Installation/Owner's Manual

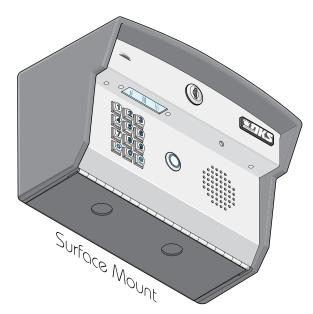
Model 2112

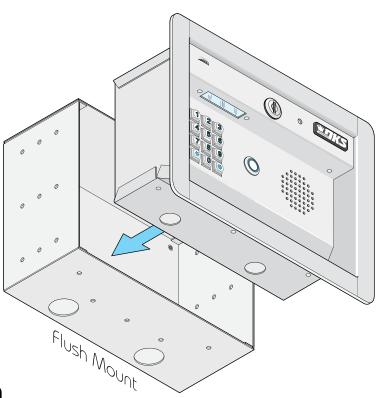
Internet/Cellular Programmable Video Telephone/Access Control System

Use this manual for circuit board 8863-010 Revision C or higher.

2112-065-K-3-22

Control a main door / gate and two other entry points





Download the smart phone App (DKS 2112 Resident App) at:





Android-version 8 or higher OR iphone 6-with IOS 9 or higher

Date Installed:

Installer/Company Name: _____

Phone Number:

Circuit Board Serial Number and Revision Letter:_

Leave Manual with Owner

Register and Program your Entry System at: https://dks2112.com

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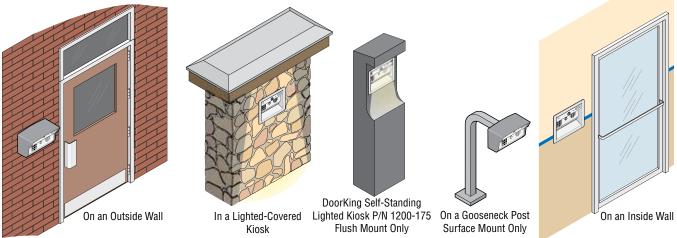
FEATURES

2112 Video Entry System

- · User provided internet connection standard
- Optional cellular connection available
- Programming via Internet Browser
- DKS 2112 Resident App
- All programming is shared in the cloud and system memory
- Updates show as they occur
- · Cloud Based system
- Built-in IP Camera for Video Calling
- Broadcast Calling (up to four numbers simultaneously)
- Up to 10 residents with a maximum of four (4) phone numbers per resident
- Up to 25 entry codes, four (4) or five (5) digits
- Do Not Call schedule
- Hold Open schedule
- Entry Code schedule
- · Microphone / Speaker volume control through browser manager
- Relay status: Open Close Held Open
- Relay (Entry Point) names, Three (3) type C relays, 1A max
- Independent relay strike times
- Events log
- Relay (door/gate) control: Open Close Hold Open

Mounting Options

- Surface mount cellular model requires additional internal cellular module kit.
- Flush mount cellular model requires additional external cellular module kit.



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SPECIFICATIONS

Surface Mount Dimensions

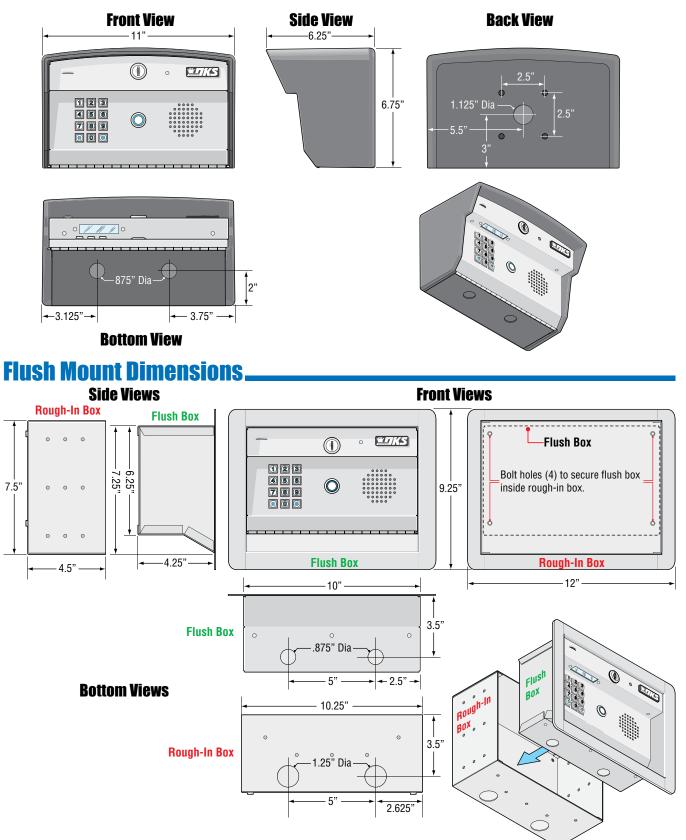


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Important Notices

FCC – United States

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules and Regulations. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Registration Number: DUF6VT-12874-0T-T

DOC - Canada

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the users satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable means of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

DOC Registration Number: 1736 4507 A

Notice:

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the sum of the load numbers of all the devices does not exceed 100.

Notice:

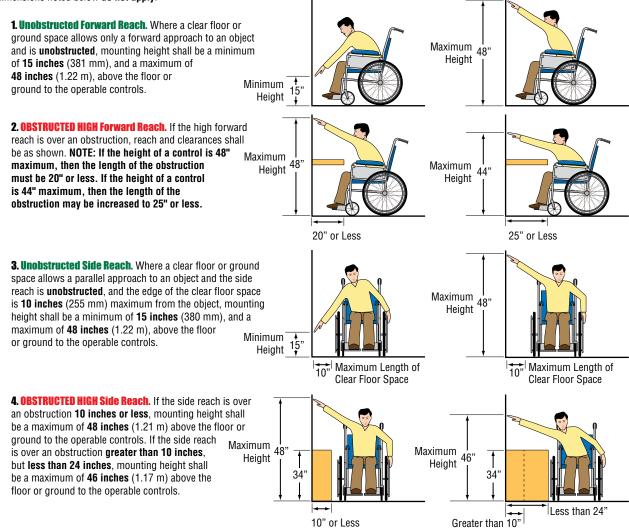
DoorKing does not provide a power transformer on units sold into Canada. Use only transformers that are CSA listed to power the telephone entry system. The model 2112 requires a 16.5-volt, 20 VA transformer.

UL 294 Performance Levels

| Destructive Attack: | Level I |
|------------------------------|----------|
| Line Security: | Level I |
| Endurance: | Level IV |
| Standby Power: | Level I |
| Single Point Locking Device: | Level I |

General Information

- Prior to beginning the installation of the telephone entry system, we suggest that you become familiar with the instructions, illustrations, and wiring
 guidelines in this manual. This will help insure that you installation is performed in an efficient and professional manner.
- The proper installation of the telephone entry panel is an extremely important and integral part of the overall access control system. Check all local building ordinances and building codes prior to installing this system. Be sure your installation is in compliance with local codes.
- When used to control a door or pedestrian gate, try to locate the telephone entry system as near as possible to the entry point. The unit should be
 mounted on a rigid wall to prevent excessive shock and vibration from closing doors or gates. Continuous vibration and shock from slamming doors
 or spring-loaded pedestrian gates will damage the circuit board. Under no circumstances should the unit be mounted directly to a moving door or gate.
- ADA mounting requirements for door control (Ref: ICC/ANSI A117.1-2009). The requirements below apply ONLY when the telephone entry system is being used to control entry through A PUBLIC DOOR ONLY. If this system is used to control entry through a vehicular gate or private entrance, the dimensions noted below do not apply.



- When used to control a vehicular gate with an automatic gate operator, the telephone entry system must be mounted a minimum of six (6) feet
 away from the gate and gate operator, or in such a way that a person cannot operate the entry system and/or touch the gate or gate operator at
 the same time.
- Be sure that the system is installed so that it is not directly in the traffic lane. Goose neck mounting post and kiosks work well for these type systems. When planning where to locate the system, take into consideration traffic lane layouts, turn around lanes for rejected access, conduit runs, power availability, etc.
- Environmental factors must also be taken into account. Surface mount units are designed for direct outdoor installations, however it is preferable to
 protect them from direct exposure to driven rain or snow whenever possible. Flush mount units must be protected from direct exposure to the
 elements.
- This telephone entry system contains a number of static sensitive components that can be damaged or destroyed by static discharges during
 installation or use. Discharge any static prior to removing the circuit board from the lobby panel by touching a proper ground device.
- Instruct the end user to read and follow these instructions. Instruct the end user to never let children play with or operate any access control
 device. This Owner's Manual is the property of the end user and must be left with them when installation is complete.

SECTION 1 - INSTALLATION

Prior to beginning the installation, we suggest that you become familiar with the instructions, illustrations, and wiring guide-lines in this manual. This will help insure that your installation is performed in an efficient and professional manner. Installation of the 2112 involves the installation of the hardware and the wiring of these components. Be sure that all dirt, metal or wood debris is removed from inside after mounting it. Any debris inside could damage the control board and cause the 2112 system to malfunction during operation.



When the 2112 is used to control a vehicular gate with an automatic gate operator, it must be mounted a minimum of six (6) feet away from the gate and gate operator, or in such a way that a person cannot operate the 2112 system and/or touch the gate or gate operator at the same time.

Included with the system is an extra random keyed cabinet lock. If desired, for added security against unauthorized entry into the system, the standard lock may be replaced with the random lock. Note: DoorKing cannot replace this specific lock or keys if lost.

1.1 Standard Internet Installation ONLY

A Cat5 wire will need to be run to the 2112 installation location that is **ALREADY** connected to the internet, then installation can begin.



1.2 Optional Cellular Installation ONLY

An existing cellular phone will be needed to test the signal strength of DoorKing's cellular network in the desired installation location (a smart phone is preferred).

BEFORE the 2112 cellular module can be installed, the installation location **MUST BE TESTED** for good cellular signal strength for reliable communication. **TEST** this location using an **existing active T-Mobile cellular phone ONLY**.

DO NOT install the cellular module in a WEAK or NO signal area.

Activate the phone near the position where you want the cellular module to be installed. 3-4 bars of signal strength should be indicated on the phone for a reliable signal. If 3-4 bars are not achievable in that specific location, then try moving the phone around and see if at least

3-4 bars can be achieved and maintained in a nearby location. If a smart phone is being used, try using the browser to connect to a website to verify good data transfer. Generally, the higher the cellular module is mounted, the better the reception. This also helps protect against vandalism. The cellular module should be located as close as possible to minimize the wire run. This allows less chance for lightning surges or other electrical interference to disrupt the cellular signal. Keep the cellular module away from any metal. This can also disrupt the signal. After the 3-4 bar signal strength has been confirmed (and the smart phone has good browser data transfer if used for signal testing), the installation can begin.

Surface Mount: Cellular module works inside plastic enclosure. The cellular module can be mounted outside the enclosure if desired because signal strength is a problem. Avoid any metal around module. DO NOT expose module to weather.

Flush Mount: Cellular module needs to be mounted outside metal enclosure in a protected secure area as high as possible for best reception. Avoid any metal around module. DO NOT expose module to weather. See pages 7 & 8. Cellular Module

11

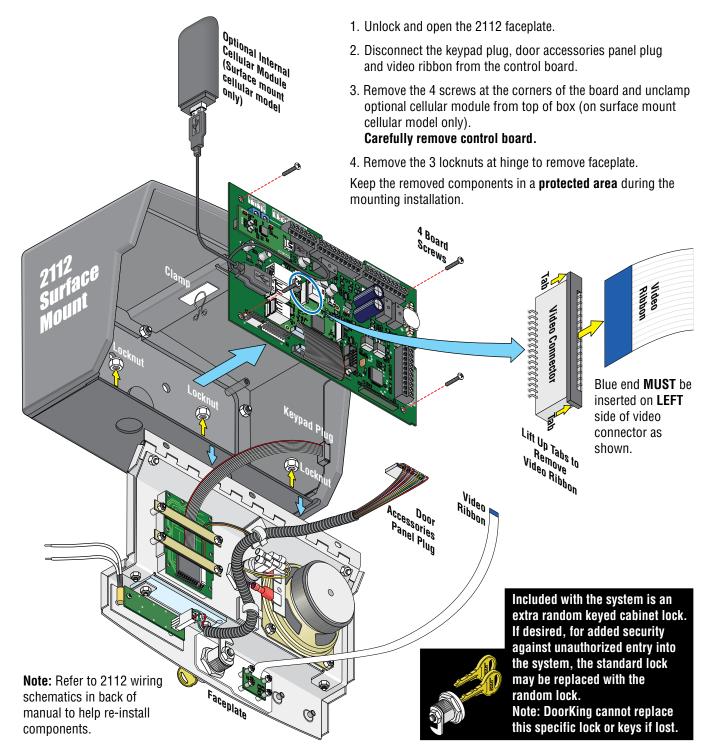
1.3 Mount the 2112

Use the specification dimensions page in front of manual and the next 2 pages to help with the installation of your chosen 2112 model.

Remove Control Board and Faceplate

The control board removal is the same for flush mount model.

CAUTION The control board contains static sensitive components. Discharge any static electricity from your hands by touching a proper ground device **before** removing the control board.



2112 Surface Mount Configurations

Surface mount model can be mounted directly to a wall. pilaster or post mounted using a DoorKing mounting post (there are several different styles available). Be sure it is securely mounted and is not subject to continuous vibration from closing doors or gates.

Mount on a Mounting Post

Use existing 4 holes in cabinet box to bolt the surface mount model on a DoorKing mounting post. Use the hardware that is supplied with the mounting post.

Note: A gooseneck mounting post anchored in concrete does **NOT** make a good around.

> Add washers on bottom to angle the unit upward (see Tip).

R.

IMPORTANT Choose how your 2112 will function (Internet or Cellular connection. see sections 1.1 and 1.2).

TIP: The mounting height of the 2112 will determine the field-of-view of the video lens. High profile vehicles may present a problem when viewing the person inside the vehicle if the video lens is mounted too low. the unit can be mounted at an upward angle to better view a person in a high profile vehicle. Keep this in mind when you are determining the mounting height of the unit.

Mount Directly to a Wall or Pilaster

Use the 4 existing holes in the cabinet box. Run conduit inside or outside of wall or pilaster if desired. Use appropriate hardware to mount the cabinet (Not supplied).

Be sure that the mounting hardware does not protrude into the cabinet where it could cause a short.

Conduit

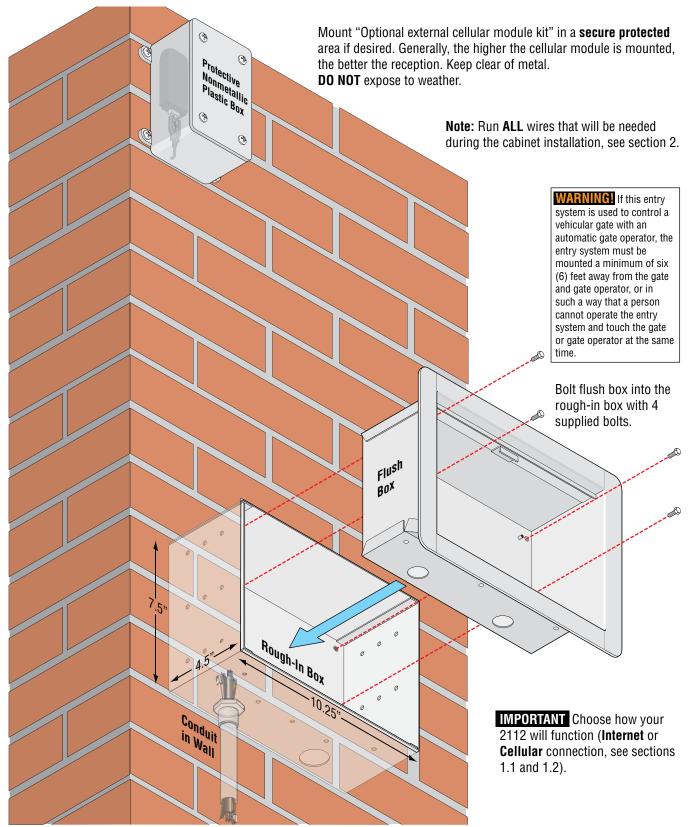
(Shown inside wall)

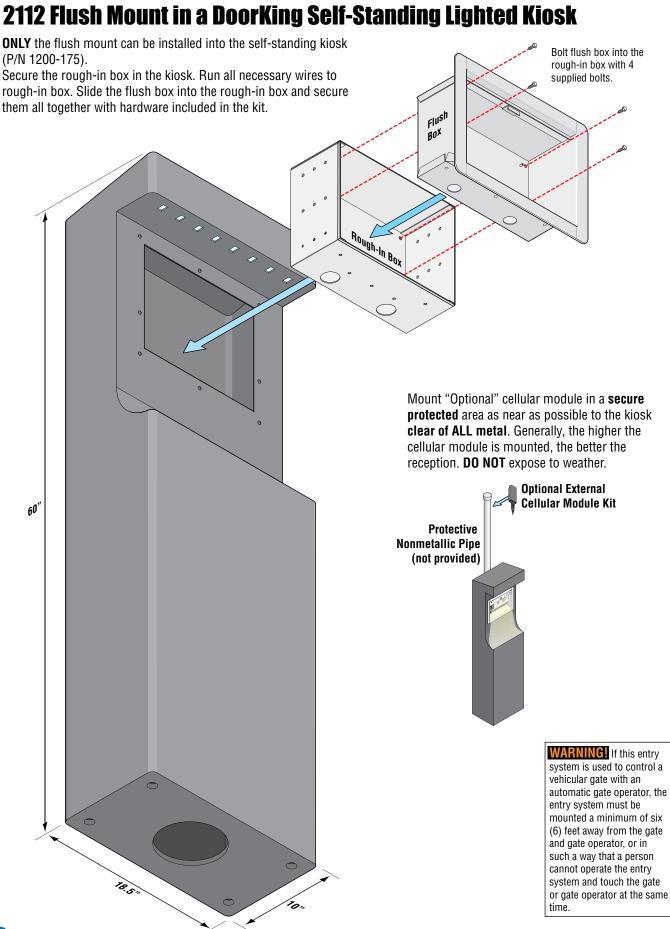
Plastic screw anchors for masonry if required. (Not supplied)

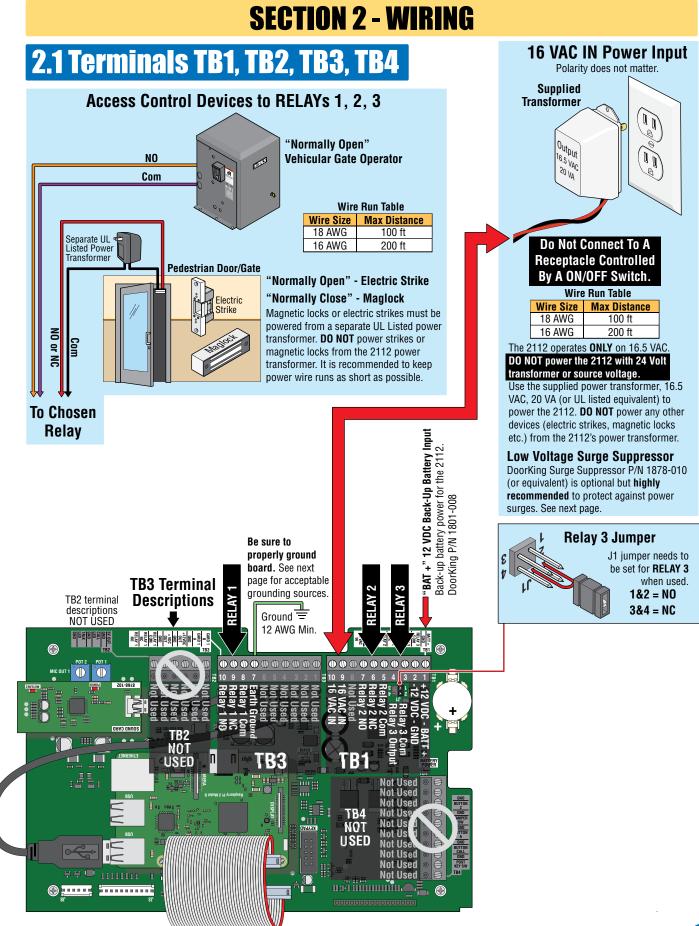
> WARNING! If this entry system is used to control a vehicular gate with an automatic gate operator, the entry system must be mounted a minimum of six (6) feet away from the gate and gate operator, or in such a way that a person cannot operate the entry system and touch the gate or gate operator at the same time.

2112 Flush Mount

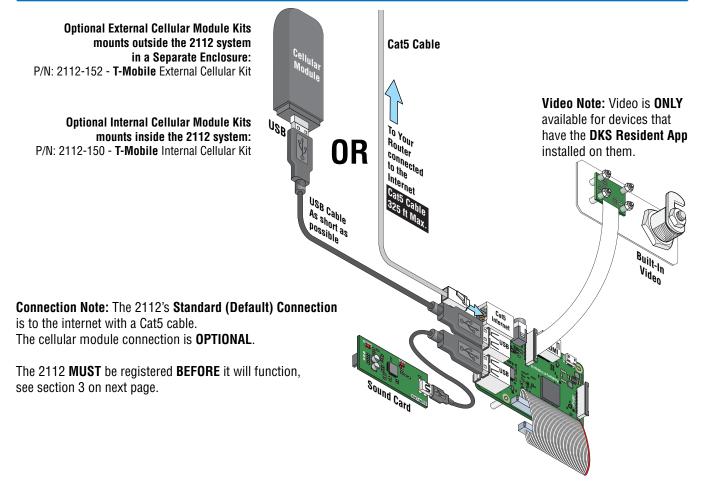
Flush mount unit is installed into a pilaster, wall or kiosk and can be mounted outside, exposed to the weather. It is preferred that they have limited direct exposure to the weather. We suggest that when they are mounted outdoors, it is in a covered protected area. Be sure the unit is mounted securely and is not subject to vibration from closing doors or gates. Run conduit inside wall into bottom of rough-in box if desired. Use appropriate hardware (Not supplied) to secure the rough-in box in place.





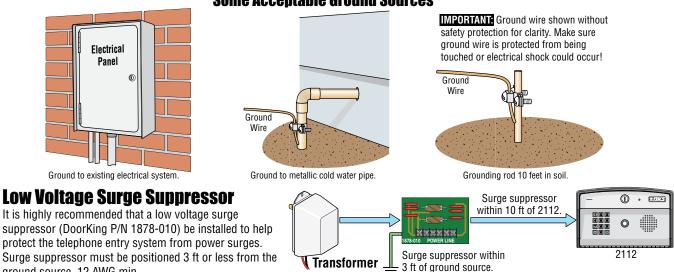


2.2 Internet-Standard OR Cellular-Optional Connection



2.3 Grounding and Surge Suppression

Proper Grounding and the use of surge suppressors can significantly reduce the chance of component failure because of static charges or surges. To be effective, ground connections should be made with a minimum 12 AWG wire to a ground point within 10 feet of the device being protected. The ground point can be at an electrical panel, a metallic cold water pipe that runs in the earth or a grounding rod driven at least 10 feet into the soil. A gooseneck mounting post anchored in concrete does NOT make a good ground.



Some Acceptable Ground Sources

ground source, 12 AWG min.

SECTION 3 - REGISTERING/PROGRAMMING/VOLUME ADJUST

After installation is **complete**, register your 2112 first, then program it and adjust volume if necessary.

3.1 Register 2112

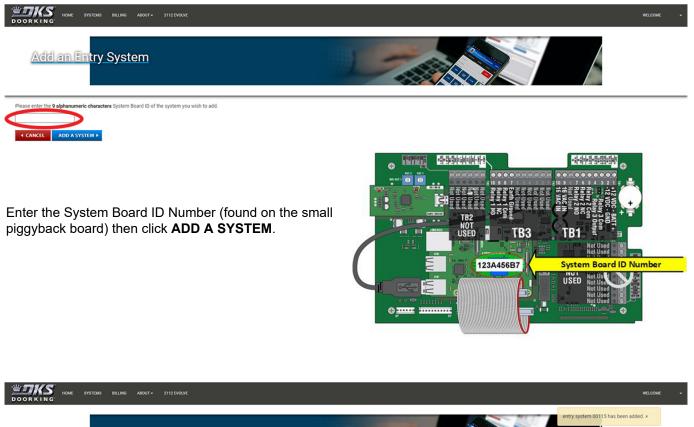
After the 2112 is connected to the internet (Cat5 connection or cellular module), Go to DoorKing's website: https://dks2112.com to Register and create a User Account for your 2112.

| | | LOG IN • |
|-------|---|---|
| DKS A | <u>\0002555</u> | |
| | to DKS DoorKing Access Control. or Register a new account. | If you have registered a new account and have not received a verification email, click here to re-send your verification email. |
| | Remember me (for 30 days) | |

A **verification** email will be sent to verify your registration. Once you have received the verification email, you can start setting up your 2112 system.

| | HOME SYSTEMS BILING ABOUT - 2112 EV | ouve. | | WELCOME . |
|---|---|----------------|-----------------------|---------------|
| | DKS Access | | | |
| | Welcome back You are logged in as 'user'. | | | |
| (| Avrilable Actions. Manage Systems | Manage Billing | View System Event Log | View User Log |

Click Manage Systems



| System II | 00115 | |
|--------------------------------|-------------------|--|
| Entry System Connectivity. | | |
| System ID: Connection: | 00115 Ethernet | |
| Activate Cellular Connection. | | |
| Next Step: Activate Outgoing P | Phone Calls. | |
| NEXT >>> | | |

Your 2112 will be displayed with an Ethernet connection. Click Next.

▶ Note: If cellular service was (is) purchased, this will be added after the system activation is complete.



Click **Next** for system setup.

| | ome systems b | ILLING AB | OUT - 2112 EVOLVE | | | WELCOME |
|----------------------|------------------|-----------|----------------------|-----------------------|---------------|--------------------------------|
| Entry/ | System (| 0115 | 2 | | | one Activation status is: OK × |
| 4 GO BACK | | | | System: | Yocto Firm 63 | |
| System Name: | Yocto Firm 63 | | Door Door Name(10 cl | hars max) Strike Time | | |
| Dir Code Length: | 3 | ~ | Door 1: Gate | 05 🗸 | | |
| Entry Code Length: | 4 | ~ | Door 2: Door | 05 🗸 | | |
| Device Time Zone: | Pacific (GMT -8) | ~ | Door 3: Pool | 05 🗸 | | |
| Use Daylight Savings | | | | | | |

Enter a system name. Set your directory code length, entry code length and your time zone. Name the individual entry points (Door) and set the relay strike time. Click **Submit**.

| Adding | Reside | nts : | | | | | | | | |
|---|----------------------------|--------------------|--------------------|---|------------------|-----------------|------------|----------------------|------------|--------------|
| DOORKING HOME SYSTE | | | | | | | | | | WELCOME . |
| Entry Syste | <u>ms</u> | | | | 2 | | | | | |
| GO BACK ADD A SYSTEM Show 10 entries | BILLING 🔫 YOU (| Own 1 Entry Syster | ns Without Billing | Info. Please Click Bil | lling to Enter Y | 'our Billing In | fo. | | Search: | |
| | Created | L† Service | | Residents | | - | | Hold Open 11 Remo | | .l↑ View .l↑ |
| Click Edit unde | | Firm 63 Cellula | r Edit | Edit | Phones | Door | Volume | Schedule Remo | ove Manage | Log |
| | MS BILLING ABOUT~ 2112.EVO | WE | | | | | | | | WELCOME . |
| Residents: | <u>System 00115</u> | | |)) | 2 | | | | | |
| GO BACK Add a Resident | | | , | Yocto Firm 63 | | | | | | |
| Show 10 v entries Resident Name | 🔠 Dir Code | J↑ Door | ↓† Phone | L1 Entry Code No data available in tab | | Action | L† Display | ↓↑ Edit | Search: | e 1 |
| showing 0 to 0 of 0 entries Click Add a Re | sident | | | | | | | | | |
| | | WE | | | | | | | | WELCOME |
| Add a resid | ent | | | 1 | 2 | | | | | |
| GO BACK Please enter the resident's name. Resident Name Barry Richardson ADD THES RESIDENT CANCE. | | | | | | | | | | |

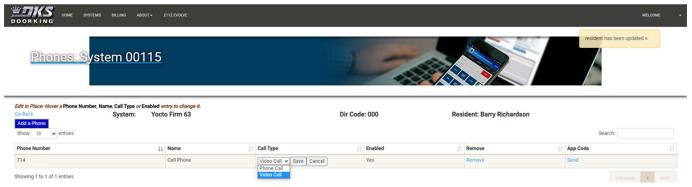
Add the residents name and click ADD THIS RESIDENT.

| | HOME SYSTEMS BILLING | ABOUT + 2112 EVOL | re | | | | WELCOME' + |
|--------------------|--|-------------------|----------------|-------------------------------------|---------|---------------|------------|
| Syste | em D <u>00115</u> | | | | | | |
| 4 GO BACK | | Resident: Ba | rry Richardson | | System: | Yocto Firm 63 | |
| Resident Name: | Barry Richardson | MANAGE PHONES | [714 875 5145] | | | | |
| Dir Code: | 000 | SCHEDULE DO | | SCHEDULE RESTRICTIONS | | | |
| Entry Code: | 1234 | | HO POINT AND A | | | | |
| Entry Code Action: | Admit 🗸 | Dial 9 to open: | | Entry Code Applies to: | | | |
| Display: | Image: A start of the start | | Gate | Enter # first before the entry code | | | |
| | | | Door | Gate | | | |
| | | | Pool | Door | | | |
| | | | | Pool | | | |
| SAVE | a | | | | | | |

Enter a resident name, directory code number, entry code number and select the entry code action (admit, hold open or close). Select which relay (Gate, Door or Pool in this example) you want to open when 9 is pressed on the resident telephone. Also select which relay (Gate, Door or Pool) you want to open when the entry code is entered on the keypad. Now click **ADD PHONE NUMBER**.



Enter the phone number and click **Add Phone**.



When you place your mouse pointer in the respective field (Phone Number, Name, Call Type, Enabled), be sure to click Save. The call type and enabled fields are a drop down menu to choose from.

Click Add a Phone if you want to add another phone number under this directory code (000 in the example).

- ► You can add up to four (4) phone numbers under each directory code.
- Each number can be set for either voice or video calling.

- ► Video call is only available for devices with the DKS 2112 Resident App installed.
- These numbers will be called in Broadcast Calling (all numbers called at the same time).

Settings

► The first number to answer the call will be connected, others will drop.

It Service

| BIIIING INTO: | | | | | | | | | | | |
|--|---------------------------------|---------------------|--------------------|----------------|------------------|--------|------|---|---------|---------|---|
| DOORKING HOME SYSTEMS BILLING ABOUT- | 2112 EVOLVE | | | | | | | | | WELCOME | - |
| Entry Systems | | | 1 | 2 | | | | / | | | |
| GO BACK ADD A SYSTEM > BILLING Show 10 • entries | 🛥 You Own 1 Entry Systems Witho | out Billing Info. P | lease Click Billir | ng to Enter Yo | ur Billing Info. | | | | Search: | | |
| | | | | | Door | Volume | Hold | | | | |

After you have registered the 2112 and added residents, the system is operational. Billing will begin after 30-days. If you have not entered your billing information, the 2112 service will be suspended until the billing information is entered.

Control

Control

Onen

3.2 Smart Phone App

It Created

20-09-10 05:40

The 2112 is programmed directly from your internet browser via a laptop, tablet or smartphone. **The DKS 2112 Resident App is required for video calling.**

Download the App for a Android phone at **Google Play Store**. Download the App for a iphone at **APP Store**.

Name

Yocto Firm 63

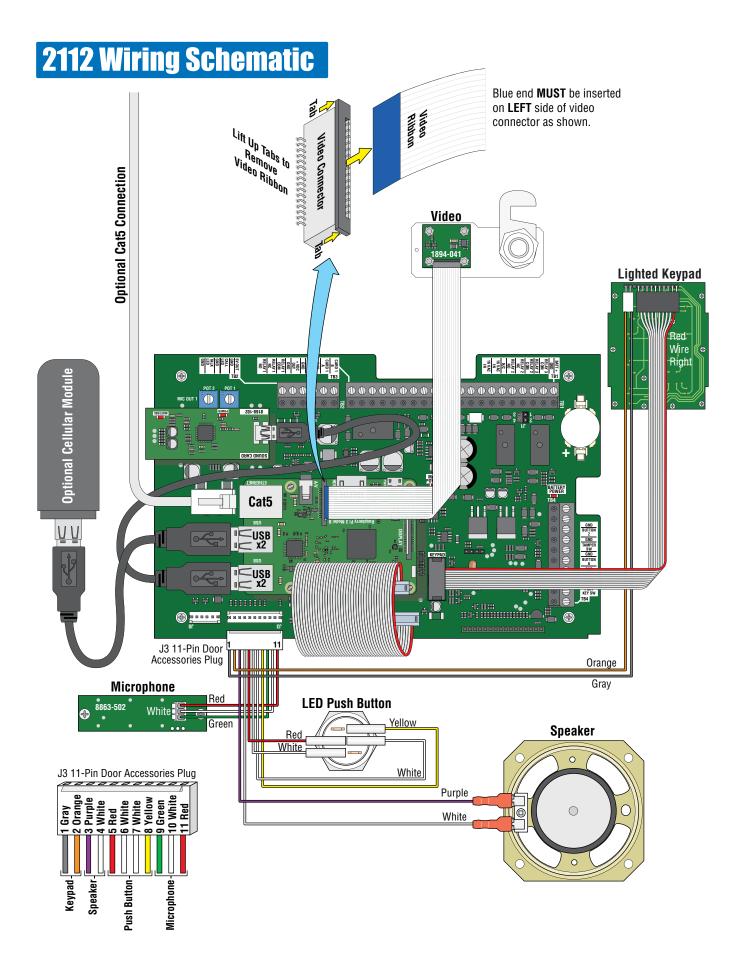


3.3 Volume Adjustment

Final adjustment after the 2112 has been Registered

Volume is adjusted online using the internet browser. Adjust as desired.

If the phone line is not active, something went wrong during the registration which must be corrected. If still having problems, call DoorKing tech support.



Installation/Owner's Manual

Model 2112

Internet/Cellular Programmable Video Telephone/Access Control System

Use this manual for circuit board 8863-010 Revision C or higher.

2112-065-K-3-22

Control a main door / gate and two other entry points



Download the smart phone App (DKS 2112 Resident App) at:





Android-version 8 or higher OR iphone 6-with IOS 9 or higher

Register and Program your Entry System at: https:/dks2112.com

www.doorking.com

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