

**D21 DKV**

## IP VIDEO DOOR STATION

For multi-tenant residences and buildings with up to 500 units  
Display Module • Keypad Module

# ANSWER YOUR DOOR ANYWHERE.



## ADVANTAGES

### 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 can talk to visitors and 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 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.



#### 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, Nice, Fibaro, Bang & Olufsen and others





#### Night vision


- With 12 Infrared LEDs




-  **Automatic door buzzer**
- For use in medical offices and office environments


-  **Light sensor**
- For night vision mode

-  **Display Module**
- Distance sensitivity on/off
  - Individually configurable, e.g. display of the resident directory, welcome message


-  **Individual action schedules, e.g.:**
- RFID card "abc" has only access on Wednesday from 9 am until 11 am


-  **RFID reader**
- Configurable remotely via App (e.g. time frame)


-  **Noise reduction and echo cancellation (AEC, ANR)**


-  **Geofencing**
- Automatic door and gate opening when returning home

- HD** **HDTV video**
- Ultra wide-angle, hemispheric lens, 180°

-  **Keypad Module**
- Configurable via App
  - Individual PIN codes
  - Individual events (e.g. trigger a relay, push notification, ...)

-  **Easy connection to the network**
- Connection via a network cable or bell wire via 2-Wire Ethernet PoE+ Converter DoorBird A1072 (PoE, network data)

-  **Microphone**
- Clear voice transmission

-  **Two freely configurable bistable switching relays**
- Two doors or gates can be controlled via App
  - Status configurable via App: temporary or permanent circuit

GENERAL	
Front panel	3 mm (0.12 in) For materials and colors see material board and Online Shop.
Mounting type	Flush- or surface-mounted, 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. 500 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 500 PIN codes manageable</li> </ul>
Weight	1988 g
Connectors	<ul style="list-style-type: none"> <li>• RJ45, for LAN/PoE</li> <li>• Bistable latching relay #1, max. 24 V DC/AC, 1 A, e.g. for electric door opener</li> <li>• Bistable latching relay #2, max. 24 V DC/AC, 1 A, e.g. for electric door opener</li> <li>• External input for external door opener button</li> <li>• 15 V DC input (+, -), max. 15 W</li> <li>• Relays can be expanded / detached with DoorBird I/O Door Controller</li> </ul>
Protection class	IP65, IK08
Approvals	CE, FCC, IC, UKCA, RoHS, REACH, WEEE, IEC/EN 62368, IEC/EN 62471, UL 62368-1
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	1x Main Electrical Unit 1x Front panel 1x RFID key fob 1x Screwdriver 1x Quickstart guide with Digital Passport 1x Installation manual 1x Small parts
Warranty	see <a href="http://www.doorbird.com/warranty">www.doorbird.com/warranty</a>

CURRENT SYSTEM REQUIREMENTS	
System requirements	Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet  Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fiber optic, no socks or proxy server  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 <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a>  Up to 500 tags manageable
Configuration	Via App, e.g. <ul style="list-style-type: none"> <li>• Tag (add, delete)</li> <li>• Individual events (e.g. switch a relay, SIP call [audio/video], HTTP(s) notification)</li> <li>• Individual schedules</li> <li>• RFID history available for 60 minutes in the app</li> </ul>

INTEGRATED WIRELESS MODULES	
RFID	125 KHz
Sensor	24 GHz, can be disabled

THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)	
Partnerintegrations	see <a href="http://www.doorbird.com/connect">www.doorbird.com/connect</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>• Power supply unit (mains adaptor) with 4 country-specific outlet adaptors (100 - 240 V AC to 15 V DC) - EAN 4260423867314</li> <li>• Surface-mounting housing, flush-mounting housing, Protective-Hood</li> <li>• See <a href="http://www.doorbird.com/buy">www.doorbird.com/buy</a></li> </ul>

Special remarks:  
Assembly requires professional skills or a technician.

# TECHNICAL DRAWINGS

Front panel material thickness: 3.0 mm (0.12 in)

