DoorBird
Technology meets Design.

Designed, developed and made in Germany

D2101WV

IP VIDEO DOOR STATION

For health-care facilities, schools, and buildings with high public traffic
Touch-Free Call Module · 1 Call Button

Touch-Free Call Module
WAVE HAND TO RING

We at DoorBird have been working hard to research, develop and test how we can play our part in improving the safety of all in the current pandemic situation (COVID-19).

The result of our work is our Touch-Free Call Module.

With our module for contactless ringing, you can reduce virus and germ exposure in areas with high public traffic. The module is ideal for public buildings like health care facilities or schools, but also for smaller offices where the security for staff and visitors is to be actively increased.

The module has an intelligent gesture sensor that reliably detects hand gestures as well as the approach of the hand to the module within a distance of 10 cm (3.94 in). The gesture sensor combines various technologies simultaneously for this purpose, including ambient light, RGB and infrared light sensor technology.

The visitor can draw attention to himself germ-free and intuitively by simply waving. Since our gesture sensor can also detect the approximation of a hand, the solution also works if, for example, a package is held with both hands in front of it.

Two-color backlight illuminated (changes color upon gesture detection)

Once a gesture has been recognized, the module can perform all actions identical to our standard call button, e.g:

• Send a call signal, e.g. as push message

• Initiate a SIP call

• Switch a relay, e.g. to open a door automatically in a certain timeframe

• Send information to the building automation system, e.g. by means of an HTTP/(s) command

Optionally, you can also configure whether only a certain hand gesture should perform an action, e.g. waving hand from left to right opens a door.

The Touch-Free Call Module is compatible with our IP-Video Door Stations of the D21x series. It is recommended that the module is used with one of our powder-coated front panels, as high-chlorine cleaners, which are still partly used in the medical sector, can attack surfaces of bare stainless steel.

STAY HEALTHY!

ANSWER YOUR DOOR 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.

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.

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

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

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

Geofencing
- Automatic door and gate opening when returning home

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

Night vision
- With 12 Infrared LEDs

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

Light sensor
- For night vision mode

Microphone
- Clear voice transmission

Noise reduction and echo cancellation (AEC, ANR)

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

Call button
- With backlit nameplate

Touch-Free Calling Module
- High-end hand gesture sensor, up to 10 cm (3.94 in)
- Individual events (e.g. open door, Push notification, SIP etc.)

Motion sensor with 4D technology
- Distance up to 10 m adjustable via App (interval: 1 m)

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

Two freely configurable bi-stable 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) Available in brushed stainless steel V2A / V4A and in stainless steel V4A powder-coated RAL 9016. Others on request.
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)
Call button	Illuminated
Nameplate	Stainless Steel, Bell symbol, engraved through material for illumination, self-adhesive. Engravable metal nameplate sold separately, see www.doorbird.com/buy

Touch-Free Calling Module	· High-end hand gesture sensor,
	  up to ca. 10 cm (3.94 in)
	· Two-color backlight illuminated (changes
	  color to green upon gesture detection)
	· Individual events (e.g. open door,
	  Push notification, SIP etc.)

Weight	1818 g

Connectors	· RJ45, for LAN/PoE
	· Bi-stable latching relay #1, max. 24 V DC/AC,
	  1 Ampere, e.g. for electric door opener
	· Bi-stable latching relay #2, max. 24 V DC/AC,
	  1 Ampere, e.g. for electric door opener
	· External input for external door opener
	  button (potential-free)
	· 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	313 x 131 x 48,75 mm (H x W x D) 12.32 x 5.16 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 Nameplate for 1 call button, stainless steel, bell symbol 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	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	Via App, e.g.
	· Range (1 - 10 m / 3.3 - 32.9 ft)
	· Movement direction (coming, leaving, both)
	· Individual events (e.g. switch a relay,
	  push notification, SIP call [audio/video],
	  HTTP(s) notification)
	· Individual schedules

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
Configuration	Via App, e.g. · Tag (add, delete) · Individual events (e.g. switch a relay, SIP call [audio/video], HTTP(s) notification) · Individual schedules

INTEGRATED WIRELESS MODULES

RFID	125 KHz
Sensor	24 GHz, can be disabled

THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

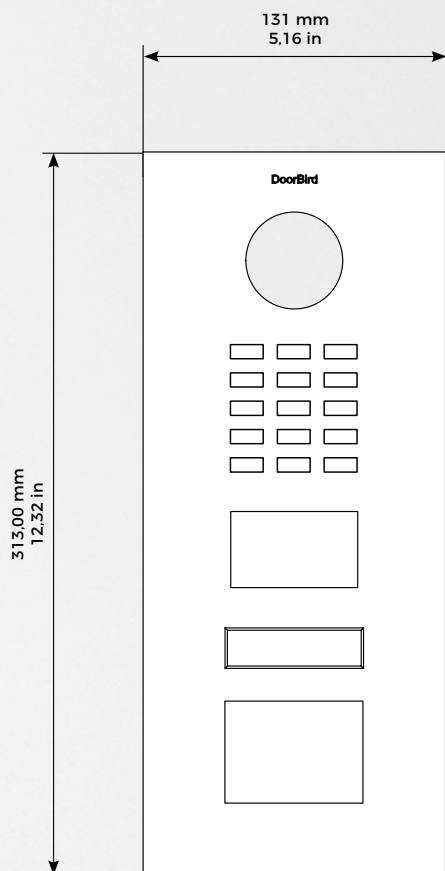|	
Partnerintegrations	see www.doorbird.com/connect
API	see www.doorbird.com/api
Simultaneous video streams	One, for event-based and continuous recording

OPTIONAL ACCESSORIES

Sold separately	see www.doorbird.com/buy

Special remarks:
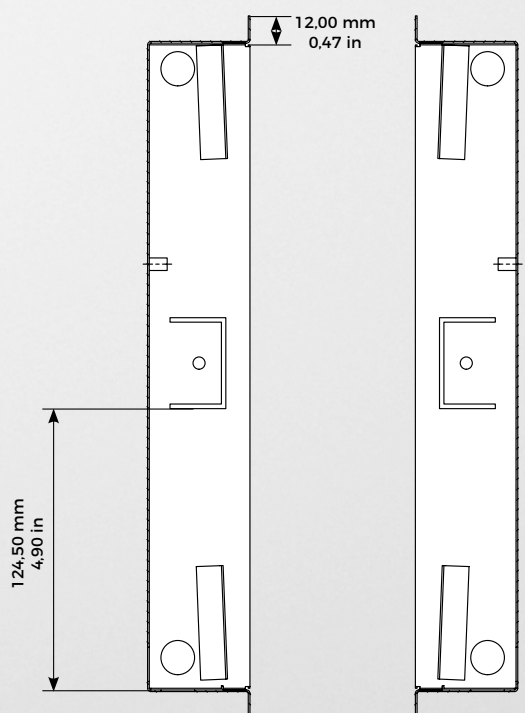Assembly requires professional skills or a technician.

DoorBird
Technology meets Design.

Front panel material thickness: 3.0 mm (0.12 in)

131 mm
5,16 in

313,00 mm
12,32 in

Front panel

126,50 mm
4,98 in

104,00 mm
4,09 in

308,50 mm
12,15 in

286,00 mm
11,26 in

Flush-mounting housing (backbox)

12,00 mm
0,47 in

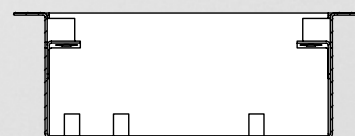124,50 mm
4,90 in
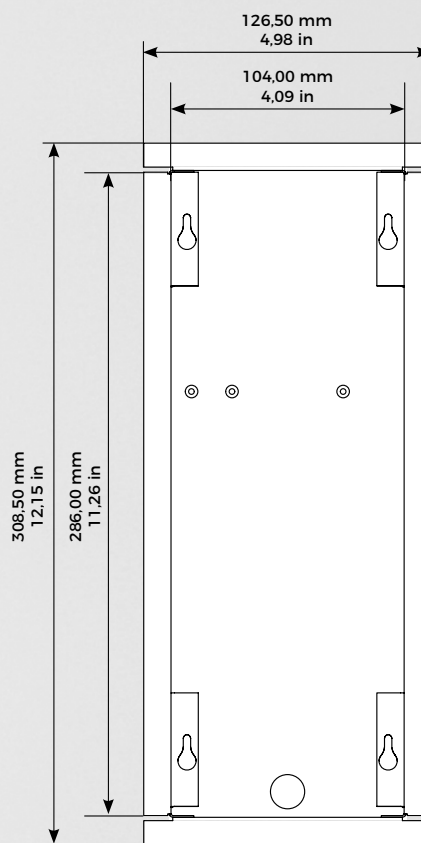
Flush-mounting
housing (backbox)

Flush-mounting
housing (backbox)

45,75 mm
1,80 in

Flush-mounting housing (backbox)