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IP Video Door Station
D22x Series



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D22x

INSTALLATION MANUAL

Read these instructions carefully before starting to use any components. Keep the manual so you can refer to it at a later date if required. If you hand over the device to other persons for use, please hand over the operating manual as well.

You can always find the most up-to-date version of the installation manual on www.doorbird.com/ support

To make things easier we use the term "device" for the product "IP Video Door Station" and "mobile device" for a smartphone or tablet.

Liability

Every care has been taken in the preparation of this document. Please inform Bird Home Automation GmbH of any inaccuracies or omissions. Bird Home Automation GmbH cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. Bird Home Automation GmbH makes no warranty of any kind with regard to the content of this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Bird Home Automation GmbH shall neither be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material. This product is only to be used for its intended purpose.

Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no components that require service by the user. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Symbols used



Warning: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Caution: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Notice: Indicates a situation which, if not avoided, could result in damage to property.



Important: Indicates significant information which is essential for the product to function correctly.



Note: Indicates useful information which helps in getting the most out of the product.



Note: Indicates useful information which helps in getting the most out of the product.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et

Développement économique Canada.
L'exploitation est soumise aux deux conditions
suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

l'appareil numérique du ciem conforme canadien peut
- 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine
evaluation limits in section 2.5 of RSS 102 and
compliance with RSS 102 RF exposure, users can
obtain Canadian information on RF exposure and
compliance.

cet appareil est conforme à l'exemption des limites
d'évaluation courante dans la section 2.5 du cnr - 102
et conformité avec rss 102 de l'exposition aux rf, les
utilisateurs peuvent obtenir des données canadiennes
sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation
exposure limits set forth for an uncontrolled
environment.

Cet équipement est conforme aux limites d'exposition
aux rayonnements du Canada établies pour un
environnement non contrôlé.

This equipment should be installed and operated with
minimum distance 20 cm between the radiator & your
body.

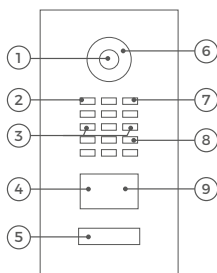
Cet équipement doit être installé et utilisé à une
distance minimale de 20 cm entre le radiateur et votre
corps.

Please observe the warnings and safety instructions in
our accompanying booklet:

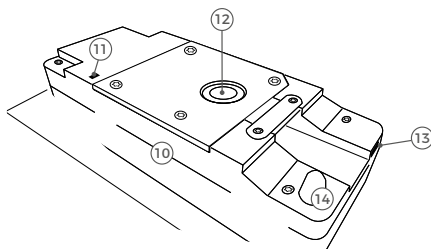
<https://www.doorbird.com/downloads/warnings.pdf>

DEVICE EXAMPLE WITH 1 CALL BUTTON

Front



Inside

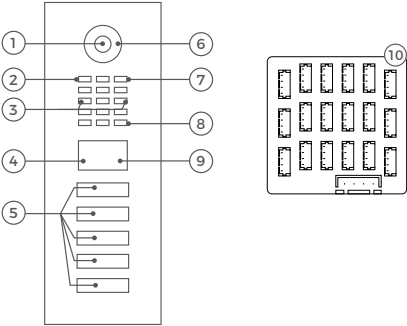


- | | |
|--|--------------------------|
| 1) 5 MP Video | 6) Night Vision LEDs |
| 2) Light Sensor | 7) Microphone |
| For night vision mode | 8) Loudspeaker |
| 3) Security screws | 9) RFID Reader |
| 4) Motion Sensor | 10) Main Electrical Unit |
| 5) Illuminated call button
with nameplate | 11) Diagnostic LED |

- | |
|---|
| 12) Cable entry (optional) |
| 13) USB Type-C jack for authorized modules of
Bird Home Automation |
| 14) Sabotage contact |

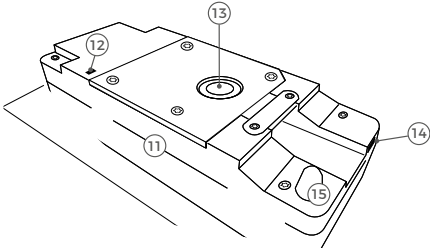
DEVICE EXAMPLE WITH 5 AND MORE CALL BUTTONS

Front



- 1) 5 MP Video
- 2) Light Sensor
For night vision mode
- 3) Security screws
- 4) Motion Sensor
- 5) Illuminated call buttons with nameplate
- 6) Night Vision LEDs
- 7) Microphone
- 8) Loudspeaker
- 9) RFID Reader

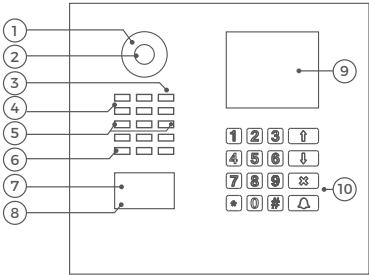
Inside



- 10) DoorBird Multi
Tenant Module
MTM18A
- 11) Main Electrical Unit
- 12) Diagnostic LED
- 13) Cable entry (optional)
- 14) USB Type-C jack for authorized modules of
Bird Home Automation
- 15) Sabotage contact

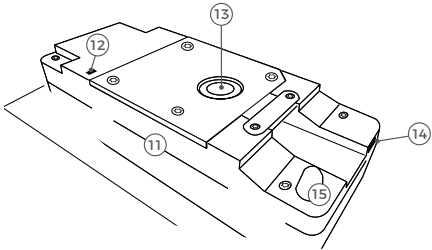
DEVICE EXAMPLE WITH DISPLAY MODULE AND KEYPAD MODULE

Front



- 1) Night Vision LEDs
- 2) 5 MP Video
- 3) Microphone
- 4) Light Sensor
For night-vision mode
- 5) Security screws
- 6) Loudspeaker
- 7) RFID Reader
- 8) Motion Sensor

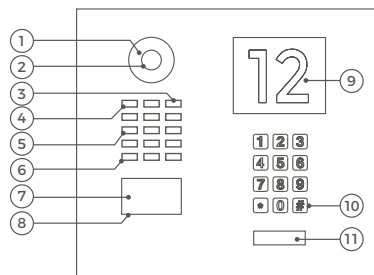
Inside



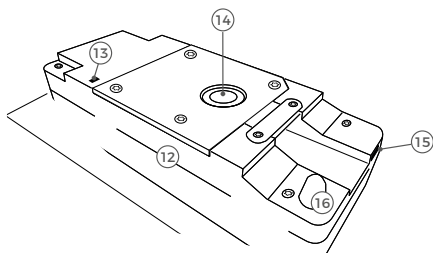
- 9) Display Module
- 10) Keypad Module
- 11) Main Electrical Unit
- 12) Diagnostic LED
- 13) Cable entry (optional)
- 14) USB Type-C jack for authorized modules of Bird
Home Automation
- 15) Sabotage contact

DEVICE EXAMPLE WITH INFO MODULE AND KEYPAD MODULE

Front



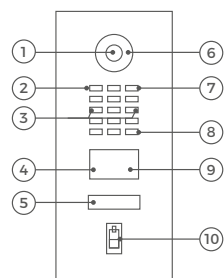
Inside



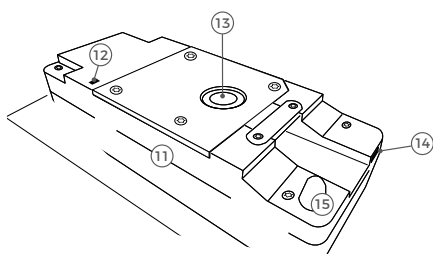
- | | | |
|----------------------|--|--|
| 1) Night Vision LEDs | 7) RFID Reader | 12) Main Electrical Unit |
| 2) 5 MP Video | 8) Motion Sensor | 13) Diagnostic LED |
| 3) Microphone | 9) Info Module | 14) Cable entry (optional) |
| 4) Light Sensor | 10) Keypad Module | 15) USB Type-C jack for authorized modules of Bird Home Automation |
| 5) Security screws | 11) Illuminated call button with nameplate | 16) Sabotage contact |
| 6) Loudspeaker | | |

DEVICE EXAMPLE WITH FINGERPRINT READER MODULE

Front



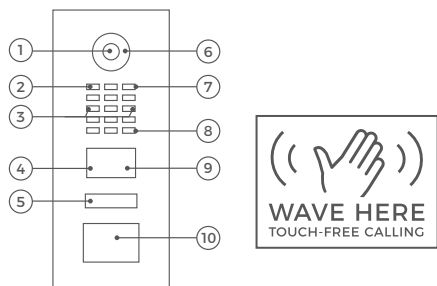
Inside



- | | | |
|--|--------------------------|--|
| 1) 5 MP Video | 6) Night Vision LEDs | 13) Cable entry (optional) |
| 2) Light Sensor | 7) Microphone | 14) USB Type-C jack for authorized modules of Bird Home Automation |
| 3) Security screws | 8) Loudspeaker | 15) Sabotage contact |
| 4) Motion Sensor | 9) RFID Reader | |
| 5) Illuminated call buttons with nameplate | 10) Fingerprint Reader | |
| | 11) Main Electrical Unit | |
| | 12) Diagnostic LED | |

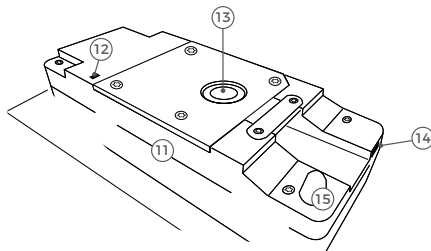
DEVICE EXAMPLE WITH TOUCH FREE CALL BUTTON MODULE

Front



- 1) 5 MP Video
- 2) Light Sensor
For night vision mode
- 3) Security screws
- 4) Motion Sensor
- 5) Illuminated call button with nameplate
- 6) Night Vision LEDs
- 7) Microphone
- 8) Loudspeaker

Inside



- 9) RFID Reader
- 10) Touch Free Call Button module to initiate door calls without contact
- 11) Main Electrical Unit
- 12) Diagnostic LED
- 13) Cable entry (optional)
- 14) USB Type-C jack for authorized modules of Bird Home Automation
- 15) Sabotage contact

Some door stations of the D22x series have an optional additional Accessibility Module including status display with three pictograms [calling, speaking, door opening], door opening acoustics and hearing loop. The module complies with DIN 18040 (Construction of accessible buildings) when installed properly.

VIDEOS

Need help with the installation? Be sure to watch our installation videos which can be found on www.doorbird.com/support

Each individual step of the installation is clearly documented in the videos.

INSTALLATION

All the steps below should be carried out carefully by a competent adult, taking into consideration any applicable safety regulations. Please contact us directly or seek the advice of a competent specialist.

Please ensure that all wires used for the installation are undamaged along their entire length and approved for this type of use.

Network speed and network components

Please ensure that the upload speed of your Internet connection is at least 0.5 Mbps. You can also carry out a speed test at any time via the DoorBird App. The user experience is only as good as your network speed, network stability and quality of your network components, such as your Internet Router and WiFi access points or WiFi repeaters. Please also make sure that your network components are no older than two years, have been manufactured by a well-known manufacturer, and have the latest firmware installed.

Should these requirements not be fulfilled, it may occur, for example that the performance of audio and video is poor or push notifications are delayed or do not arrive on your smartphone or tablet at all.

Requirements:

High-speed Internet (via landline): DSL, cable or optical fibre
Network: Ethernet, with DHCP

1

SWITCHING OFF POWER



Switch off the power to all wires leading to the assembly location, i.e. the door chime, electric door opener, power supply unit for the video door station etc.

2

DISMANTLING THE EXISTING DOORBELL

Should there already be a doorbell or door station on the exterior wall of the house, please dismantle it.

3

DETERMINING THE ASSEMBLY LOCATION

The device uses an ultra wide-angle hemispheric lens so that even when the person is a minimum distance of 50 cm (19.68 in) away from the device, a low installation height is sufficient. The lens is therefore not mechanically adjustable. The camera lens should be located at an altitude of at least 145 cm (57 in). You may check this prior to the final mounting.

When choosing the assembly location, consider the lighting conditions. Avoid direct sunlight, direct backlight and reflective surfaces.

The network cable between the device and the PoE+ Switch/PoE+ Injector/Internet Router can have a maximum length of 80 meters/262 feet (IEEE 802.3).



Do not expose the device to direct sunlight. The housing temperature can exceed the maximum allowed temperature limit. This can result in damage of electric and mechanic components of the device and injuries especially when touching exterior parts of the device. White and bright silver-colored front plates absorb less sunlight than dark ones.



An image sensor must not be exposed to direct sunlight for an extended period of time. Direct sunlight will "blind" the camera and may permanently bleach the small color filters on the image sensor chip.



Any defects caused by direct sunlight are not covered by warranty.



If you have only two wires available at the assembly location, you may use of the "2-wire Ethernet PoE+ Converter A1072", sold separately. It allows you to transfer network data (Ethernet) and power (PoE) with a simple two-wire cable over long distances. For example: existing buildings with a simple two-wire bell wire can be equipped with network technology without having to retrofit any network cables.

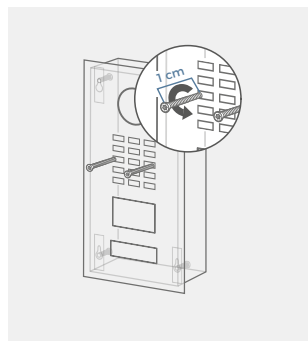
4

REMOVING THE CASING (ONLY FOR ORDERS PLACED IN THE DOORBIRD CONFIGURATOR)

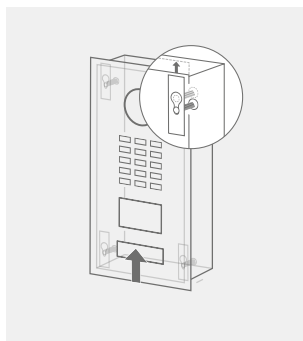


If the back casing is included separately and not mounted to the front cover, please skip this step.

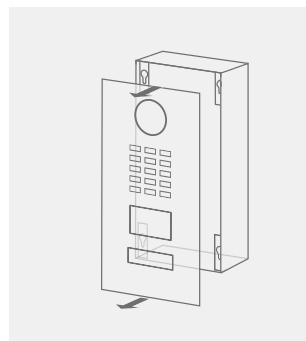
Use the supplied screwdriver to carefully remove the front cover including the main unit from the mounting back casing.



Unscrew the 1 cm safety screws.



Slide the front cover upwards.

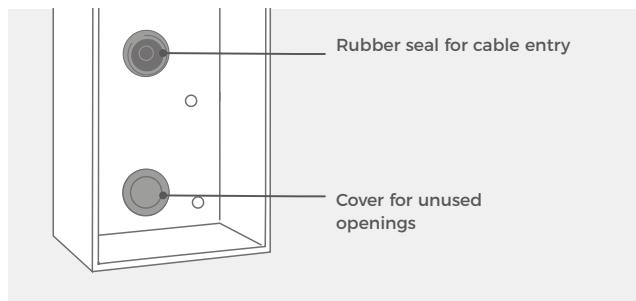


Pull the front cover in your direction.

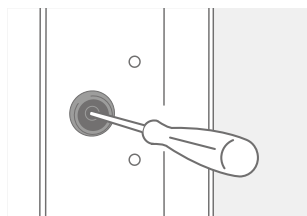
ASSEMBLING THE MOUNTING HOUSING

Remove the front panel carefully using the screw driver provided with the device from the mounting housing (backbox). You can find detailed drawings and measurements of the device in the corresponding datasheet.

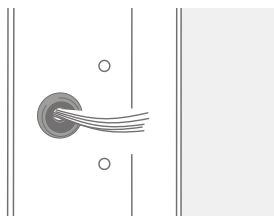
Mounting the surface-mounted housing



Place the rubber seal for the cable entry on the mounting opening.



Pierce through the middle of the rubber seal using a screwdriver.



Feed all cables and wires that you want to connect to the device through the rubber seal.



If you must drill holes in a wall, insert screws into a wall or lever up a wall, ensure that no cables or mains (gas, water, etc.) are to be found in the wall.

Important note for cavity mounting (e.g. in pedestals and mailboxes):

To protect the electronic units, please ensure that the technical components are protected against dripping and running water caused by condensate or entering the mounting space through openings.

To protect the electronic units, ensure that the mounting space inside is not accumulating water.

Sufficient air circulation must be ensured, as well as unobstructed drainage of water at the base of the installation.

Failure to do so will result in warranty being declined.

POWER SUPPLY

The device is powered via PoE+ IEEE 802.3at (Power over Ethernet) using a network cable because the network connection of the device is exclusively via LAN.



POWER SUPPLY AND NETWORK CONNECTION USING POE (POWER OVER ETHERNET)

To power the device via a PoE+ Switch or PoE+ Injector (e.g. DoorBird Gigabit High-PoE Injector A1093) in accordance with the PoE standard IEEE 802.3at Mode A/B, the four wires bearing the numbers 1, 2, 3 and 6 of a Cat.5 cable or better are to be used. Make sure to use a high-quality Cat.5 network cable or better and with proper shielding (Screened Foiled Twisted Pair (S/FTP or SFTP)) whereby the shield is connected to the outer metal shield of the RJ45 plug (8P8C). If you use PoE as a source of power the four wires for PoE then simultaneously form the data link.

The device won't start if your PoE+ Switch/PoE+ Injector does not support the PoE Standard IEEE 802.3at Mode A/B (see Diagnostic-LED and Diagnostic-Sounds).



1. Disconnect the PoE-Switch or PoE-Injector from the power grid.
2. Run the network cable to the installation location of the device.

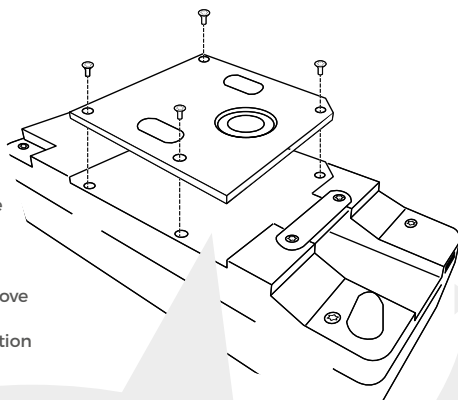
Further information on PoE can be found here: <http://www.doorbird.com/poe>

7

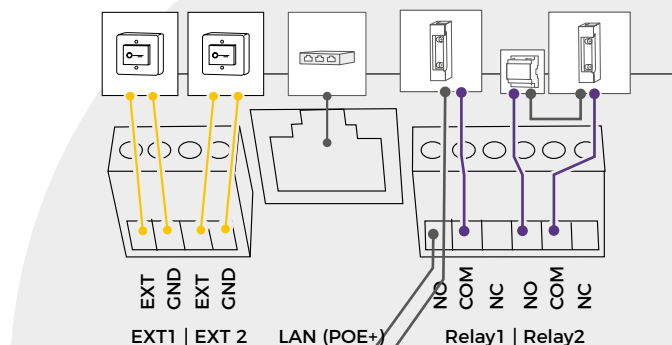
CONNECTING THE DEVICE

To connect the cables to the device, you must first remove the cover of the connection socket using the enclosed screwdriver.

It is possible to connect the cables and wires to the device conveniently and safely via labelled connection ports. You can connect all necessary cables and wires to the device now. Please remove any cables and wires from the connection ports of the device that you do not need. Remove about 5 mm of insulation material at the end of the wires that you would like to connect to the green screw connection terminal of the device.



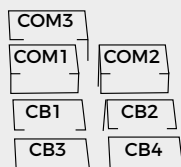
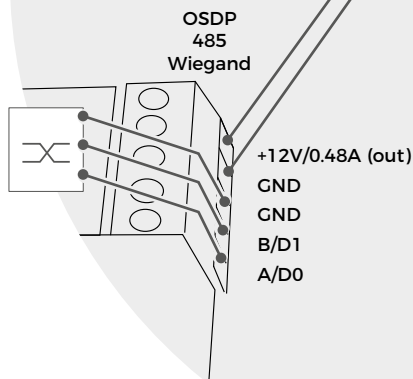
Display
USB-C



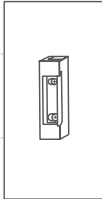
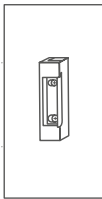
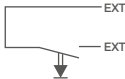
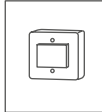
Handle the front panel with care. The surface of the front panel could be scratched or otherwise damaged if handled without care.



Please take care when connecting the cables and wires. Connecting the cables and wires the wrong way may damage the device. Wires without insulation material must not protrude out of the green screw connection terminal, it may lead to electrical short and damage the device.



Screw the protective cover back on after connecting the cables to protect the device from moisture.

PORT	DESCRIPTION	
LAN/POE+		RJ45 jack to connect the Network coming from the PoE+ Switch/PoE+ Injector.
R1 NO		Relay #1, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Normally open" state. Closes when triggering.
R1 COM		Relay #1, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Common terminal".
R1 NC		Relay #1, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Normally closed" state. Opens when triggering.
R2 NO		Relay #2, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Normally open" state. Closes when triggering.
R2 COM		Relay #2, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Common terminal".
R2 NC		Relay #2, max. 24 V AC/DC, 1 A, e.g. for door opener, contact for "Normally closed" state. Opens when triggering.
EXT1, EXT2 		Digital input (0 V, 0 A (NO)), for door opener button, max. 0 V DC/AC, 0 A. These ports can be used to connect e.g. a door opener button inside the home. Relay can be configured in the DoorBird App or Webadmin.  NOTICE Please make sure to add no voltage on these ports. Extra voltage may destroy the device immediately.
+12 V / 0.45 A (out)		12 V DC output, 0.45 A, e.g. for door opener
GND, GND		Ground. For Wiegand output (RFID reader, Keypad). Wiegand can be turned on/off and configured via the DoorBird App or Webadmin. The Small parts bag provided contains a cable with three individual wires (black, green, white) and plug. Please use this cable to connect your Wiegand device (GND: Black wire).
D1		Data High. For Wiegand output (RFID reader, Keypad). Max. 5 mA per output (data line). Wiegand can be turned on/off and configured via the DoorBird App or Webadmin. The Small parts bag provided contains a cable with tree individual wires (black, green, white) and plug. Please use this cable to connect your Wiegand device (D1: white wire).
D0		Data Low. For Wiegand output (RFID reader, Keypad). Max. 5 mA per output (data line). Wiegand can be turned on/off and configured via the DoorBird App or Webadmin. The Small parts bag provided contains a cable with tree individual wires (black, green, white) and plug. Please use this cable to connect your Wiegand device (D0: Green wire).
COM1, COM2		Jack for authorized modules of Bird Home Automation e.g. info panel



Trigger time can be configured in the DoorBird App or Webadmin

COM3	Jack for authorized modules of Bird Home Automation e.g. keypad, fingerprint reader, MTM
CB1, CB2, CB3, CB4	Jack for first (CB1), second (CB2), third (CB3) and fourth (CB4) call button
USB Type-C	Jack for authorized peripherals of Bird Home Automation e.g. touch display, 3.5" display.

NOTICE The jacks "CB1", "CB2", "CB3", "CB4" and "COM1", "COM2", "COM3" on the rear side of the Main Electrical Unit must only be used to connect components certified by Bird Home Automation.

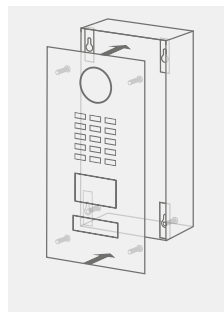
8

MOUNTING THE FRONT COVER

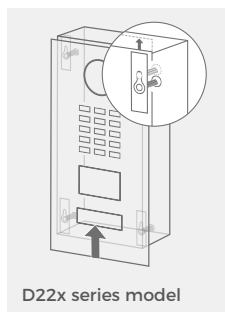
Mount the front cover including the main unit to the mounting back casing.



The mounting of the front cover varies depending on the series models and the models ordered via the DoorBird Configurator ("DBI" is part of the device name).

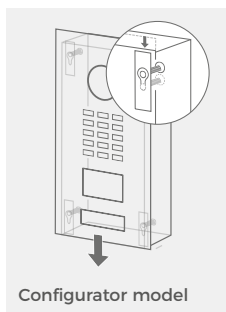


Press the front cover into the mounting back casing.



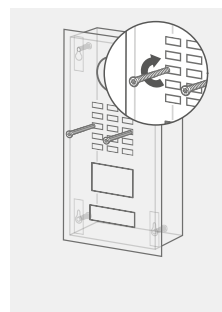
D22x series model

Slide the front cover upwards.



Configurator model

Slide the front cover downwards.



Insert and tighten the safety screws.

9

ACTIVATING THE DEVICE

Switch on the power leading to the assembly location again. Turn on the PoE+ switch/PoE+ injector that is connected to the device.

You can see if the device is powered by checking the Diagnostic-LED, which lights up after about 30 to 60 seconds after the power is connected. The device is ready for operation (booting up process, any software updates, etc.) once it has emitted a short diagnosis sound from the integrated loudspeaker. This may last for up to 5 minutes. If the Diagnostic LED does not light up, please check the power supply.

10

DOWNLOADING AND INSTALLING THE APP

Download the "DoorBird" App by Bird Home Automation onto your mobile device from the Apple App Store or Google Play Store. You can always find the most up-to-date version of the App manual on www.doorbird.com/support

Go to DoorBird App "Settings > Add device" and click on the QR code icon in the "User" field. Scan the user QR code found on the "Passaporto digitale" provided with the device.

If you have problems adding the device to the App, please check if the device is online (www.doorbird.com/checkonline). If the device is not online, please check the network connection and the power supply of the device.

DIAGNOSTIC-LED

You can see if the device is powered by checking the Diagnostic-LED, which lights up after about 30 to 60 seconds after the power is connected.

DIAGNOSTIC-SOUNDS

After around one to five minutes, the device emits brief diagnostic sounds after it has been connected to the power grid.

MOTION SENSOR

The device has a built-in Motion Sensor with 4D Technology. You can use it for numerous applications, e. g. to send an alarm to a mobile device or to switch a relay to turn on an outdoor light.

RFID READER

The built-in RFID reader can be used for many applications, e.g. to open/lock doors or arming/disarming your alarm system. For security reasons, the RFID reader has a very short range (0 - 3 cm, 0 - 1.18 in), so you must place the compatible RFID tag (key fob) very close to the RFID reader. You can configure the RFID reader using the DoorBird App or Webadmin.



The RFID reader works only on short distance, for security reasons.

API

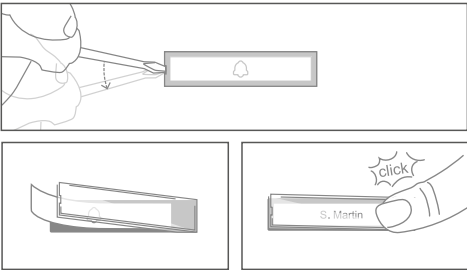
The device features a well documented API for third-party integration. For information, terms and conditions see www.doorbird.com/api

INTEGRATIONS

The device features many options to integrate it into third-party applications. For information, terms and conditions see www.doorbird.com/integrations

CHANGING THE LABEL OF A CALL BUTTON NAMEPLATE

Applies only to devices with 1 and more illuminated call buttons with nameplate.



Engraving Service



Engraving service for a modern and clean appearance: www.doorbird.com/engraving



Please follow STEP 1 to switch off power. We recommend to use a thin slot screwdriver to remove the cover of the nameplate. We recommend to use white paper for the label which does not absorb moisture.

CHANGING THE LABEL OF THE INFO MODULE



Applies only to devices with Info Module.

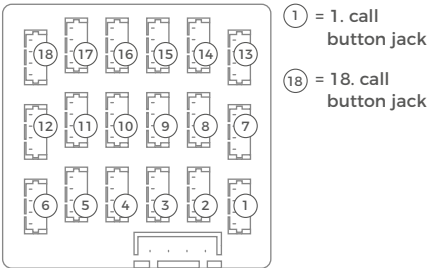
Please follow STEP 1 to switch off power and STEP 2 to open the device. You can then change the labeling of the Info Module in the inside. We recommend to use white paper for the label which does not absorb moisture.

CONNECTING CALL BUTTONS TO THE MULTI TENANT MODULE



Applies only to devices with 5 and more illuminated call buttons with nameplate.

Connect only call buttons to the Multi Tenant Module (e.g. Multi Tenant Module MTM18A) certified by Bird Home Automation.



MAINTENANCE FOR DOORBIRD PRODUCTS

Cleaning and maintenance instructions

All DoorBird door stations are made of high-quality materials and are designed for a durable lifetime. Since door stations are usually installed in unprotected outdoor areas, they are exposed to adverse weather conditions and aggressive substances, especially close to frequently used roads, in coastal and industrial areas. Therefore please consider the following care instructions. Unfortunately, we cannot accept any liability for damage if these instructions are not being observed.

Aggressive dirt such as bird droppings should be removed as quickly as possible.



Never use abrasive detergents such as steel wool or scouring milk!

Warm water is usually sufficient, if necessary with a little detergent, a soft cloth or brush. Plastic parts (camera or name tags) must not be treated with metal care products. Remove all residues of cleaning agents or lubricants to avoid stains or discolouration after the maintenance.

Stainless Steel

Only high-quality German stainless steel is used for all available DoorBird door stations. However, high-quality stainless steel can also rust, as approx. 70 % of stainless steel is made of iron. Rust resistance is only achieved by a protective layer (also called passive layer), which covers the iron like a skin. This protective layer consists essentially of chromium and other precious metals.

Iron particles, grinding dust and chips deposited on stainless steel can lead to corrosion (rust film). These iron particles can be found everywhere, but especially in coastal and industrial areas and close to frequently used roads. Please remove ferrous deposits immediately, as they will attack your door station and lead to real rust if not removed. To remove rust, simply wipe off the dust; in addition, a care product is recommended, e.g. WD 40, available e.g. at Amazon for less than € 5.00. Simply apply in a thin layer and rub in. The same applies if rust appears on the engravings on the stainless steel surface.

Cement or lime splashes should be carefully removed as soon as possible with a wooden spatula before hardening.

The following cleaning detergents are not to be used as they reduce corrosion resistance:

- products containing chloride and hydrochloric acid
- Bleach (in case of accidental use, rinse thoroughly with water)
- Silver polish

After the cleaning with clear water wipe with damp cloth and rub dry to avoid lime traces. Lime residues can be avoided by using demineralised water.

Stainless steel PVD coated

PVD coated, chrome-plated or gold-plated surfaces are recommended to be cleaned with a grease-dissolving detergent and clear water or with a clean and dust-free microfibre cloth. For high-gloss surfaces, use a scratch-free cloth (e.g. cleaning cloth for glasses, furniture polishing cloth, etc.).

Lacquered surfaces

Clean painted surfaces and lettering with a soft, scratch-free cloth moistened with a mild soap solution (e.g. cleaning cloth for glasses, furniture polishing cloth, etc.). To prevent stains or discolouration, the detergents should be wiped off without leaving any residue. Be particularly careful with lettering in order not to damage the film or the print.

Real burnished brass and architectural bronze

The surface finish „real burnished brass“ and „architectural bronze“ is a cold burnished finish, which is sealed with a boat wax. As the surface is open to diffusion, it is advisable to apply a subsequent layer of wax at intervals (approx. 6-18 months) using a soft cloth (flow cloth), allow it to soak in for a while and then rub it evenly dry with a dry cloth. We recommend a wax such as Teroson WX 990 by Henkel.

Chemical cleaning agents of any kind must NOT be used.

Avoid touching the surface with your fingers during installation. Wearing powder-free latex gloves is recommended.

Depending on the weather conditions, the processed surface may change, forming its characteristic, individual appearance.

TECHNICAL SPECIFICATIONS

GENERAL

Power supply	Power over Ethernet (PoE 802.3at Mode A/B)
Info Module	3.5", illuminated
Display Module	3.5" LCD (no touch function), illuminated, for the display of a 2-line free text and the name directory (max. 500 entries)
Touch Display Module	7" LCD, illuminated, for the display of a 2-line free text and the name directory (max. 3000 entries)
Keypad Module with 16 keys	• 16 keys, illuminated, configurable via App, e.g., • Individual PIN codes • Individual events (e.g., switch a relay, push notification, SIP call [audio/video], HTTP(s) request) • Individual schedules • Up to 3000 PIN codes manageable
Keypad Module with 12 keys	• 12 keys, illuminated, configurable via App, e.g., • Individual PIN codes • Individual events (e.g., switch a relay, push notification, SIP call [audio/video], HTTP(s) request) • Individual schedules • Up to 3000 PIN codes manageable
Fingerprint Reader Module 50	• Configurable via App • Individual events (e.g., switch a relay, HTTP(s) request) • Individual schedules • Up to 50 fingerprints manageable • Event history
Contactless call button Module	High-end radar motion sensor for reliable detection at close range Two-colour backlight (colour changes to green when motion detected) Individual events (e.g., open door, push notification, SIP etc.) Interchangeable text fields in 5 languages (DE, EN, ES, FR, IT) included
Accessibility module	Status display with three pictograms [calling, speaking, door opening], door opening acoustics and hearing loop Approval according to DIN 18040
Connectors	• RJ45, for LAN/PoE • Bistable self-holding switching relay #1 (NO/COM/NC), max. 24 V DC/AC, 1 ampere, e.g., for electric door openers • Bistable self-holding switching relay #2 (NO/COM/NC), max. 24 V DC/AC, 1 ampere, e.g., for electric door openers • External Input #1 • External Input #2 • Relays can be expanded or relocated using the DoorBird I/O Door Controller. • 1x USB Type-C module connector (touch display) • 12 V DC @ 0.48 A output, e.g., for an electric door opener • RS485, Wiegand, OSDP
Protection Class	IP65, IK08
Approvals	CE, FCC, IC, RoHS, REACH, WEEE, IEC/EN 62368, IEC/EN 62471
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 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, 5 Megapixel, 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, 2 infrared LEDs (850 nm)
Video	Video

AUDIO

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

NETWORK

Ethernet	RJ45 jack, PoE 802.3at Mode A/B, 10/100 Base-T
Supported protocols	HTTP, HTTPS, SSL/TLS, Bonjour, DNS, RTSP, RTP, TCP, UDP, RTPC, ICMP, DHCP, ARP, SIP, DTMF (RTP [RFC-2833], SIP INFO [RFC-2976]), STM, WebRTC

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

VANDALISM PROTECTION

Vandalism sensor	Integrated sensor for real-time detection of mechanical manipulation (e.g., removal of the device).
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125 KHZ RFID READER

Type	Active Reader Passive Tag (ARPT) System
Standard	ISO/IEC 18000-2:2009 Part 2, EM4100, EM4102
Frequency	125 kHz
Range	0 - 3 cm (0.118 in), depends on environment
Antenna	Internal
Compatible Transponder	RFID key fobs, sold separately, see www.doorbird.com/buy Up to 3000 tags can be managed.
Configuration	• Via App, for example • Tag (add/delete) • Custom events (e.g., triggering a relay, SIP call [audio/video], HTTP(s) notification) • Individual schedules

125 KHz RFID reader	125 KHz RFID reader
---------------------	---------------------

13.56 MHZ RFID READER

Type	Active Reader Passive Tag (ARPT) System
Standard	UID (CSN) from: MIFARE Classic®, MIFARE DESFire® EV1 and EV2, ISO14443A, ISO14443B, ISO15693, NFC® (HCE support required)
Frequency	13.56 MHz
Range	0 - 3 cm (0.118 in), depends on environment
Antenna	Internal
Compatible Transponder	RFID key fobs, sold separately, see www.doorbird.com/buy Up to 3000 tags manageable
Encryption	Requires a DoorBird Cloud Pro or DoorBird Cloud Enterprise license.
Configuration	Via App, for example • Tag (add/delete) • Custom events (e.g., triggering a relay, SIP call [audio/video], HTTP(s) notification) • Individual schedules

OSDP

OSDP	Hardware ready, enabled later on with software update
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RS485

RS485	Hardware ready, enabled later on with software update
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WIEGAND

Direction	Input, output: Hardware ready, enabled later on with software update
Supported protocols	26, 30, 31, 34, and 44 bits
Supported data transmission	125 kHz RFID transponders, 13.56 MHz RFID transponders, keypad PIN codes
Maximum cable length	Max. 150 m (492 ft)
Voltage	When no data is being transmitted, both DATA0 and DATA1 are pulled up to the „high“ voltage level, +5 V DC. The interface is electrically isolated.
Configuration	Via App, e.g., log and interface on/off

INTEGRATED WIRELESS MODULES

RFID	125 KHz, 13.56 MHz, can be disabled
Sensor	24 GHz, can be disabled
Bluetooth	Bluetooth Low Energy (BLE), compatible with DoorBird Bluetooth Keyfob Remote A8007

THIRD-PARTY INTEGRATION (DOORBIRD CONNECT)

Partner integrations	See www.doorbird.com/integrations
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
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* Only contained in certain models or configurations

LEGAL NOTES

General remarks

1. DoorBird is a registered trademark of Bird Home Automation GmbH.
2. Apple, the Apple logo, Mac, Mac OS, Macintosh, iPad, Multi-Touch, iOS, iPhone and iPod touch are trademarks of Apple Inc.
3. Google, Android and Google Play are trademarks of Google, Inc.
4. The Bluetooth® word mark and logos are registered trademarks of Bluetooth SIG, Inc.
5. QR Code is a registered trademark of Denso Wave Incorporated in Japan and other countries.
6. All other company and product names may be trademarks of the respective companies with which they are associated.
7. We reserve the right to make changes to our products in the interests of technical advancement. The products shown may also look different from the products supplied based on ongoing enhancement.
8. Reproducing or using texts, illustrations and photos from this instruction manual in any media – even if only in the form of excerpts – shall only be permitted with our express written consent.
9. The design of this manual is subject to copyright protection. We do not accept any liability for any errors or any erroneous content or printing errors (even in the case of technical specifications or within graphics and technical sketches).
10. Our products are in compliance with all technical guidelines, electrical and telecommunications regulations applicable in Germany, the EU and the USA.
11. Our products and also the components contained therein (ICs, software, etc.) may only be used for civilian non-military purposes.

Data privacy and data security

1. For maximum security, the device uses the same encryption technologies as are used in online banking. For your security, no port forwarding or DynDNS is used either.
2. The data centre location for remote access over the Internet by means of an App is obligatory in the EU if the determined Internet IP-Address location of the device is within the EU. The data centre is operated in line with the most stringent security standards.
3. Video, audio and any other surveillance methods can be regulated by laws that vary from country to country. Check the laws in your local region before installing and using this device for surveillance purposes.

If the device is a door-, indoor station or camera:

- In many countries video and voice signal may only be transmitted once a visitor has rung the bell (data privacy, configurable in the App).
- Please carry out the mounting in such a way that the detection range of the camera limits the device exclusively to the immediate entrance area.
- The device may come with a visitor history and motion sensor. You can activate/deactivate this function if required.

If necessary, indicate the presence of the device in a suitable place and in a suitable form.

Please observe any relevant country-specific statutory regulations concerning the use of surveillance components and surveillance cameras applicable at the installation site.

Check with the property owner and your house community if you are allowed to install and use this product. Bird Home Automation GmbH cannot be held responsible for any miss-use or miss-configuration of this product, including the unauthorized opening of a door.

Bird Home Automation cannot be held responsible for damages caused by improper existing installations or improper installation.

Software and operating system's updates (so-called "firmware updates") are generally automatically installed on the products of Bird Home Automation GmbH via Internet, if technically possible. Automatic firmware updates keep the products' software up to date so that they always work reliably, safely and efficiently. Through further development, features can be added, extended or slightly changed. Major changes or limitations to existing features will generally occur if Bird Home Automation GmbH deems it necessary (e.g. for data protection, data security or stability reasons, or to keep them up to date). When a firmware update is available, Bird Home

Automation GmbH's servers generally automatically distribute it to all compatible products connected to the Internet or Bird Home Automation GmbH's servers. This process is gradual and can take several weeks. As soon as a product receives a firmware update, the system will be installed and will restart by itself. Installed firmware updates cannot be undone. Since the products and software of Bird Home Automation GmbH are not explicitly customer-specific products, a customer cannot deny an automatic update if the product is connected to the Internet or to the Bird Home Automation GmbH's server.

Publisher

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Email: hello@doorbird.com

It is possible that these manual still contains typographical errors or printing errors. The information in this manual will be checked regularly and corrections will be made in the next version. We accept no liability for errors of a technical or printing nature and their consequences.

INSTALLATIONSANLEITUNG

Lesen Sie diese Anleitung sorgfältig, bevor Sie die Komponenten in Betrieb nehmen. Bewahren Sie die Anleitung zum späteren Nachschlagen auf!

Wenn Sie das Gerät anderen Personen zur Nutzung überlassen, übergeben Sie auch diese Bedienungsanleitung.

Die stets aktuelle Version der Installationsanleitung finden Sie unter www.doorbird.com/de/support

Zur Vereinfachung der Begriffe verwenden wir „Gerät“ für das Produkt „IP Video Türstation“ sowie „mobiles Endgerät“ für ein Smartphone/Tablet.

Haftung

Die Erstellung dieses Dokuments wurde sorgfältig vorbereitet. Bitte informieren Sie Bird Home Automation GmbH über etwaige Ungenauigkeiten oder Unterlassungen. Bird Home Automation GmbH kann nicht für technische oder typografische Fehler verantwortlich gemacht werden und behält sich das Recht vor, Änderungen an dem Produkt und den Handbüchern ohne vorherige Ankündigung vorzunehmen. Bird Home Automation GmbH übernimmt keinerlei Garantie in Bezug auf das in diesem Dokument enthaltene Material, einschließlich, aber nicht beschränkt auf die implizierten Garantien der Marktgängigkeit und Eignung für einen bestimmten Zweck. Bird Home Automation GmbH haftet nicht für Neben- oder Folgeschäden im Zusammenhang mit der Bereitstellung, Durchführung oder Verwendung dieses Materials. Das Gerät darf nur für den vorgesehenen Zweck verwendet werden.

Gerätemodifikationen

Dieses Gerät muss in Übereinstimmung mit den Anweisungen in der Installationsanleitung installiert und verwendet werden. Dieses Gerät enthält keine vom Benutzer zu wartenden Komponenten. Durch unbefugte Gerätemodifikationen oder Änderungen erlöschen alle anwendbaren Zertifizierungen und Zulassungen.

Verwendete Symbole



Achtung: Weist auf eine gefährliche Situation hin, die, falls nicht verhindert, zum Tod oder schweren Verletzungen führt.



Warnung: Weist auf eine gefährliche Situation hin, welche, falls nicht verhindert, zum Tod oder schweren Verletzungen führen kann.



Vorsicht: Weist auf eine gefährliche Situation hin, welche, falls nicht verhindert, zu geringfügiger oder mäßiger Verletzung führen kann.



Bitte beachten: Weist auf eine gefährliche Situation hin, welche, falls nicht verhindert, zu Sachschäden führen kann.



Wichtig: Weist auf wichtige Informationen hin, die den richtigen Betrieb des Produkts gewährleisten.

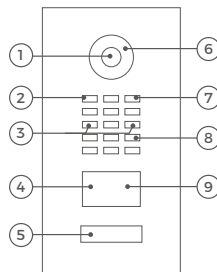


Hinweis: Weist auf nützliche Informationen hin, die die optimale Verwendung des Geräts unterstützen.

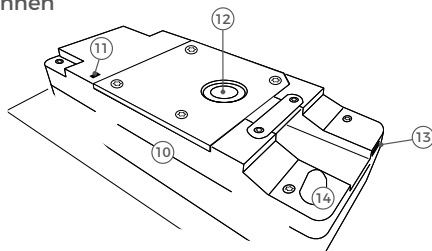
Bitte beachten Sie die Warn- und Sicherheitshinweise in unserem Begleitheft oder online: <https://www.doorbird.com/downloads/warnings.pdf>

GERÄT MIT EINER RUFTASTE

Vorderseite



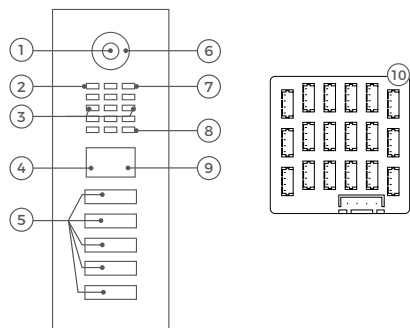
Innen



- 1) 5 MP Video
- 2) Lichtsensor
- Für den Nachtsichtmodus
- 3) Sicherheitsschrauben
- 4) Bewegungssensor
- 5) Beleuchtete Ruftaste mit Namensschild
- 6) Nachtsicht-LEDs
- 7) Mikrofon
- 8) Lautsprecher
- 9) RFID-Leser
- 10) Elektrische Haupteinheit
- 11) Diagnose-LED
- 12) Kabeleinführung (optional)
- 13) USB-Typ-C-Anschluss für zertifizierte Module von Bird Home Automation
- 14) Sabotage-Kontakt

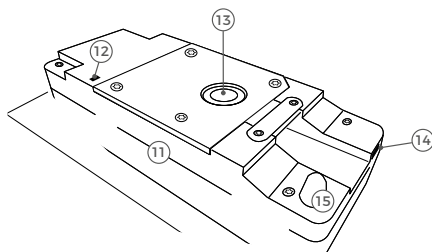
GERÄT MIT 5 ODER MEHR RUFTASTEN

Vorderseite



- | | |
|-------------------------|---------------------|
| 1) 5 MP Video | 6) Nachtsicht-LEDs |
| 2) Lichtsensor | 7) Mikrofon |
| Für den | 8) Lautsprecher |
| Nachtsichtmodus | 10) Mehrteilnehmer- |
| 3) Sicherheitsschrauben | Modul MTM18A |
| 4) Bewegungssensor | 11) Elektrische |
| 5) Beleuchtete Ruftaste | Haupteinheit |
| mit Namensschild | |

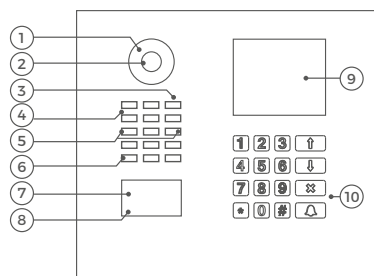
Innen



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|--|
| 12) Diagnose-LED |
| 13) Kabeleinführung (optional) |
| 14) USB-Typ-C-Anschluss für zertifizierte Module von |
| Bird Home Automation |
| 15) Sabotage-Kontakt |

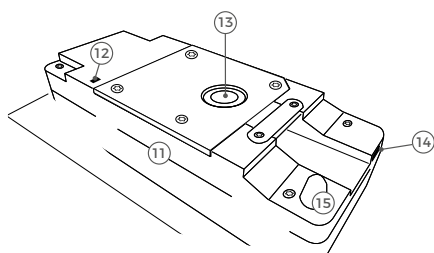
GERÄT MIT DISPLAY-MODUL UND KEYPAD-MODUL

Vorderseite



- | | |
|-------------------------|--------------------|
| 1) Nachtsicht-LEDs | 6) Lautsprecher |
| 2) 5 MP Video | 7) RFID-Leser |
| 3) Mikrofon | 8) Bewegungssensor |
| 4) Lichtsensor | 9) Display-Modul |
| Für den | 10) Keypad-Modul |
| Nachtsichtmodus | 11) Elektrische |
| 5) Sicherheitsschrauben | Haupteinheit |

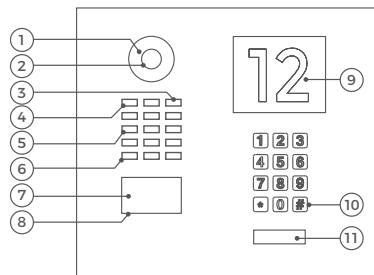
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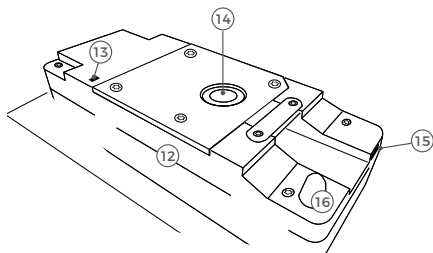
- | |
|--|
| 12) Diagnose-LED |
| 13) Kabeleinführung (optional) |
| 14) USB-Typ-C-Anschluss für zertifizierte Module von |
| Bird Home Automation |
| 15) Sabotage-Kontakt |

GERÄT MIT INFO-MODUL UND KEYPAD-MODUL

Vorderseite



Innen

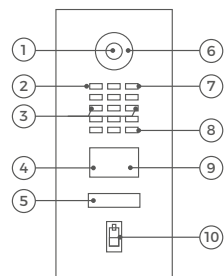


- | | |
|-------------------------|---|
| 1) Nachtsicht-LEDs | 7) RFID-Leser |
| 2) 5 MP Video | 8) Bewegungssensor |
| 3) Mikrophon | 9) Info-Modul |
| 4) Lichtsensor | 10) Keypad-Modul |
| 5) Sicherheitsschrauben | 11) Beleuchtete Ruftaste mit Namensschild |
| 6) Lautsprecher | 12) Elektrische Haupteinheit |

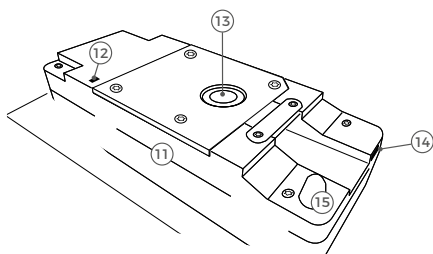
- | |
|---|
| 13) Diagnose-LED |
| 14) Kabeleinführung (optional) |
| 15) USB-Typ-C-Anschluss für zertifizierte Module von Bird Home Automation |
| 16) Sabotage-Kontakt |

GERÄT MIT FINGERABDRUCKLESER-MODUL

Vorderseite



Innen

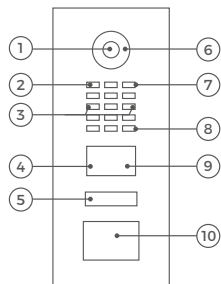


- | | |
|-------------------------|------------------------|
| 1) 5 MP Video | mit Namensschild |
| 2) Lichtsensor | 6) Nachtsicht-LEDs |
| 3) Sicherheitsschrauben | 7) Mikrophon |
| 4) Bewegungssensor | 8) Lautsprecher |
| 5) Beleuchtete Ruftaste | 9) RFID-Leser |
| | 10) Fingerabdruckleser |

- | |
|---|
| 11) Elektrische Haupteinheit |
| 12) Diagnose-LED |
| 13) Kabeleinführung (optional) |
| 14) USB-Typ-C-Anschluss für zertifizierte Module von Bird Home Automation |
| 15) Sabotage-Kontakt |

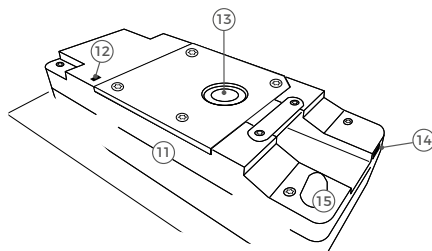
GERÄT MIT BERÜHRUNGSLOSEN RUFTASTENMODUL

Vorderseite



- | | |
|-------------------------|---------------------|
| 1) 5 MP Video | 6) Nachtsicht-LEDs |
| 2) Lichtsensor | 7) Mikrofon |
| Für den | 8) Lautsprecher |
| Nachtsichtmodus | 9) RFID-Leser |
| 3) Sicherheitsschrauben | 10) Berührungsloses |
| 4) Bewegungssensor | Ruftastenmodul für |
| 5) Beleuchteter | das kontaktlose |
| Ruftaster mit | klingeln |
| Namensschild | |

Innen



- | |
|--|
| 11) Elektrische Haupteinheit |
| 12) Diagnose-LED |
| 13) Kabeleinführung (optional) |
| 14) USB-Typ-C-Anschluss für zertifizierte Module von |
| Bird Home Automation |
| 15) Sabotage-Kontakt |



Einige Türstationen der D22x Serie verfügen je nach Ausstattung über ein optionales Zusatzmodul für Barrierefreiheit inkl. Zustandsanzeige mit drei Piktogrammen [Rufen, Gespräch, Türöffnung], Türöffnungsakustik und Hörschleife. Das Modul erfüllt bei korrekter Installation DIN 18040 (Barrierefreies Bauen). Die Stromversorgung für die Hörschleife muss aufgrund der hohen Leistungsaufnahme mit separatem Netzteil erfolgen (15 – 48 VDC, 1 A).

VIDEOS

Sie können sich durch die Installation mit unseren Installationsvideos auf www.doorbird.com/support begleiten lassen. In den Videos wird jeder Installationsschritt einzeln und gut dokumentiert dargestellt.

INSTALLATION

Alle folgenden Schritte sollten von einem fachkundigen Erwachsenen sorgsam und unter Berücksichtigung sämtlicher geltender Schutzvorschriften durchgeführt werden. Sollten Sie Fragen haben, wenden Sie sich bitte direkt an uns oder einen kompetenten Fachmann. Achten Sie darauf, dass alle Drähte, die Sie für die Installation verwenden, über die gesamte Länge unbeschädigt und für die Verwendungsart zugelassen sind.

Netzwerkgeschwindigkeit und Netzwerkkomponenten

Stellen Sie sicher, dass Ihre Internetverbindung über mindestens 0,5 Mbit/s Uploadgeschwindigkeit verfügt. Sie können über die DoorBird App jederzeit auch einen Geschwindigkeitstest durchführen. Das Nutzererlebnis ist nur so gut wie die Netzwerkgeschwindigkeit, Netzwerkstabilität und Qualität Ihrer Netzwerkkomponenten, wie z.B. Ihr Internet Router und WLAN Access Points oder WLAN Repeater. Stellen Sie sicher, dass Ihre Netzwerkkomponenten nicht älter als zwei Jahre sind, von einem namhaften Hersteller gefertigt wurden und über die neuste Firmware verfügen. Sind diese Voraussetzungen nicht erfüllt, kann es z.B. dazu kommen, dass Audio- und Videoverbindungen schlecht sind oder Push-Nachrichten verzögert oder gar nicht auf Ihrem Smartphone oder Tablet ankommen.

Anforderungen:

High Speed Internet (Festnetz): DSL, Kabel oder Glasfaser
Netzwerk: Ethernet Netzwerk, mit DHCP

1

STROM ABSCHALTEN



Schalten Sie den Strom sämtlicher zum Montageort führenden Leitungen ab, d.h. z.B. den Strom für die Türstation, den Türgong, elektrischen Türöffner, PoE-Switch/PoE-Injektor etc.

2

DEMONTAGE DER BESTEHENDEN TÜRKLINGEL

Demontieren Sie, falls an der Hauswand bereits vorhanden, die bestehende Türklingel bzw. Türstation.

3

MONTAGEORT FESTLEGEN

Das Gerät verwendet eine hemisphärische Ultraweitwinkel Linse, so dass selbst bei einem minimalen Abstand der Person von 50 cm (19.68 in) zum Gerät eine geringe Montagehöhe ausreicht. Daher ist das Objektiv auch mechanisch nicht verstellbar. Die Kameralinse sollte sich auf einer Höhe von mindestens 145 cm (57 in) befinden. Sie sollten die korrekte Höhe vor der endgültigen Montage testen.

Achten Sie bei der Wahl des Montageortes auf die Lichtverhältnisse. Vermeiden Sie direktes Sonnenlicht, direktes Gegenlicht und reflektierende Oberflächen.

Das Netzkabel zwischen dem Gerät und dem PoE-Switch/PoE-Injektor/Internet-Router darf eine maximale Länge von 80 Metern haben (IEEE 802.3).

4

ENTFERNEN DES GEHÄUSES (NUR BEI BESTELLUNGEN ÜBER DEN DOORBIRD 3D-KONFIGURATOR)

Verwenden Sie den mitgelieferten Schraubendreher, um die Frontblende einschließlich des Haupteinheit vorsichtig vom Rückgehäuse zu entfernen.



Wenn das Rückgehäuse separat mitgeliefert wird und nicht an der Frontblende montiert ist, überspringen Sie bitte diesen Schritt.

NOTICE

Setzen Sie das Gerät keinem direktem Sonnenlicht aus. Die Gehäusetemperatur kann die maximal zulässige Temperaturgrenze überschreiten. Dies kann zu Beschädigungen elektrischer und mechanischer Komponenten des Geräts und zu Verletzungen führen, insbesondere bei der Berührung von Außenteilen des Geräts. Weiße und helle silberfarbene Frontblenden absorbieren weniger Sonnenlicht als dunkle.

NOTICE

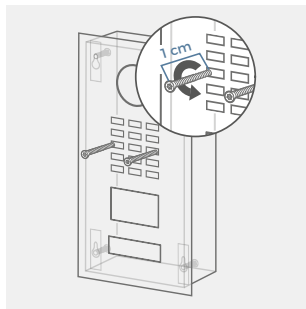
Ein Bildsensor darf keiner direkten Sonneneinstrahlung über längere Zeit ausgesetzt werden. Direkte Sonneneinstrahlung lässt die Kamera „erblinden“ und kann die kleinen Farbfilter auf dem Bildsensorchip dauerhaft beschädigen.



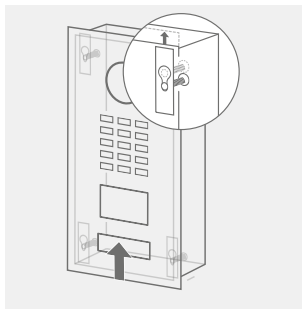
Ein durch direkte Sonneneinstrahlung hervorgerufener Defekt ist nicht von der Gewährleistung abgedeckt.



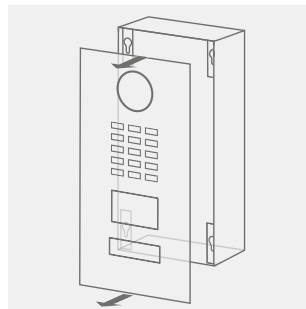
Wenn Sie nur zwei Drähte am Montageort zur Verfügung haben, können Sie den „2-Draht Ethernet PoE+ Konverter A1072“ verwenden, der separat erhältlich ist. Er ermöglicht es Ihnen, Netzwerkdaten (Ethernet) und Strom (PoE) über eine einfache Zweidrahtleitung über weite Strecken hinweg zu übertragen. So können Sie Bestandsgebäude, die z.B. nur über einen einfachen zweiadrigen Klingeldraht verfügen, mit Netzwerktechnologie ausstatten, ohne hierfür nachträglich ein Netzkabel verlegen zu müssen.



Sicherheitsschrauben 1 cm herausdrehen.



Frontblende nach oben schieben.



Frontblende zu sich heranziehen.