

ELAN[®]

Intelligent Video Doorbell



EL-DB-BR | EL-DB-BK | EL-DB-NI

Quick Install Guide

Thank you for including the ELAN Video Doorbell as part of the ELAN video and interface solution for your customer. It has been designed to provide years of trouble free operation when wired and installed properly.

Included in the box

- 1ea Video Doorbell
- 1ea Pigtail Cable Connector
- 1ea Rough-in Mounting Bracket
- 1ea Mounting Hardware and Gaskets
- 1ea Security Screw Driver
- 3ea Extra Security Screws

SPECIFICATIONS

DIMENSIONS

Faceplate Size

3.5 x 5.67 x .375 (in) / 89 x 144 x 9.5 (mm)
Weight 0.55 lbs / .25 Kg

In-Wall Mounting Enclosure

2.87 x 4.7 x 1.97 (in) / 73 x 119.9 x 49.85 (mm)

Surface Mounting Enclosure

3.5 x 5.67 x 1.3 (in) / 89 x 144 x 33 (mm)

CONNECTIONS

Power: PoE - IEEE 803.2
48V / 13W (270mA) max.

Ethernet: 100 Mbps

Door Chime Relay: NO, rated 24VAC, 2A

Door Strike Relay: NO / NC dry contact,
rated 24VAC / 2A

Door Sensor: 5VDC–12VDC voltage
detection

Camera

Resolution: 720p

FPS: 30

Field of View: 140 degrees

Camera *(continued)*

Exposure: Automatic

Monitoring: Integrates with ELAN
Surveillance (NVR)

Microphone / Speaker

Audio: Full-Duplex

Processing: Echo / Noise cancellation

Volume, Equalization, Sensitivity:
Adjustable in software

Proximity Sensor

Type: Passive Infra-Red (PIR)

Detection: IntelliVision® Analytics

reduces false positives

Range: Up to 5M, adjustable in software

Field of View: 120 degrees

General

Light Ring: Tunable color via software

Temperature Range:

-13F to 131F (-25C to 55C)

Humidity Tolerance: Up to 90%

Protection Rating: IP65

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
12. If a Class I PoE adapter or switch is used to provide power, be sure that the power cord is firmly plugged into the socket and confirm the main earth connection.

CONSIGNES DE SÉCURITÉ IMPORTANTES

1. Lisez ces instructions.
2. Gardez ces instructions.
3. Respectez tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas cet appareil près de l'eau.
6. Nettoyez uniquement avec un chiffon sec.
7. Installez conformément aux instructions du fabricant.
8. Ne pas installer près de sources de chaleur telles que des radiateurs, bouches de chaleur, cuisinières ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. Utilisez uniquement les accessoires/pièces jointes spécifiés par le fabricant.
10. Débranchez cet appareil en cas d'orage ou lorsque vous ne l'utilisez pas pendant longtemps.
11. Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire si l'appareil subit un dommage, par exemple si le cordon d'alimentation ou la fiche est endommagé, si un liquide a été renversé ou si des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou est tombé.
12. Si vous utilisez un adaptateur ou un commutateur PoE de classe I comme source d'alimentation, assurez-vous que le cordon d'alimentation est branché fermement dans la prise et assurez-vous qu'il s'agit d'une prise de terre.

FCC AND IC INFORMATION:

This Class B digital apparatus complies with Part 15 of the FCC rules and with Canadian ICES-003

Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3B / NMB-3B

ATTENTION:

This ITE is to be connected only to PoE networks without routing to the outside plant or equivalent. This product is intended to be supplied by a UL Listed Power Adapter or DC power source marked "L.P.S." (or "Limited Power Source"), rated 12 VDC, 2A max, Tma = 55 degree C or 48Vdc/13W (270mA) Gigabit Passive PoE injector, 802.3af/at PSE.

ATTENTION :

Cet ITE doit être connecté uniquement à des réseaux PoE sans acheminement vers une installation externe ou équivalente. Ce produit doit être alimenté par un adaptateur secteur homologué UL ou par une source d'alimentation CC marquée « LPS ». (ou « source d'alimentation limitée »), tension nominale de 12 VDC, 2A max, Tma = 55 °C ou 48Vdc/13W (270 mA), injecteur PoE passif Gigabit, 802,3af/à PSE.

WARNING:

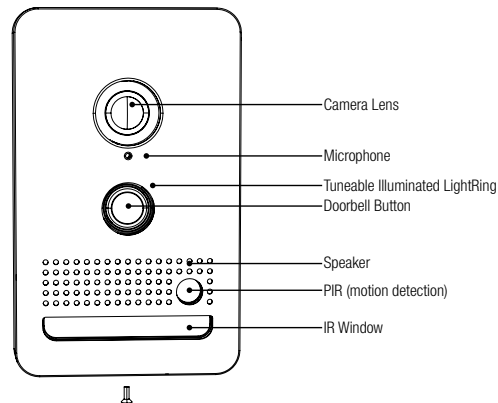
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ATTENTION:

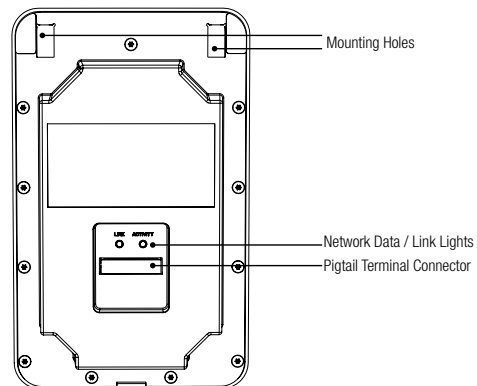
Les changements ou modifications apportés à cet appareil non expressément approuvés par la partie responsable de la conformité peuvent annuler l'autorité de l'utilisateur à utiliser l'équipement.

OVERVIEW

FRONT



BACK



PLANNING THE INSTALLATION

The ELAN Video Doorbell is primarily designed to be mounted in a portrait orientation. It can be mounted in a landscape orientation, but the image will need to be rotated using the ELAN configurator application (for more detail, please see the Integration Note).

The video doorbell can be mounted flush using the included rough-in mounting bracket, or surface mounted using the optional Surface Mount Box.

Power may be supplied by Power Over Ethernet (PoE) or by a 12V 2A DC power supply (not included). PoE must meet the IEEE 802.3at standard. The video doorbell connects to the local network via a hard wired Ethernet connection.

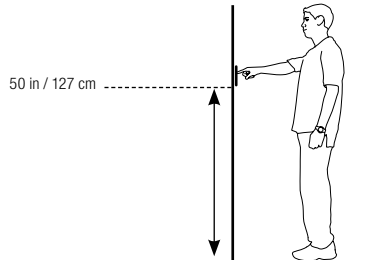
The video doorbell includes the following connections using the pigtail connector:

Description	Designator
Network / PoE (RJ45)	
DC input, positive (red)	+
DC input, negative (black)	-
Door strike relay, normally closed contact	NC
Door strike relay, common contact	COM
Door strike relay, normally open contact	NO
Door sensor input, positive	DI+
Door sensor input, negative	DI-
Door Chime relay	DB+
Door Chime relay	DB-

INSTALLING THE VIDEO DOORBELL

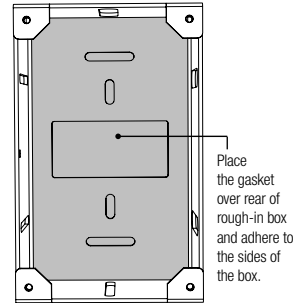
a. Mounting Height

The bottom of the video doorbell should be mounted at a minimum height of 50 in / 127 cm from the ground for optimized video coverage.



b. Rough-in

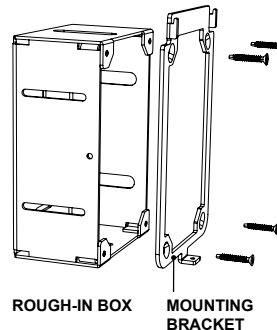
The video doorbell mounts to the EL-DB-MB rough-in box using the included mounting bracket. If surface mounting, use the optional surface mount kit without the rough-in box. See section f. Mounting - Surface



Place the vapor barrier in the rear of the rough-in box and adhere the flaps to the inside of the box. Once the vapor barrier is in place, cut a slice to allow cable routing.

Mounting to an ELAN DBK-100 Rough-in Box

The video doorbell can be mounted to the ELAN DBK-1000 rough-in mounting box. If mounting to a DBK-1000, place the vapor barrier in the rear of the DBK-1000 mounting box and adhere the flaps to the inside of the box. Once the vapor barrier is in place, cut a slice to allow cable routing.



Attach the rough-in box to the structure. The rough in box can be adjusted in / out to accommodate different finish thicknesses. Use the narrow slots to attach the screws, the wider slots are used for tool access. Attach the adhesive gasket to the mounting bracket (note the alignment of the holes on the bracket and the gasket making sure they line up before adhering it). Next, attach the mounting bracket to the rough-in box using the included #6 Phillips head screws.

c. Make the Connections

Connect using the included pigtail connector. Route the connections through the large opening on the back of the rough-in box.

Connecting to the network / PoE

Connect to the LAN using the RJ45 connector. If connecting using a PoE switch an additional power source is not necessary. Optionally, the video doorbell can be powered using a 12V 2A power supply (not included).

Connecting Power

While using PoE is recommended, the DC input can be used optionally where PoE is not available. Using a 12V 2A power supply, connect to the DC input connector. Red wire is positive, black wire is negative. Do not connect PoE and DC power simultaneously.

Connecting the Relay

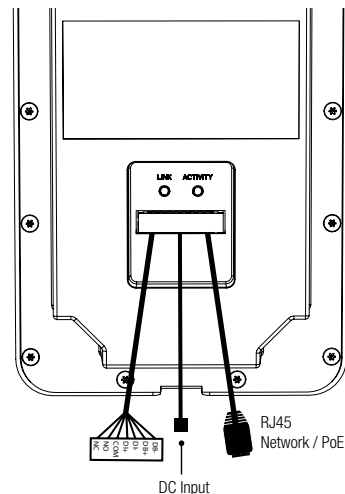
The video doorbell includes a relay to open a gate or electronic door strike that can be triggered via the ELAN system. The relay provides normally open and normally closed contacts to support fail safe or fail secure operation. Refer to your gate opener instructions for configuration information.

Connecting the Door Sensor Input

The video doorbell interfaces to a door sensor such as a magnetic contact switch. Connect the wires of the door sensor to the DI+ and DI- inputs on the terminal connector. The door sensor will need to be set up as normally-open or normally-closed. An external 12VDC power supply must be connected through the door sensor to the video doorbell. Refer to the wiring diagram on page 10.

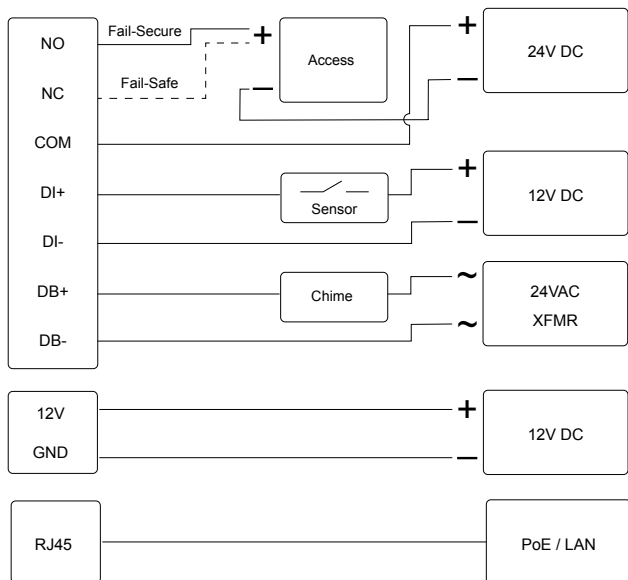
Connecting the Door Chime Relay

The video doorbell can ring a standard door chime. Connect the positive and negative terminals to the DB+ and DB- inputs on the terminal connector.



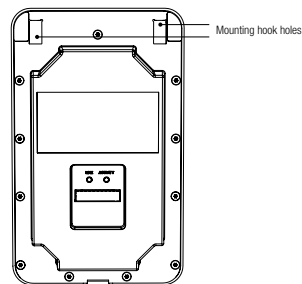
Note: the RJ45 connector block should be on the right side of the terminal connector, as shown here.

d. Wiring

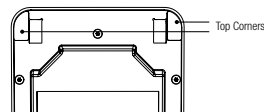


e. Mounting – Rough-in

Once the the rough-in bracket has been installed and connections are made, the video doorbell can be mounted.

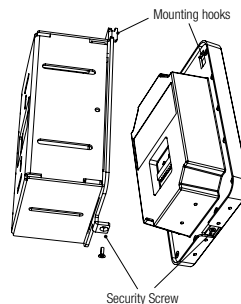


Connect the pigtail connector to the network, power, relay, door sensor, or door chime as necessary, described in section c. Route the end of the pigtail connector through the large hole in the rough-in box from the rear.



Connect the pigtail terminal to the video doorbell.

Add the small adhesive pieces to top corners on the back of the video doorbell.



Place the video doorbell on the mounting hooks and slide the video doorbell down.

Using the included screw driver and M2 screw, attach the video doorbell to the bottom tab of the mounting bracket.

f. Mounting - Surface

The video doorbell can be surface mounted using the optional surface mount box (sold separately in each color).

Connect the pigtail connector to the network, power, relay, door sensor, or door chime as necessary, described in section b.

Route the end of the pigtail connector through the large hole in the surface mount box from the rear.

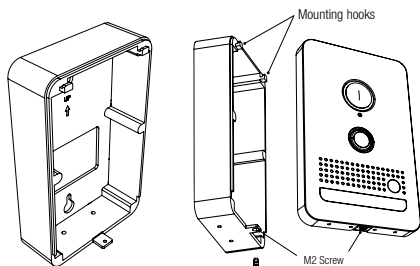
Attach the adhesive gasket from the Video Doorbell kit to the rear of the surface mount box and attach the surface mount box to the wall.

Connect the pigtail terminal to the video doorbell.

The surface mount box does not accommodate the pigtail connector which should be placed in the wall behind the doorbell using a 1.5" opening in the wall.

If a 1.5" inch opening behind the surface mount box cannot be made and is too small to fit the connectors, the two terminal block connectors can be removed. If necessary, those connections can be wired directly.

If the opening is still too small to fit the RJ45 connector, that connector can also be trimmed off and the connections can be wired directly (see Ethernet wiring on the following page).



Place the video doorbell on the mounting hooks and slide the video doorbell down.

Using the included screw driver and M2 screw, attach the video doorbell to the bottom tab of the mounting bracket.

g. Ethernet Wiring

ELAN Video Doorbell	Standard (TIA568B)
White + Orange	White + Orange
Orange	Orange
White + Green	White + Green
White + Red	Blue
Red	White + Blue
Green	Green
White + Black	White + Brown
Black	Brown

TROUBLESHOOTING

a. Factory Reset

Reset a unit to DHCP:

1. Disconnect power from the unit
2. Press and hold the doorbell button and connect power
3. Continue to hold the doorbell button for 20 seconds until the LightRing flashes red
4. Connect directly to the video doorbell using a static IP address on a PC
 - a. Set the PC to a static IP address of 192.168.100.99.
 - b. Connect the video doorbell directly to the PC using an Ethernet cable (if connecting through a switch, disconnect any other devices)
 - c. Using a web browser navigate to 192.168.100.100
 - d. Navigate to the System tab and click restore defaults to reset to DHCP or navigate to the Network tab and select the dropdown for DHCP

LIMITED WARRANTY

Nortek Security & Control ('NSC') warrants the ELAN Video Doorbell to be free from defects in materials and workmanship for the period of two years (2 years) from the date of purchase. If within the applicable warranty period above purchaser discovers that such item was not as warranted above and promptly notifies 'NSC' in writing, 'NSC' shall repair or replace the item at the company's option. This warranty shall not apply (a) to equipment not manufactured by 'NSC', (b) to equipment which shall have been installed by other than an 'NSC' authorized installer, (c) to installed equipment which is not installed to 'NSC's' specifications, (d) to equipment which shall have been repaired or altered by others than 'NSC', (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond 'NSC's' control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or other catastrophic events beyond 'NSC's' control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by 'NSC', the warranty obligations of 'NSC' shall in all respects conform to the warranty actually extended to 'NSC' by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation or other expenses which may be incurred in connection with repair or replacement. Except as may be expressly provided and authorized in writing by 'NSC', 'NSC' shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by 'NSC' or services rendered by 'NSC'.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES EXCEPT WARRANTIES OF TITLE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

ATTENTION: TO OUR VALUED CUSTOMERS

To ensure that customers obtain quality pre-sale and after-sale support and service, Nortek Security & Control products are sold exclusively through authorized dealers. Nortek Security & Control products are not sold online.

The warranties on Nortek Security & Control products are NOT VALID if the products have been purchased from an unauthorized dealer or an online E-tailer. To determine if your Nortek Security & Control reseller is authorized, please call Nortek Security & Control at (707) 283-5900.



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