DoorBird
Technology meets Design.

IMPORTANT NOTE:

In order to guarantee your warranty claim of the engineering edition in your own front panels, please refer to the notes and technical drawings.

Download

D3100E

IP VIDEO DOOR STATION

Engineering Edition for integration purposes

Designed, developed and made in Germany

ANSWER YOUR DOOR ANYWHERE.

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.

More than 120 employees are comitted to continuously developing DoorBird in order to guarantee the highest quality, longevity and customer satisfaction. For us "Made in Germany" is not only a seal of quality, but a philosophy.

ADVANTAGES

HD **HDTV video**

- Ultra wide-angle, hemispheric lens, 180°

IR **Night vision**

- With 12 Infrared LEDs

Light sensor

- For night vision mode

Noise reduction and echo cancellation (AEC, ANR)

Geofencing

- Automatic door and gate opening when returning home

API **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)

Automatic door buzzer

- For use in medical offices and office environments

RFID reader

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

Smart Home & NVR compatible

- Control4, Loxone, Crestron, Synology, AVM FRITZ!Fon, URC, QNAP, RTI, Nice, Fibaro, Bang & Olufsen and others

Two freely configurable bistable switching relays

- Two doors or gates can be controlled via App
- Status configurable via App: temporary or permanent circuit

Motion sensor with 4D technology

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

Individual action schedules, e.g.:

- RFID card “abc” has only access on Wednesday from 9 am until 11 am

Integrated accessibility module

- Status visualization
- Acoustic signal when pressing the call button
- Hearing loop for wireless transmission of the audio signal from the door station to the visitor’s hearing aid
- Complies with DIN 18040 (DE), ÖNORM B1600 (AT), SIA 500 (CH) and Article 4 (FR) for construction of accessible buildings

Bluetooth Low Energy (BLE)

- For access control (compatible with Bluetooth Keyfob A8007), compatible external sensors and smart locks

Wiegand interface

- Output of keypad and RFID reader

Easy connection to the network

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

Smart Transmission Mode (STM)

- Real-time audio / video communication, optimized for mobile devices via WiFi, 3G, 4G, 5G

TECHNICAL SPECIFICATIONS

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GENERAL

Power supply	57 V DC (max. 15 W) or PoE+ (Power over Ethernet 802.3at)
Accessibility module	• Approval according to DIN 18040 • Pictograms [calling, speaking, door opening] via Display • Door opening acoustics • Hearing loop
Weight	360 g
Connectors	• RJ45 for LAN/PoE+ • 2x Bistable latching relay #1, max. 24 V DC/AC, 1 A • External input (eg. door opener button) • Wiegand • 48 - 57 V DC 1A input (+, -) • Relays can be expanded / detached with DoorBird I/O Door Controller • 2x Call button port • 1x Module port (keypad, fingerprint) • 1x USB Type-C Module port (touch display)
Approvals	CE, FCC, IC, RoHS, REACH, WEEE, IEC/EN 62368, IEC/EN 62471
Dimensions	237,3 x 315,3 x 48,75 mm (H x W x D) 9.34 x 12.41 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 RFID Key Fob 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 1080p, dynamic (VGA – HDTV)
Lens	High-end ultra wide-angle hemispheric lens 180˚ (D), 150˚ (H), 82˚ (V), straightened, IR-capable
Night vision	Yes, light sensor, automatic IR-cut filter, 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+ IEEE 802.3at, 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	80˚ (H), 50˚ (V)
Range	1 - 6 m (3.3 - 19.7 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 - 6 m / 3.3 - 19.7 ft) • Movement direction (coming, leaving, both) • Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) requests) • Individual schedules

RFID READER 13.56 MHZ

Type	Active Reader Passive Tag (ARPT) system
Standard	ISO 14443A. MIFARE® Classic® . MIFARE® DESFire® EV1, MIFARE® DESFire® EV2, NFC
Frequency	13.6 MHz
Range	0 - 3 cm, depends on environment
Antenna	Internal
Compatible Transponder	RFID key fobs, sold separately, see www.doorbird.com/buy Up to 1000 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 • RFID history available for 60 minutes in the app

WIEGAND

Protocols	26, 30, 31, 34 and 44 bit
Direction	Output (Keypad, RFID reader)
Maximum cable length	150 m (492 ft)
Highlights	Galvanic isolation of the Wiegand output signals, max 5 mA per output (data line)
Configuration	Via App, e.g. protocol and interface on/off

INTEGRATED WIRELESS MODULES

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

THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

Partner integrations	see www.doorbird.com/connect
API	see www.doorbird.com/api
Simultaneous video streams	One, for event-based recording

OPTIONAL ACCESSORIES

Sold separately	see www.doorbird.com/buy

Special remarks:
Assembly requires professional skills or a technician.

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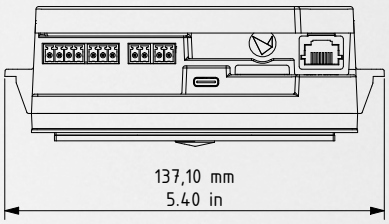
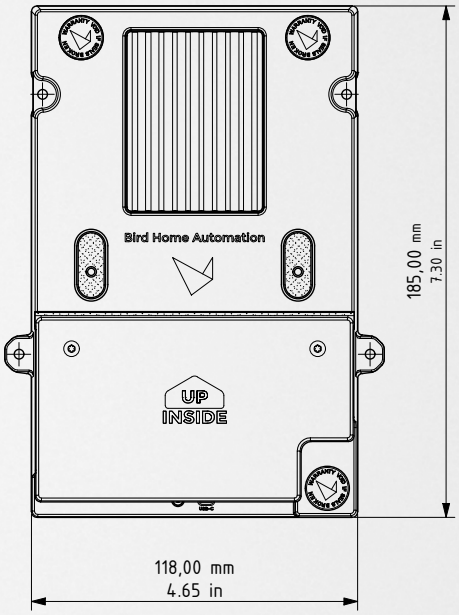
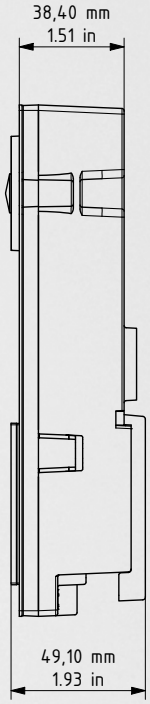


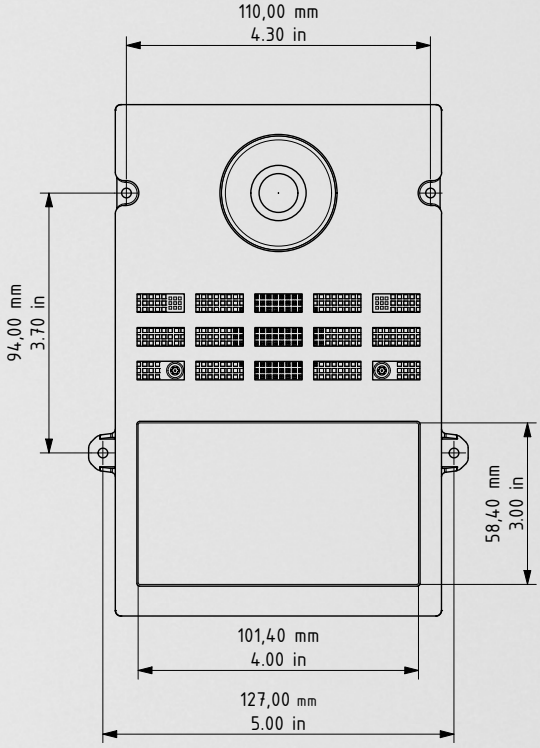
bottom side



Back view with mounted cover



Side



Front

Important note:

For the production of individual panels, please refer to the notes and technical drawings:
www.doorbird.com/downloads/constructional_drawings_D3100e.zip