IP Video Door Station
DB-D2101WV

Contactless Call Station for High Public Traffic Areas

DoorBird

Dr. Martin

(((WAVE HERE
TOUCH-FREE CALLING

- Applications include: Health-care Facilites, Schools & Commercial Spaces
- Made in Germany
- Motion Sensor with 4D Technology
- Geofencing for Automatic Door/Gate Opening
- Configurable Relay for Door/Gate Control
- Smartphone Compatible

Intercom Solutions with **DoorBird**
Technology meets Design.

www.aap.co.nz
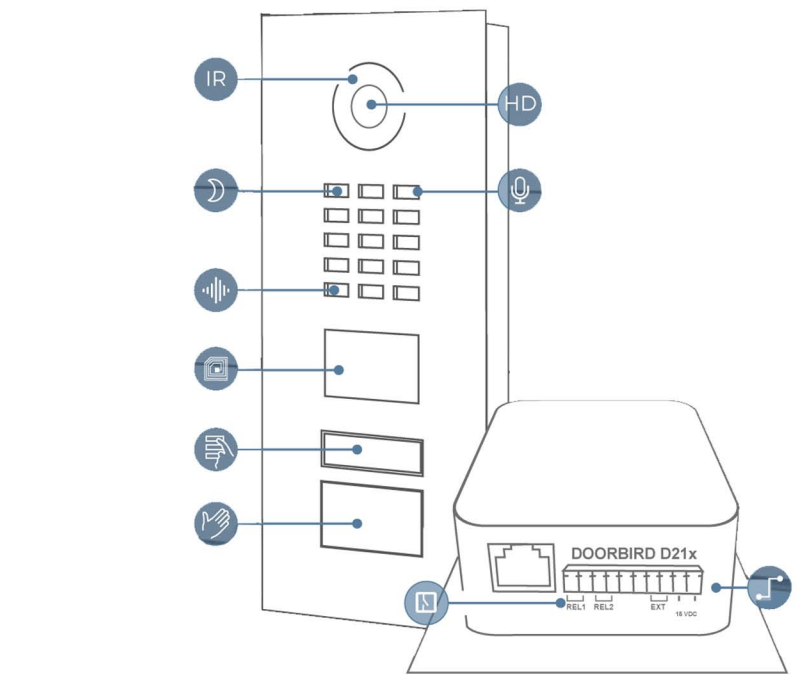
Advantages & Features

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 10cm (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.

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.

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.)

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

Smart Transmission Mode (STM)
• Real-time audio / video communication, optimized for mobile devices via WiFi, 3G, 4G, 5G

Open API
• Local interface for integration with third-party systems and SIP

Call button
• With backlit nameplate
• Up to eighteen call buttons

Configurable call button
• With backlit nameplate

Noise reduction and echo cancellation (AEC, ANR)

Night vision
IR
• With 12 Infrared LEDs

Individual action schedules, e.g.:
• Switch relay 1 for automatic door release Mo-Fr from 9 am until 4 pm when the call button is pressed
• 4D motion sensor switches on external lamp between 9 pm and 6 am

Video and audio call
• On smartphones, tablets (iOS, Android), IP and landline phones (SIP)

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

HDTV Video
HD
• Ultra wide-angle, hemispheric lens, 200°

Light sensor
• For night vision mode

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

Microphone
• Clear voice transmission

Geofencing
• Automatic door and gate opening when returning home

Two freely configurable bi-stable switching relays
• Two doors or gates can be controlled via App
• Status configurable via App: temporary or permanent circuit

Easy connection to the network
• Connection via network cable (PoE, network data) or bell wire via 2-wire transformer

Smart Home & NVR compatible
• Control4, Loxone, Crestron, Synology, AVM FRITZ!Fon, URC, QNAP, RTI, ELAN, Fibaro, Bang & Olufsen and others

Microphone
• Clear voice transmission

Motion sensor with 4D technology
4D
• Distance up to 6 m (19,7f) adjustable via App (interval: 1 m / 3.3f)

Front panel material thickness: 3.0 mm (0.12 in)

131 mm
5,16 in

126,50 mm
4,98 in

104,00 mm
4,09 in

313,00 mm
12,32 in

308,50 mm
12,15 in

286,00 mm
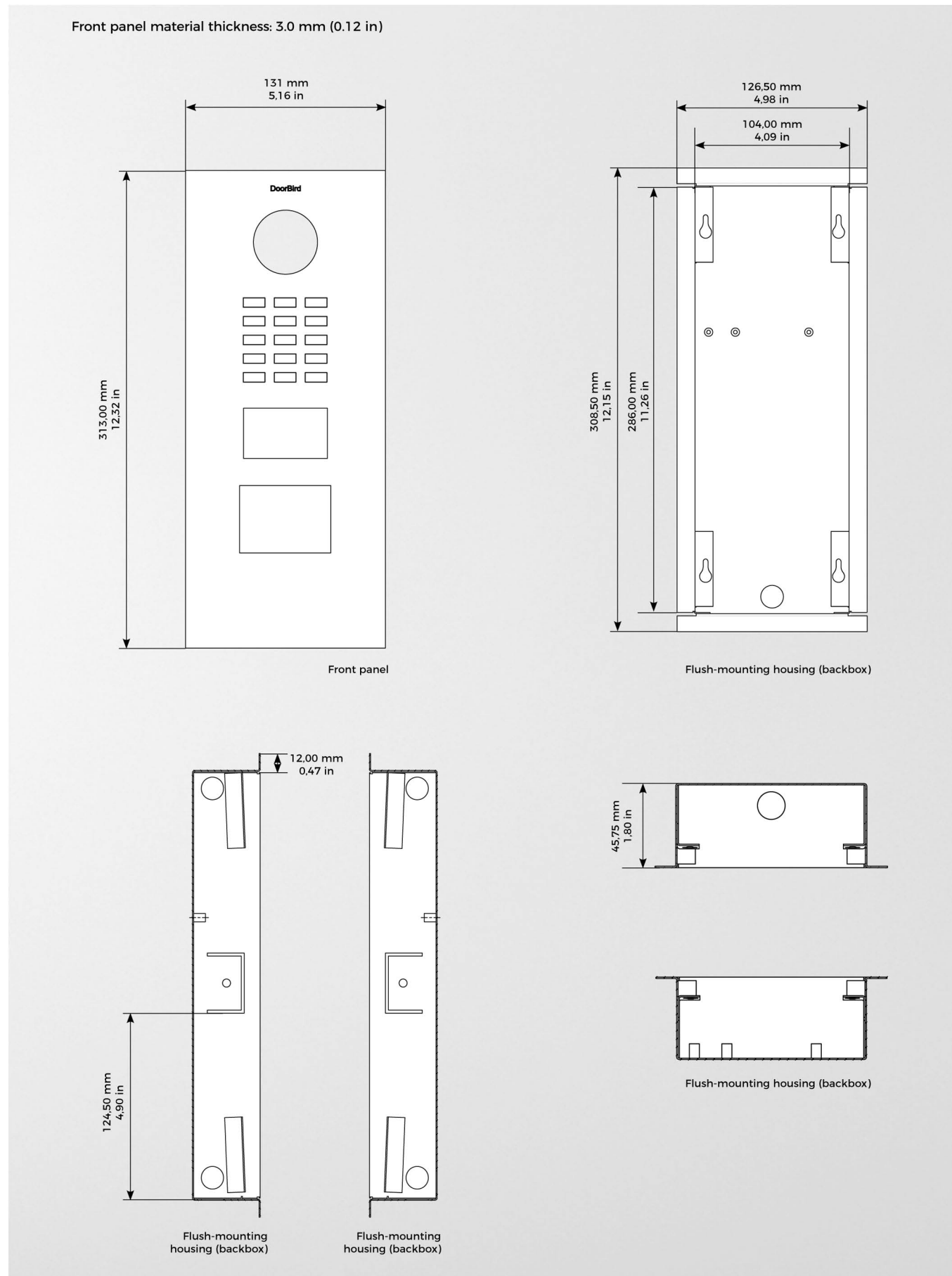11,26 in

DoorBird

Front panel

Flush-mounting housing (backbox)

12,00 mm
0,47 in

45,75 mm
1,80 in

124,50 mm
4,90 in

Flush-mounting
housing (backbox)

Flush-mounting
housing (backbox)

Flush-mounting housing (backbox)

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	349,5 x 129 x 49,6 mm (H x W x D) 13.76 x 5.08 x 1.95 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 Nameplate for 1 call button, plastic, transparent 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