



D2102FV Fingerprint 50

IP VIDEO DOOR STATION

For houses and commercial buildings with up to 2 units
Fingerprint Reader Module • 2 Call Buttons

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 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



Microphone

- Clear voice transmission



Automatic door buzzer

- For use in medical offices and office environments

HD HDTV Video

- Ultra wide-angle, hemispheric lens, 180°

4D Motion sensor with 4D technology

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



Free visitor history

- Store still images for free, optional video recording available



Light sensor

- For night vision mode



Call button

- With backlit nameplate



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



Fingerprint reader

- Supported number of fingerprints: 50
- Status LED (RGB)
- Touch sensor



Easy connection to the network

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



Geofencing

- Automatic door and gate opening when returning home



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



Night vision

- With 12 Infrared LEDs



RFID reader

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

BIOMETRIC IDENTIFICATION WITH A HUMAN TOUCH

DoorBird cooperates only with the best of its class: Our fingerprint reader is equipped with the technology of Fingerprint Cards AB (Fingerprints™) – the world's leading biometrics company, with its roots in Sweden. Fingerprints™ technology is found in hundreds of millions of devices and applications, and is used billions of times every day, providing safe and convenient identification and authentication with a human touch.

The solution by DoorBird brings together superior biometric performance and security, high standard of quality components and a capacitive touch sensor for our IP door stations and IP access control units.

REMOTE CONFIGURATION

The enrollment of a new fingerprint is done comfortably via App or our web-based dashboard available at <https://webadmin.doorbird.com>. A fingerprint can also be deleted remotely in real-time in case the access has to be revoked.

Using our fingerprint reader, you can restrict access authorization to specific days and times. This way, you determine who can enter your home or building and when. You can also define individually per fingerprint which action should be executed, e.g. trigger relay 1 or relay 2, trigger an IP I/O door controller, call a HTTP(s) URL, arm or disarm an alarm system, open a smart lock or trigger a building automation system event.

WEATHERPROOF SENSOR

Our fingerprint reader is especially designed for areas exposed to strong outdoor weather conditions, e.g. heat and cold, and does not lose its functionality. To ensure error-free detection, the

sensor surface must be dry and clean. The touch sensor is effectively superior to line-based readers in terms of security, comfort and speed, and it also allows a lower installation height.

DATA-PRIVACY AND SECURITY

The reader does not store any fingerprint images. It stores only one template per fingerprint in form of a mathematically calculated hash value. Biometric features are not transmitted to the DoorBird Door Station, the app or the cloud. Thus, our system meets the highest data protection and data security standards.

In addition, the fingerprint reader has a locking mechanism which prevents attempts at manipulation, temporarily locking the system after 5 unauthorized access attempts. To increase the security even more, the fingerprint reader has no built-in relays. Instead, you can securely release a detached relay with the DoorBird I/O Door Controller A1081, which is connected to a DoorBird IP Video Door Station.



FINGERPRINT READER FEATURES

- Touch sensor
- Configurable via App or web-based dashboard
- Status LED (RGB)
- Fully integrated into DoorBird IP Video Door Stations
- 1,000 times more secure than a 4-digit keypad PIN code
- Manipulation prevention system
- Event history with time stamp
- No more misplaced, forgotten, lost or stolen keys possible
- No unauthorized use of PIN codes or RFID key fobs possible, a fingerprint is unique per person
- Personalized time frames and actions
- Sensor area is resistant to household substances and liquids: water, carbonated soft drinks, orange juice, coffee, oil, petrol, soap, sweat
- Supported number of fingerprints (template storage): 50
- Compatible with DoorBird IP Video Door Stations of the D21x and D11x series

| GENERAL | |
|------------------------------|---|
| Front panel | 3 mm (0.12 in) Available in brushed stainless steel V2A / V4A and V2A with bronze and titanium finish, DB 703, RAL 7016 |
| 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) |
| Call button | Plastic. Engravable metal nameplate sold separately, see www.doorbird.com/buy |
| Nameplate | Illuminated Configurable via App |
| Fingerprint Reader Module 50 | <ul style="list-style-type: none"> Individual events (e.g. switch a relay, HTTP(s) request) Individual schedules 50 fingerprints manageable Event history <p>Multicolored Status LED</p> <ul style="list-style-type: none"> Normal mode: <ul style="list-style-type: none"> -Green + success sound: successfully authenticated -Red + error sound: unrecognized fingerprint (e.g. unknown fingerprint or wet touch sensor field - dry it with a tissue) -Pink: Manipulation prevention (too many failed attempts, locked out for min. 30 seconds) Enrollment mode: <ul style="list-style-type: none"> -Blue: wait for finger to touch -Green + no sound: scan step successful -Green + success sound: entire scan step successful (enrollment done) -LED goes off: Timeout during enrollment Start-up mode: <ul style="list-style-type: none"> -Yellow: Hardware test successful -Red: Hardware test not successful (broken) |
| Weight | 1381 g |
| Connectors | <ul style="list-style-type: none"> RJ45, for LAN/PoE Bi-stable latching relay #1, max. 24 V DC/AC, 1 A, e.g. for electric door opener Bi-stable latching relay #2, max. 24 V DC/AC, 1 A, 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 | 351,5 x 131 x 49,6 mm (H x W x D) 13.84 x 5.16 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 | <ul style="list-style-type: none"> 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 www.doorbird.com/warranty |

| CURRENT SYSTEM REQUIREMENTS | |
|---------------------------------|--|
| System requirements | <p>Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet</p> <p>Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fiber optic, no socks or proxy server</p> <p>Network: Ethernet Network, with DHCP</p> |
| 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 | <p>Via App, e.g.</p> <ul style="list-style-type: none"> 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 | <p>RFID key fobs, sold separately, see www.doorbird.com/buy</p> <p>Up to 200 tags manageable</p> |
| Configuration | <p>Via App, e.g.</p> <ul style="list-style-type: none"> 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 |

| 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 | <ul style="list-style-type: none"> Power supply unit (mains adaptor) with 4 country-specific outlet adaptors (110 - 240 V AC to 15 V DC) - EAN 4260423867314 Surface-mounting housing, flush-mounting housing, Protective-Hood See www.doorbird.com/buy |

Special remarks:
Assembly requires professional skills or a technician.

Front panel material thickness: 3.0 mm (0.12 in)

