



D21 DKH

IP VIDEO DOOR STATION

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



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 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.



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

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.



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°



Display Module

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



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



Light sensor

- For night vision mode



Noise reduction and echo cancellation (AEC, ANR)



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.: trigger a relay, push notification, ...)



Geofencing

- Automatic door and gate opening when returning home



RFID reader

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



Easy connection to the network

- Connection via a network cable or bell wire via 2-Wire Ethernet PoE Converter "DooBird A1071" (PoE, network data)



Motion sensor with 4D technology

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



Microphone

- Clear voice transmission

WE SECURE YOUR LIFE



TECHNICAL SPECIFICATIONS

GENERAL

Front panel	3 mm (0.12 in) Available in brushed stainless steel V2A / V4A and with Bronze-Finish, 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. • Individual PIN codes • Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) request) • Individual schedules • Up to 100 PIN codes manageable
Weight	3043 g
Connectors	• RJ45, for LAN/PoE • Bistable latching relay #1, max. 24 V DC/AC, 1 Ampere, e.g. for electric door opener • Bistable latching relay #2, max. 24 V DC/AC, 1 Ampere, e.g. for electric door opener • External input for external door opener button • 15 V DC input (+, -), max. 15 W • 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) 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	1x Main Electrical Unit 1x Front panel 1x Flush-mounting housing (backbox) 1x Power supply unit (mains adaptor) with four country-specific outlet adaptors (110 - 240 V AC to 15 V DC) 1x RFID key fob 1x Screwdriver 1x Quickstart guide with Digital Passport 1x Installation manual 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 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 www.doorbird.com/buy Up to 100 tags manageable Via App, e.g. • Tag (add, delete) • Individual events (e.g. switch a relay, SIP call [audio/video], HTTP(s) notification) • Individual schedules • RFID history available for 60 minutes in the app
Configuration	

INTEGRATED WIRELESS MODULES

RFID	125 KHz
Sensor	24 GHz, can be disabled

THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

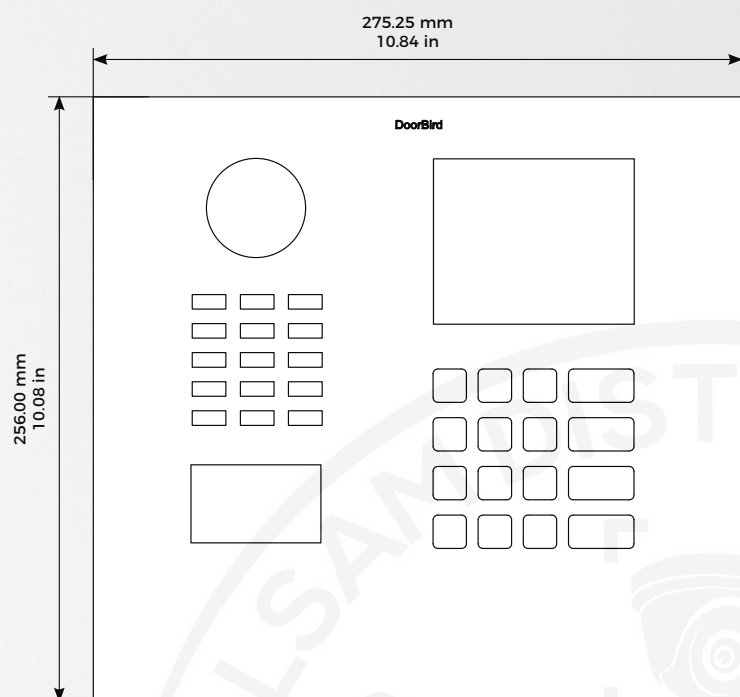
Partnerintegrations	see www.doorbird.com/connect
API	see www.doorbird.com/api
Simultaneous video streams	One, for event-based and continuous recording

OPTIONAL ACCESSORIES

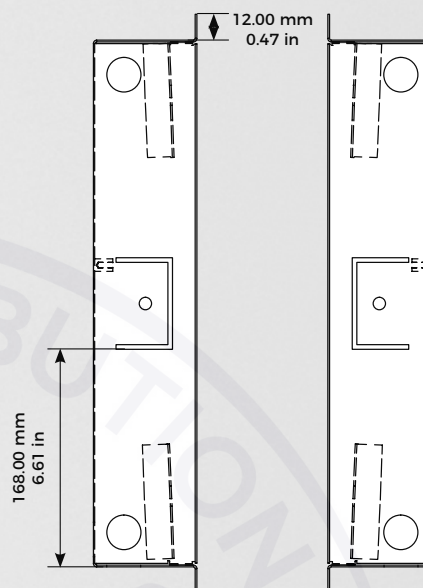
Sold separately	see www.doorbird.com/buy
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Special remarks:
 Assembly requires professional skills or a technician.

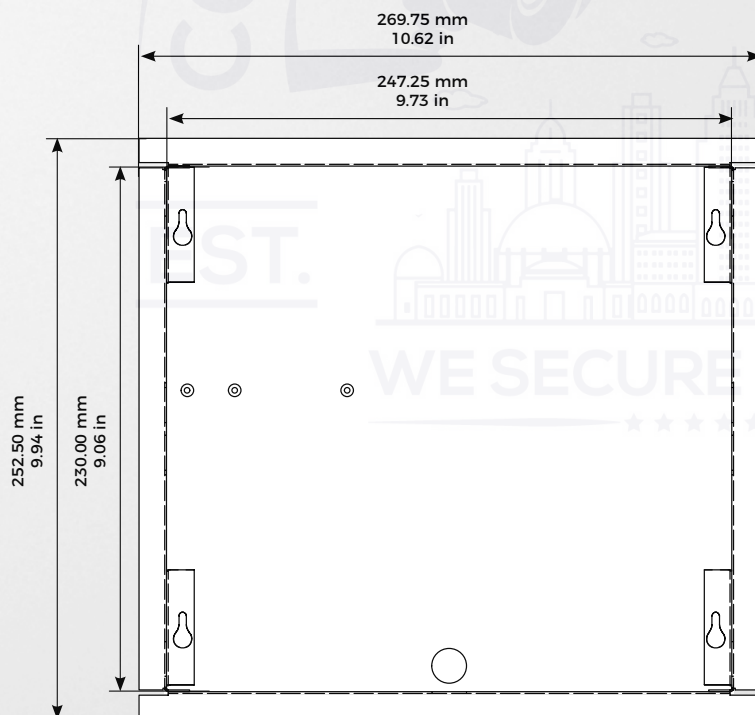
Front panel material thickness: 3.0 mm (0.12 in)



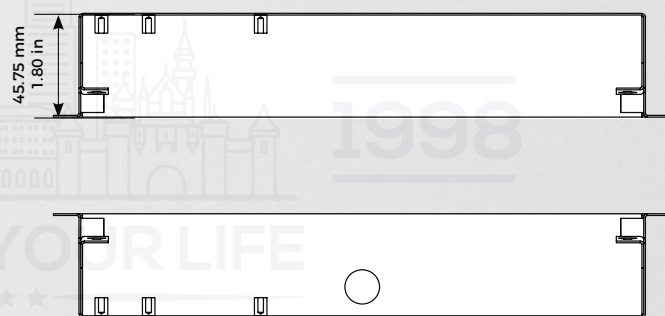
Front panel



Flush-mounting housing (backbox)



Flush-mounting housing (backbox)

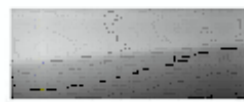
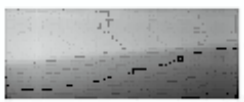
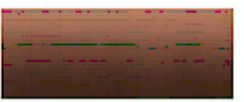
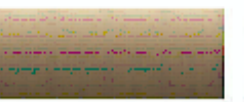
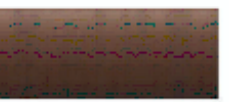
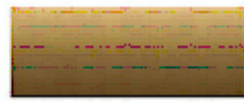
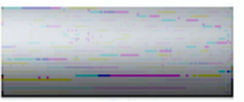
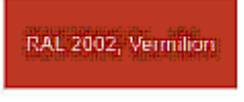
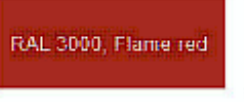
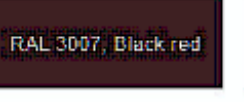
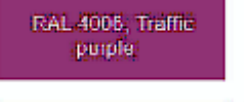
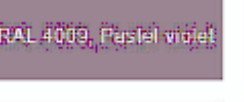
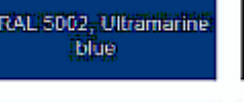
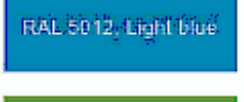
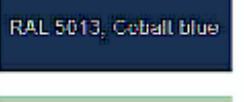
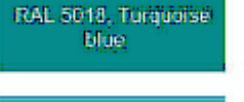
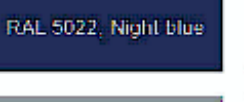
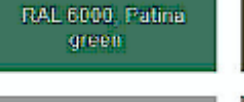
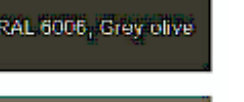
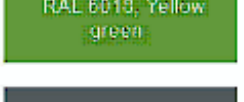
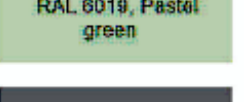
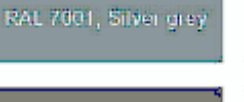
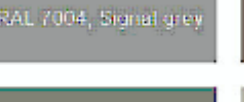
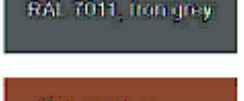
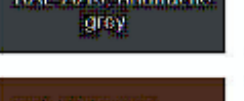
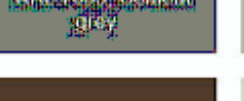
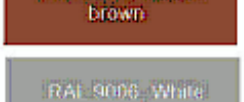
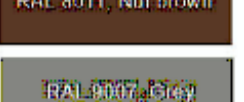
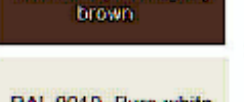
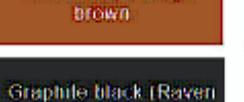
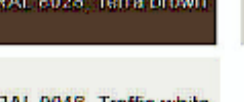
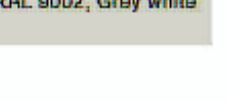
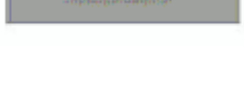
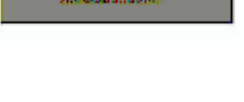


Flush-mounting housing (backbox)

This data sheet is valid for the following EANs (discontinued on August 1, 2021):

4260423860452
 4260423866348
 4260423868151

MATERIALS AND COLORS

					
Stainless steel V2A, brushed	Stainless steel V4A (salt-water and grinding dust resistant), brushed	Bronze-finish as PVD coating, stainless steel, brushed	Titanium-finish as PVD coating, stainless steel, brushed	Real burnished brass	Architectural bronze
					
Gold-finish as PVD coating, stainless steel, brushed	Titanium-finish as PVD coating, stainless steel V4A, high-gloss polished	Chrome-finish as PVD coating, stainless steel V4A, high-gloss polished	Brass-finish as PVD coating, stainless steel V4A, high-gloss polished	DB 703, stainless steel, powder-coated, semi-gloss	
					
RAL 1001, Beige	RAL 1003, Signal yellow	RAL 1004, Golden yellow	RAL 1016, Sulfur yellow	RAL 1017, Saffron yellow	RAL 1037, Sun yellow
					
RAL 2002, Vermilion	RAL 2004, Pure orange	RAL 3000, Flame red	RAL 3007, Black red	RAL 3014, Antique pink	RAL 3028, Pure red
					
RAL 4004, Claret violet	RAL 4005, Blue lilac	RAL 4008, Traffic purple	RAL 4009, Pastel violet	RAL 5002, Ultramarine blue	RAL 5004, Black blue
					
RAL 5012, Light blue	RAL 5013, Cobalt blue	RAL 5018, Turquoise blue	RAL 5022, Night blue	RAL 6000, Patina green	RAL 6006, Grey olive
					
RAL 6019, Yellow green	RAL 6019, Pastel green	RAL 6027, Light green	RAL 7001, Silver grey	RAL 7004, Signal grey	RAL 7006, Beige grey
					
RAL 7011, Iron grey	RAL 7015, Slate grey	RAL 7016, Anthracite grey	RAL 7021, Concrete grey	RAL 7023, Charcoal grey	RAL 7044, Silk grey
					
RAL 8004, Copper brown	RAL 8011, Nut brown	RAL 8016, Mahogany brown	RAL 8023, Orange brown	RAL 8028, Terra brown	RAL 9002, Grey white
					
RAL 9006, White aluminum	RAL 9007, Silver aluminum	RAL 9010, Pure white	Graphite black (Raven Polar)	RAL 9016, Traffic white	

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