56 MHz)**
-  **App Key**
-  **Integration of external readers**

## TECHNICAL DATA

### GENERAL

Front panel	3 mm (0.12 in) For materials and colors see material board and Online Shop.
Mounting type	Flush- or surface-mounted, product-dependent
Display Module	3.5" LCD (no touch function), illuminated, for the display of a 2-line free text and the name directory (max. 500 entries)
Keypad Module with 16 keys	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 3000 PIN codes manageable</li> </ul>
Power supply	Power over Ethernet (PoE 802.3at Mode A/B)
Weight	2100 g
Connectors	<ul style="list-style-type: none"> <li>RJ45, for LAN/PoE</li> <li>Bistable self-holding switching relay #1 (NO/COM/NC), max. 24 V DC/AC, 1 ampere, e.g., for electric door openers</li> <li>Bistable self-holding switching relay #2 (NO/COM/NC), max. 24 V DC/AC, 1 ampere, e.g., for electric door openers</li> <li>External Input #1</li> <li>External Input #2</li> <li>Relays can be expanded or relocated using the DoorBird I/O Door Controller.</li> <li>1x USB Type-C module connector (touch display)</li> <li>12 V DC @ 0.48 A output, e.g., for an electric door opener</li> <li>RS485, Wiegand, OSDP</li> </ul>
Protection Class	IP65, IK08
Approvals	CE, FCC, IC, RoHS, REACH, WEEE, IEC/EN 62368, IEC/EN 62471
Dimensions	256 x 275,25 x 48,75 mm (H x W x D) 10.08 x 10.13 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>1x Main electrical unit</li> <li>1x Front panel</li> <li>1x Mounting housing (only available in selected countries)</li> <li>1x 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>
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, 5 Megapixel, 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, 2 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 802.3at Mode A/B, 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, WebRTC

### MOTION SENSOR

Type	Active
Detection angle	54° (H), 70° (V)
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>

### 125 KHZ RFID READER

Type	Active Reader Passive Tag (ARPT) System
Standard	ISO/IEC 18000-2:2009 Part 2, EM4100, EM4102
Frequency	125 kHz
Range	0 - 3 cm (0.118 in), 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> Up to 3000 tags can be managed.
Configuration	<p>Via App, for example</p> <ul style="list-style-type: none"> <li>Tag (add/delete)</li> <li>Custom events (e.g., triggering a relay, SIP call [audio/video], HTTP(s) notification)</li> <li>Individual schedules</li> </ul>

### 13.56 MHZ RFID READER

Type	Active Reader Passive Tag (ARPT) System
Standard	UID (CSN) from: MIFARE Classic®, MIFARE DESFire® EV1 and EV2, ISO14443A, ISO14443B, ISO15693, NFC® (HCE support required)
Frequency	13.56 MHz
Range	0 - 3 cm (0.118 in), 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> Up to 3000 tags manageable
Encryption	Requires a DoorBird Cloud Pro or DoorBird Cloud Enterprise license.
Configuration	<p>Via App, for example</p> <ul style="list-style-type: none"> <li>Tag (add/delete)</li> <li>Custom events (e.g., triggering a relay, SIP call [audio/video], HTTP(s) notification)</li> <li>Individual schedules</li> </ul>

### OSDP

OSDP	Hardware ready, enabled later on with software update
------	---

### RS485

RS485	Hardware ready, enabled later on with software update
-------	---

### WIEGAND

Direction	Input, output: Hardware ready, enabled later on with software update
Supported protocols	26, 30, 31, 34, and 44 bits
Supported data transmission	125 kHz RFID transponders, 13.56 MHz RFID transponders, keypad PIN codes

Maximum cable length	Max. 150 m (492 ft)
Voltage	When no data is being transmitted, both DATA0 and DATA1 are pulled up to the „high“ voltage level, +5 V DC. The interface is electrically isolated.
Configuration	Via App, e.g., log and interface on/off

#### INTEGRATED WIRELESS MODULES

RFID	125 KHz, 13.56 MHz, can be disabled
Sensor	24 GHz, can be disabled
Bluetooth	Bluetooth Low Energy (BLE), compatible with DoorBird Bluetooth Keyfob Remote A8007

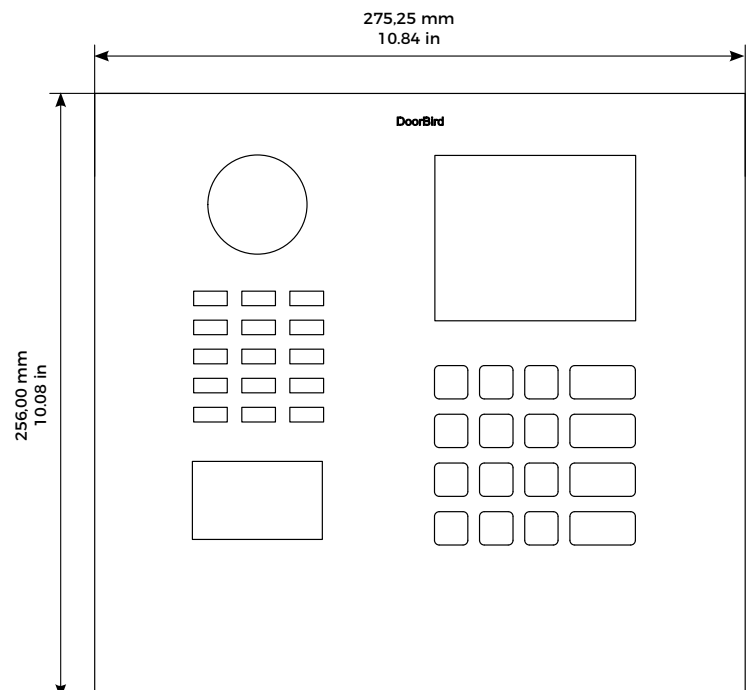
#### THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

Partner integrations	See <a href="http://www.doorbird.com/integrations">www.doorbird.com/integrations</a>
API	See <a href="http://www.doorbird.com/api">www.doorbird.com/api</a>
Simultaneous video streams	One, for event-based and continuous recording

#### OPTIONAL ACCESSORIES

Sold separately	<ul style="list-style-type: none"> <li>• Surface-mount housing, flush-mount housing, protective hood</li> <li>• Optionally available with hearing loop; incl. PMR symbols</li> <li>• More at: <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a></li> </ul>
-----------------	---

Front panel material thickness: 3,0 mm (0.12 in)



Special remarks: Assembly requires professional skills or a technician.