



DoorBird
Technology meets Design.



D21DKH

IP VIDEO DOOR STATION

For multi-tenant residences and buildings with up to 100 units
Display Module • Keypad Module

AE SYSTEMS
Oeverstraat 19
9160 Lokeren (Belgium)
Tel. +32 (0)9 356 00 51
info@aesystems.be
www.aesystems.be



ANSWER YOUR DOOR ANYWHERE.



HOW DOES IT WORK

Imagine, you are not at home and your children have locked themselves out or the courier delivers a package. With DoorBird this is no longer a problem. Each time someone rings the doorbell you get a push notification on your smartphone or tablet. You can then not only talk to the visitor but also see him in HD quality. You will never miss a visitor again. With DoorBird you are on the go and still at home, even if a burglar presses the doorbell to check if someone is at home.

SMART HOME STARTS AT THE FRONT DOOR

DoorBird is the smart solution for your door entrance. 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 a door chime or an electric door and gate opener can still be used and controlled via the App.

QUALITY MADE IN GERMANY

DoorBird is designed, developed and produced in Berlin, Germany. DoorBird's "Made in Germany" is not only a motto but a philosophy. All DoorBird IP Video Door Stations are manufactured and tested in Berlin to guarantee the highest quality, longevity and customer satisfaction.

ADVANTAGES



Open API

Local interface for the integration with third-party systems and SIP



Automatic door opener

For use in medical offices and office environments



Night vision

With 12 IR LEDs



HDTV Video

Ultra-wide-angle, hemispheric lens, 180°



Video and audio call

On smartphones and tablets (iOS, Android) or landline phones (SIP)



Free cloud recording

Can be optionally activated for visitor history



Light sensor

For night vision mode



Echo and noise suppression (AEC, ANR)



Smart Home & ONVIF compatible

Control4, Loxone, Crestron, Synology, QNAP, AVM FRITZ!fon, URC, RTI, ELAN, Fibaro, Bang & Olufsen and others



Geofencing

Automatic door and gate opening when returning home



Display Module

Distance Sensitivity On/Off
Individually configurable, e.g.:
Display of the resident directory,
Various status displays



RFID card reader

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



Receive packages at any time

Direct the parcel carrier e.g. to the neighbor or open the garage door via smartphone



Elegant and discreet design

No visible screws on the front panel
Plain and high-quality surface



Keypad Module

Configurable via App
Individual PIN Codes
Individual events (e.g.: a relay switch, push notification, ...)



Individual time and action plans, e.g.:

RFID card „abc“ has only admission on Wednesday from 9 am until 11 am

4D motion sensor switches on external lamp between 9 pm and 6 am



Burglary prevention

Prevents more break-ins than an alarm system



Easy connection to the network

Connection via RJ45 socket or bell wire via 2-wire transformer (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
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. <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • RJ45, for LAN/PoE • Bi-stable latching relay #1, max. 1-24 V DC/V AC, 1 Ampere, e.g. for electric door opener • Bi-stable latching relay #2, max. 1-24 V DC/V 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
Weather-proof	Yes, IP65
Approvals	CE, IC, FCC, RoHS, IP65, IK08
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 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	<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> <p>Camera lens should be at a min. height of 145 cm (57 in). Before the installation please determine your optimal installation height.</p>
---------------------	--

VIDEO

Camera	HDTV 720p, dynamic (VGA - HDTV)
Lens	High-end ultra wide-angle hemispheric lens 180° horizontal, 90° vertical, straightened, IR-capable
Night-vision	Yes, light sensor, automatic IR-cut filter, 12 IR-LEDs (850 nm)

AUDIO

Audio components	Speaker and microphone, echo and noise cancellation (AEC, ANR)
Audio streaming	Two-way, full duplex

NETWORK

Ethernet	RJ45 jack, PoE 802.3af Mode-A
----------	-------------------------------

MOTION SENSOR

Type	Active
Detection angle	54° horizontal, 70° vertical
Range	1 - 10 m (3.3 - 32.9 ft), depends on environment, configurable in 1 m (3.3 ft) steps.
Technology	If a "Display Module" is connected to the Main electrical unit, the range is limited to 1 m (3.3 ft). 4D. Based on multiple integrated sensors and algorithms, e.g. Radio Frequency Energy (RFE)
Configuration	Via App, e.g. <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	Key fob, sold separately, see www.doorbird.com/buy
Configuration	Up to 100 tags manageable Via App, e.g. <ul style="list-style-type: none"> • Tag (add, delete) • Individual events (e.g. switch a relay, push notification, SIP call [audio/video], HTTP(s) notification) • Individual schedules

INTEGRATED WIRELESS MODULES

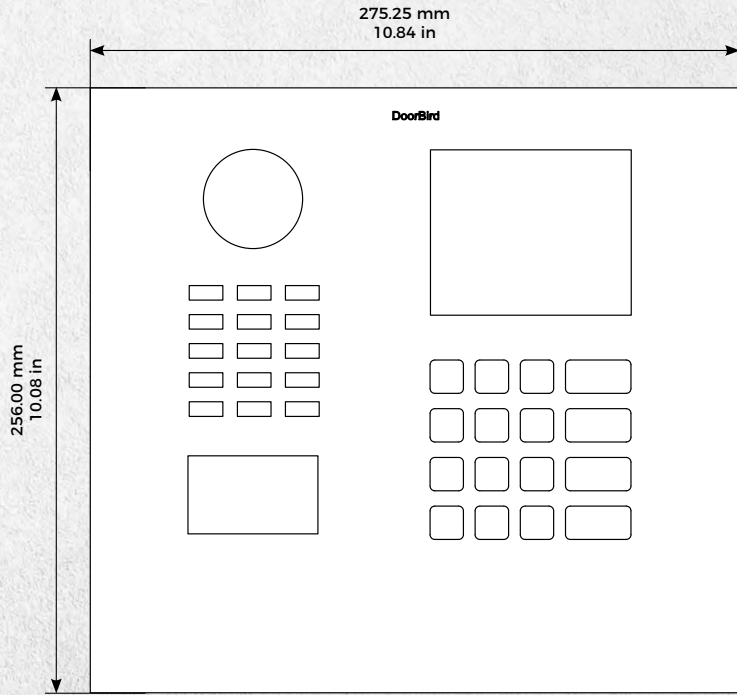
RFID	125 KHz
Sensor	24 GHz, can be disabled

OPTIONAL ACCESSORIES

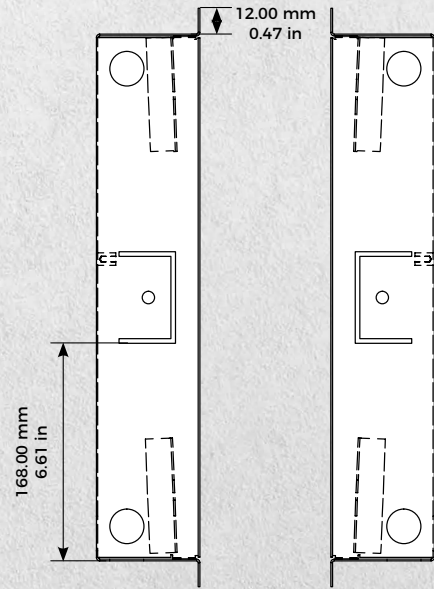
Sold separately	see www.doorbird.com/buy
-----------------	--

Special remarks:
Assembly requires professional skills or a technician.

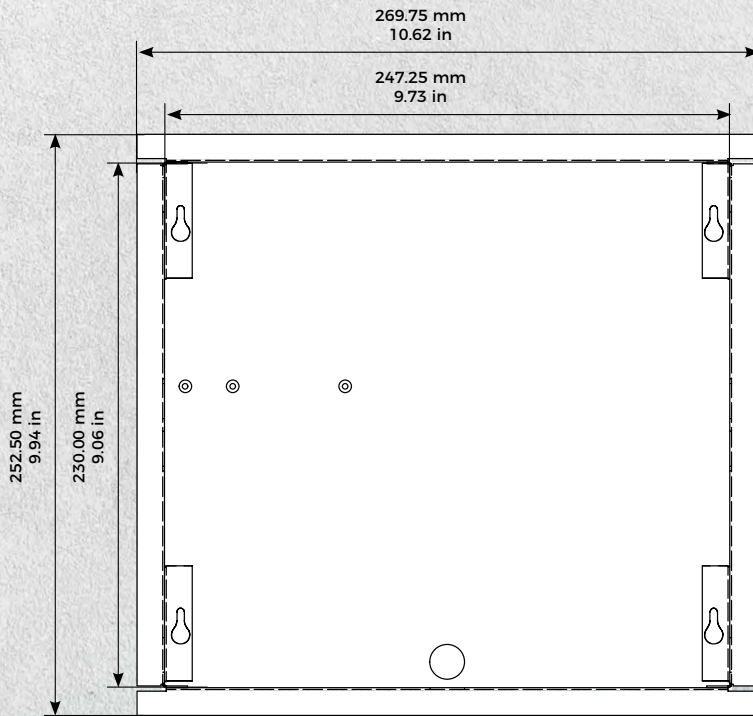
Front panel material thickness: 3.0 mm (0.12 in)



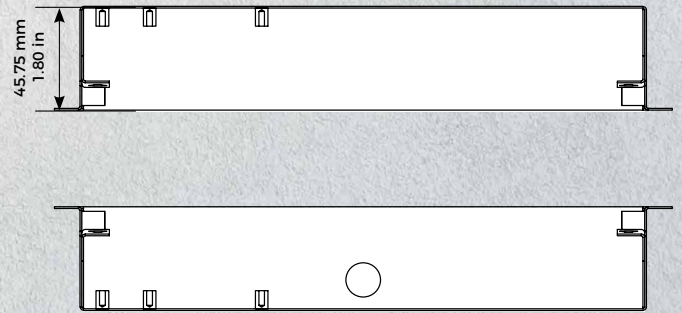
Front panel



Flush-mounting housing (backbox)



Flush-mounting housing (backbox)



Flush-mounting housing (backbox)