2-Wire Digital Video System

Installation Manual

ATIGO

Introduction

The Atigo door entry system is a 2-Wire system that can be expanded up to 4 entrance panels and up to 32 internal monitors per system.

For programming camera module use built in set of DIP switches and touch keys.

The camera module has built in visual and audible status indictors as well as white LED for night view.

Installation Notes:

Wire up the system in accordance with the Wiring diagram supplied.

Make sure A2300 is installed next to the Power supply when installing multiple Entrances.

Set each Door Station ID as per instructions on **Page 3**

Set the address for each handset by following programming instructions supplied with the unit.

System Layout:

Maximum of 4 monitors can be connected to a single call button.

Maximum of 4 monitors can be connected in daisy chain configuration

Maximum of 4 monitors can be connected to a single A2200 in distributor mode (DIP switch 1 OFF)

Maximum of 4 A2200 units can be connected to single A2200 in raiser mode (DIP switch 1 ON)

Maximum of 32 monitors can be connected in any given system.

Video camera module A3101
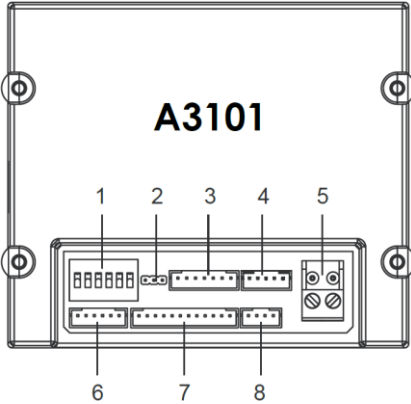
1. SET
DIP switches for system configuration.

2. JP-LK
Jumper for setting state of the **NO** contact

3. CN/KMB
Digital display module connection port

4. CN/T-COIL
Not in use

5. BUS
L1, L2 bus line connecting to terminal BUS(DS) on the power supply

6. CN-LK

|	
+12V	12VDC power output.
LK-	**P**ower ground.
LK+	Common contact of the relay.
NO	Normally open/closed contact (use JP-LK jumper to set)
EB+	Exit button connection port.
EB-	Exit button connection port.

7. CN/FUN
Not in use

8. CN/WGN
Not in use

DIP switch settings for A3101
The video module is configured by 6 DIP switches.

The DIP switches can be modified either before or after installation. Restarting the camera module is necessary whenever the DIP switches have been modified.
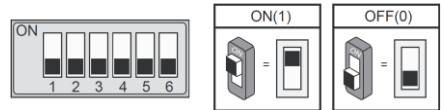
DIP switches 1 and 2 are for addressing door station(s).

When multiple door stations are installed on the system, these two DIP switches must be set correctly.

Door station DIP switch setting:
No.1 = **00** (Default setting)

No.2 = **10**

No.3 = **01**

No.4 = **11**

DIP switch 3 needs to be set to 0 for mechanical call button operation.
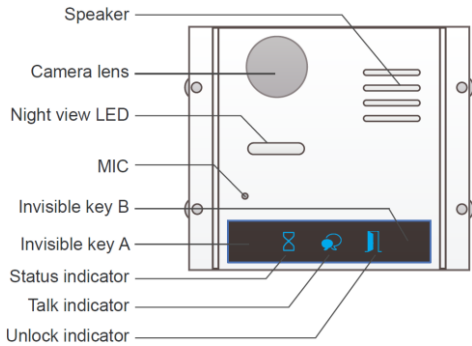
DIP switch 4 is for call button automatic allocation. Call buttons are automatically assigned to the indoor unit. The default setting for this DIP switch is 0.

DIP switch 5 is for setting door unlock time. 0 is the default setting for one second delay and 1 is the setting for five second delay.

DIP switch 6 is for activating keys A and B which are used for programming camera module functions.

The default setting for this DIP switch is 0.

Video module functions and programming

Speaker
Camera lens
Night view LED
MIC
Invisible key B
Invisible key A
Status indicator
Talk indicator
Unlock indicator

Restore factory settings.

With **Camera Module** in standby, short out the Exit Button Ports (EB+ and EB-) and toggle DIP switch 6 four times.

A long Beep will sound, and all three indicators will blink at the same time meaning the **Restore Factory Settings** is in progress.

Once the three Indicators turn off with a warning sound of a long Beep, it means the **Restore Factory Settings** is complete.

Activate Programming mode and touch keys, A and B

Key A and key B cannot be used on the camera module until activated.

To activate the keys and set the unit to programming mode, put DIP switch 6 to ON position.

DIP switch 6 must be set to ON.

Other DIP switches must be set to OFF.

When programming is finished, put DIP switch 6 back to OFF position.

Sound theme settings.

When the **Camera Module** is in programming mode:

1. Press and hold Key A for 3 seconds to enter the **Sound Theme Mode**.
2. The **Status indicator** will turn on and current theme sound, will play.
3. Press Key A again to play the next theme.
4. Press Key B to exit.

Sound volume settings.

When the **Camera Module** is in programming mode:

1. Press Key B to enter **Tune Volume Setting**, the **Talk indicator** will turn on and play the sound at the current volume.
2. Press Key A to increase/decrease the volume (loop setting)
3. Press Key B to exit.

Talk volume settings.

1. During the conversation, press and hold Key B for 3 seconds to enter the **Talk Volume Setting**.
   The **Talk indicator will** turn on with a long Beep followed by a short Beep.
2. Press Key A to increase/decrease the volume (loop setting).
3. Press Key B to exit.

Electric lock mode settings

Set the **Camera Module** in to Programming mode:

1. Press Key A, the **Unlock Indicator** will turn on with the warning sound of a long Beep followed by a short Beep!

2. Press Key A again to select lock mode:

a. Fail Locked Lock Mode = 0 (default)

Contact status: Normally Open

The **Status indicator** blinks once with the warning sound of a single long Beep.

b. Fail Unlocked Lock Mode = 1

Contact status: Normally Closed

The **Status indicator** blinks twice with the warning sound of a long Beep followed by a short Beep.

Lock time delay setting

When the **Camera Module** is in programming mode:

1. Press Key A. The **Unlock indicator** turns on with the warning sound of a long Beep followed by a short Beep.
2. Press Key B and hold for desired lock opening time.

The **Unlocking Time** delay is indicated by the number of times that the **Status indicator** blinks (set in seconds). For example: The **Status indicator** blinks four times, that means the unlocking time is 4 seconds.
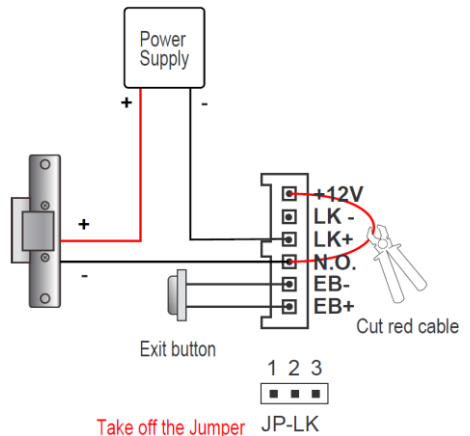

Electric lock with additional power supply.

1. Contact rating is limited to **24V DC and MAXIMUM CURRENT of 1000mA.**
2. The jumper **JP-LK** must be taken off before connecting.
3. Set electric lock mode using touch keys A and B

Fail Locked Lock Mode = 0 (default)
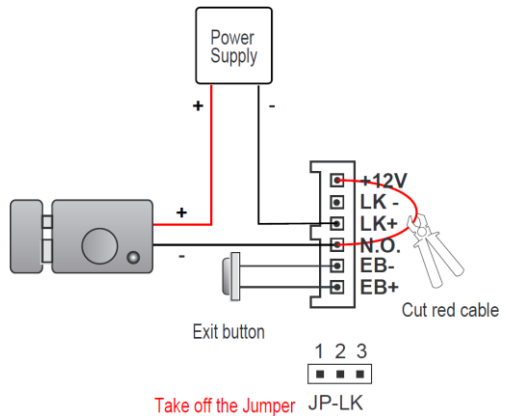
Fail Unlocked Lock Mode = 1

Electric lock powered by internal 12V DC output.

Internal output is limited to **12V DC and MAXIMUM CURRENT of 200 mA.**

Jumper setting **JP-LK:**

1-2   Normally Closed (Fail Unlocked)
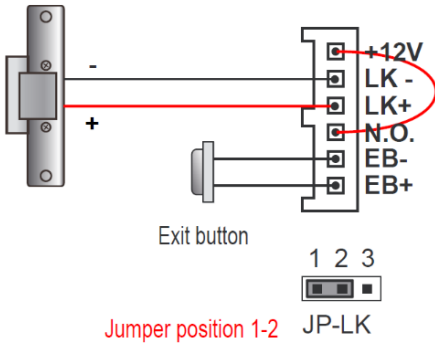
2-3   Normally Open (Fail Locked)

Triggering a Gate automation:

When triggering a gate, must use A2601 auxiliary relay.

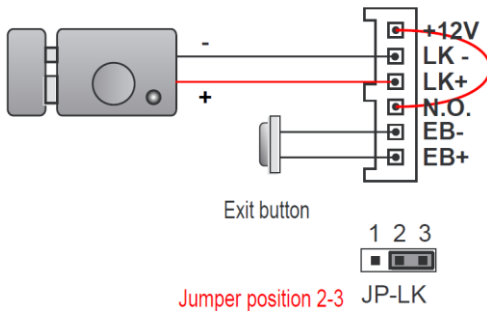*NOTE: Do not connect Gate contacts to Video module as this will cause permanent module damage.*
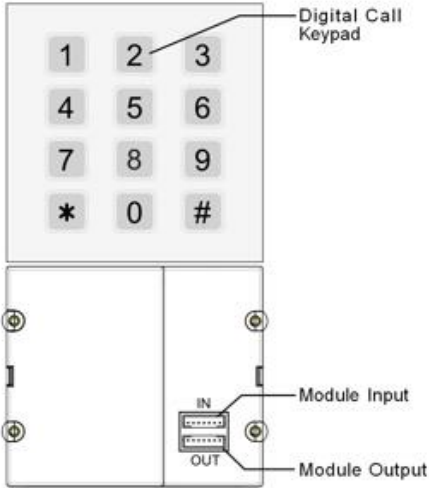
Normally Closed (Fail Unlocked)
12V DC **200mA MAX**

Normally Open (Fail Locked)
12V DC **200mA MAX**

Digital keypad module A3202

- Digital Call Keypad
- Module Input
- Module Output

Digital keypad module is designed as a digital call module and as a stand-alone access control keypad for a secure PIN entry with up to 40 pin codes capacity.

Use programming table for programming user pin codes and other functions and features.

Use **#** to confirm and ***** to cancel.

If no button is pressed for 10 seconds keypad will automatically exit programming mode

Example of adding new user code: 2525

Enter Master Code **#1234#**

Enter Location Code C: **20#**

Enter user PIN value V: **2525#**

Press ***** to finish and exit

Combination example:

 # 1234 # 20 # 2525 #

Press **# 2525 #** to test and release the lock

Programming Table

Function	Location Code C:	Option Value V:	Default Value
Reset all settings	00	1234	1234
Set master code	01	**1~12** digits	1234
Keys illumination time	02	**10~99** sec. / constantly lit **00**	10 sec.
Lock unlock time	03	**01~99** sec.	1 sec.
Lock operation mode	04	**0** : open **1** : closed	**0** : open
Keys tone settings	05	**0** : on **1** : off	**0** : on
Delete all user PIN codes	06	1234	1234
* and # key order	07	**0** : Normal **1** : Reverse	**0** : Normal
Call tone settings	08	**0** : on **1** : off	**0** : on
Speech volume settings	11	**1~9** low ~ high	5
Night light level	13	**0~5** low ~ high	4
Temporary user PIN Relay 1	18	**1~12** digits	—
Temporary user PIN Relay 2	19	**1~12** digits	—
User PIN Relay 1	20~59 max. 40 codes	**1~12** digits	—
User PIN Relay 2	60~99 max. 40 codes	**1~12** digits max. 40 codes	—

Digital display module A3203

Dot-matrix display

Card reader

Module Input

Module Output
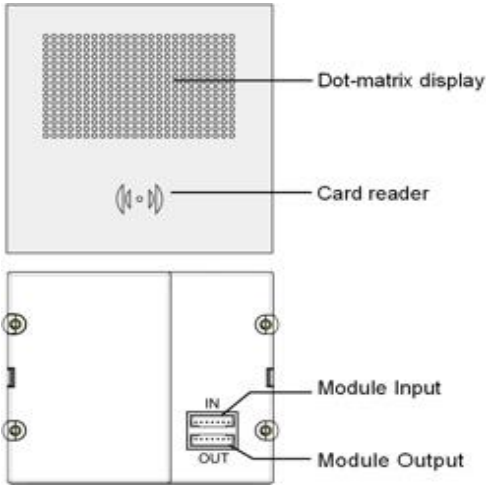
Digital display module is also design as a proximity card reader with up to 320 user tags capacity. Reader supports 125KHz and 13.56MHz unencrypted RFID tags

Use supplied master tags to add and delete user tags.

Programming Tags

Add user tags

1. In standby mode present MASTER CARD ADD tag to card reader
2. Use keypad to enter room number new user tag need to be associated with and press **#** to confirm.
3. Tap to add all user tags associated with selected room.
4. Repeat steps 2 and 3 to add more user tags
5. Present MASTER CARD ADD tag to finish.

Delete specific user tags

1. In standby mode present MASTER CARD DELETE tag to card reader.
2. Present user tag you wish to delete to card reader.
   Or use keypad to enter room number you wish to remove all user tags from and press **#** to confirm.
3. Repeat steps 2 to remove more user tags.
4. Present MASTER CARD DELETE tag to finish.

Delete all users and tags

1. In standby mode present MASTER CARD DELETE tag to card reader, wait for double beep.
2. Present MASTER CARD ADD tag to card reader, wait for double beep.
3. Once more present MASTER CARD ADD tag to card reader, wait for single beep.
4. Wait 10 seconds for reader to return to standby mode.

Program new MASTER CARD tags

1. Make sure all modules are connected and powered up.
2. Link together wires EB+ and EB - on audio/video module and wait for a beep
3. Switch ON and OFF DIP switch 4, four times, wait for double beep.
4. Present the first fob to the reader. This will be the ADD fob.
5. Present the second fob to the reader. This will be the DELETE fob.
6. Disconnect EB+ and EB-
   Unit will return to standby mode.

Backup and restore

Audio/Video module is design to store programmed information about user door numbers, proximity tags and pin codes.

All information stored by the module can be backed up and restored if necessary.

E.g.If keypad's Master PIN code is lost and entire panel need to be reset to default.

Backup procedure

1. Make sure all modules are connected and powered up.
2. Insert Micro SD card into the speech module.
3. Press and hold button A on the speech module for 10 seconds and release when you hear the beep, and all lights turn on.
4. Wait until you hear another beep, and all lights turn off.
5. Back is now complete.

Restore procedure

1. Make sure all modules are connected and powered up.
2. Insert Micro SD card into the speech module.
3. Press and hold button B on the speech module for 10 seconds and release when you hear the beep, and all lights turn on.
4. Wait until you hear another beep, and all lights turn off.
5. Restore is now complete

Restore to factory default

Caution!

When using this procedure all information will be lost and modules restored to default factory settings.

You can reset Master PIN code without losing all information by following backup and restore procedure.

Once back up procedure is complete make sure to remove file PASSWORD.BIN from Micro SD card as this file holds old mater code information.

Factory default procedure

1. Make sure all modules are connected and powered up.
2. Link together wires EB+ and EB – on audio/video module.
3. On Switch ON and OFF DIP switch 6 four times then disconnect wires EB+ and EB – .

    Speech module will beep, and all indicators will turn on. After about 15 seconds module will beep again, and all indicators will turn off.

4. All settings are now back to factory default.