

***User Manual

1 Abstract

Eco-Friendly BLDC Automatic door Controller, KI-BLUE

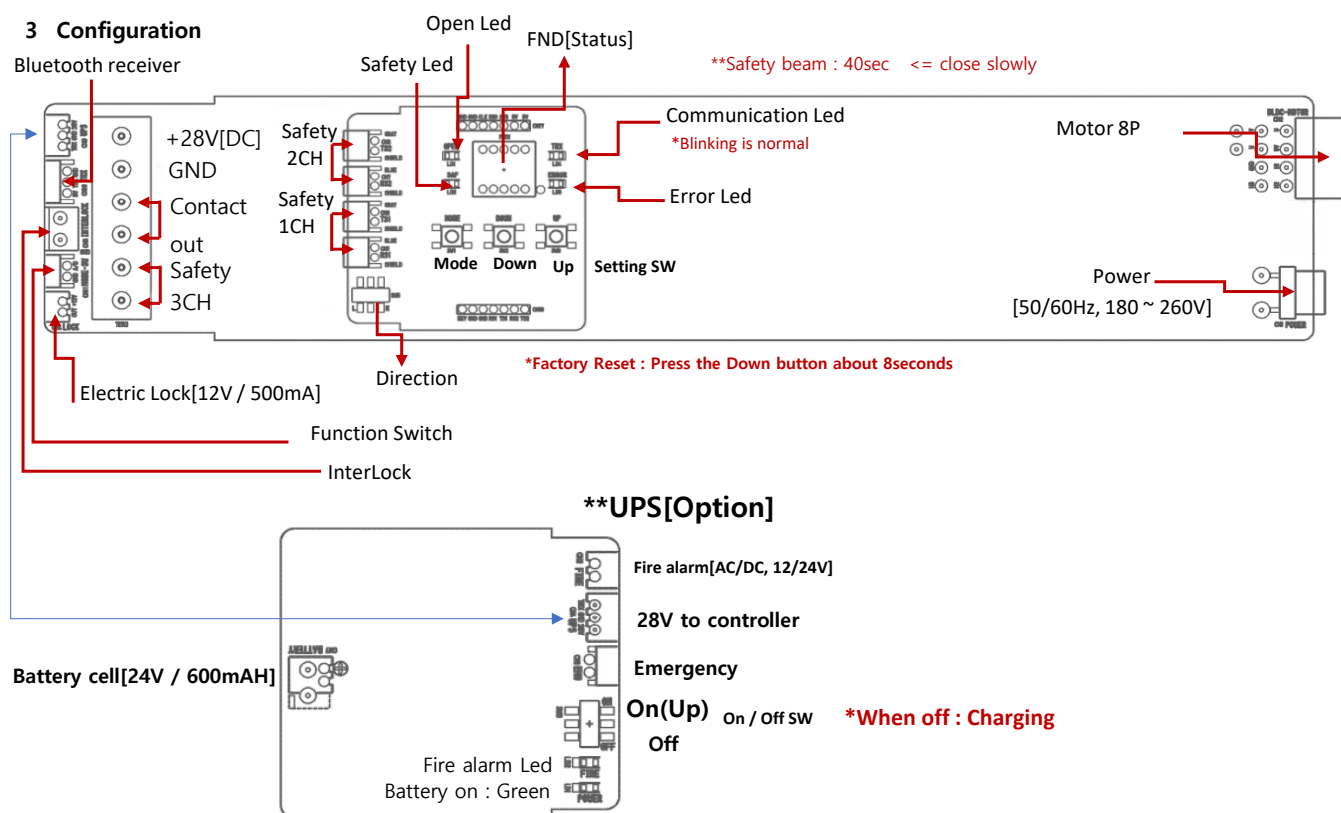
Outstanding user convenience sliding door operator **KI-BLUE**.

More powerful than DC motor, built-in Hall sensor, easy to speed control.

2 Specification

Model	KI-BLUE 60W		KI-BLUE 100W
Door width	-		-
Door weight	Single	100kg X 1ea	150kg X 1ea
	Double	80kg X 2ea	120kg X 2ea
Opening/Closing Speed	Max : 330mm/sec, Min : 50mm/sec		
Control	Microprocessor		
Safety	Safety Return(Adjustable) / Low speed at the return point		
	Side Photo Sensor 2beams		
Power train	Timing Belt(S8M)		
Motor	60W		100W
Operating noise(dB)	max.60dB *It may vary depending on the installation environment and measurement method		
Temp range	-25°C ~ +45°C		
Power	SMPS Built-in(50/60Hz, 180V~260V) / Max Peak 150W		
Power consumption	Less than 5A		
Setting	Controller / App(Android / iOS both)		
Bluetooth	Bluetooth App (Android O / iOS O) / Remote controller(10M) / Mode Switch		

3 Configuration



4 Motor

More powerful and less noise BLDC Motor / 3Types

1)H1 : Korea 60W(24V)	3,600rpm(No load)	Ratio 1 : 10	Weight : 2.1kg
2)d6 : Taiwan 60W(24V)	2,900rpm(No load)	Ratio 1 : 12	Weight : 2.2kg
3)d0 : Taiwan 100W(24V)	3,100rpm(No load)	Ratio 1 : 12	Weight : 2.5kg

5 Idle pulley

Durable acetal material for automatic door.

6 Timing Belt

Durable S8M In accordance with international requirement.

7 Aluminum Rail

Robust 4t aluminum even though the door is heavy.

8 BLDC Controller Setting(Menu)

Turn on the automatic door operator after installation based on above 3. configuration.

-. Manual Opening / Closing : "Up" button -> open / "Down" button -> close

Mode	FND	Menu	Value / Default		Description		
1) Factory mode	F1	Motor selection	H1, d6, d0 / d6		H1 : Korean brand motor		
					d6 : Taiwan brand motor		
					d0 : Taiwan brand motor		
	F2	Test Mode	n, r, t / n		n : Normal		
					r : Random Test / opening irregularly		
					t : Test mode / opening regularly		
*Turn on while pressing "Mode" button -> F1(Value adjust : "Down/Up" -> 1 more "Mode" -> F2 -> Press "Mode" button over 3Seconds							
2) General mode	n1	Opening Speed	1 ~ 7 / 5		Opening speed / "7" fast		
	n2	Closing Speed	1 ~ 7 / 3		Closing speed / "7" fast		
	n3	Opening Low Speed Range	1 ~ 7 / 3		Low speed period when opening / "7" long		
	n4	Closing Low Speed Range	1 ~ 7 / 4		Low speed period when closing / "7" long		
	n5	Closing Low Speed	1 ~ 7 / 2		Closing low speed in low period / "7" fast		
	n6	Hold-Open Time	0 ~ 20 / 2		Hold open time / Unit : sec		
	n7	Return Sensitivity	1 ~ 7 / 5		Sensitivity When collision / "7" high		
	n8	Stop Position	1 ~ 7 / 1		Stop distance from stopper / "7" long		
	n9	Fire Alarm	Cls,Opn / Open		When getting fire alarm signal		
	Na	Power Failure *1time => Low voltage	Down	Up	Down / Up : Operation menu setting		
			C(Close)	n	n :	No Action	*Low Voltage(22V) : C, O / O
				o	o :	Open	
O(Open)			c	c :	Close	*Power Failure : n, o, c ,1 / 1	
1	1 :	1time					
*Press "Mode" button over 3Seconds -> n1 -> 1more "Mode" n2 ~ -> Value adjust : "Down/Up" -> Press "Mode" button over 3Seconds							

3) FND and Trouble Shooting

FND	Comment	Action
E1	Incorrect motor selection	Factory mode -> F1 -> changing motor -> Restart
E3	Motor / Encoder error * Stop working	After clearing the problem and turn on
E9	Over 4times collision * Closing slowly & endlessly	Clear obstacles
X.X	Collision	Clear obstacles
Ed	Ready	
Hd	Hold Open	Release

Smart Phone App

*If you activate your bluetooth function on your smartphone, it will be more good. ***ONLY Andorid**, NOT iOS

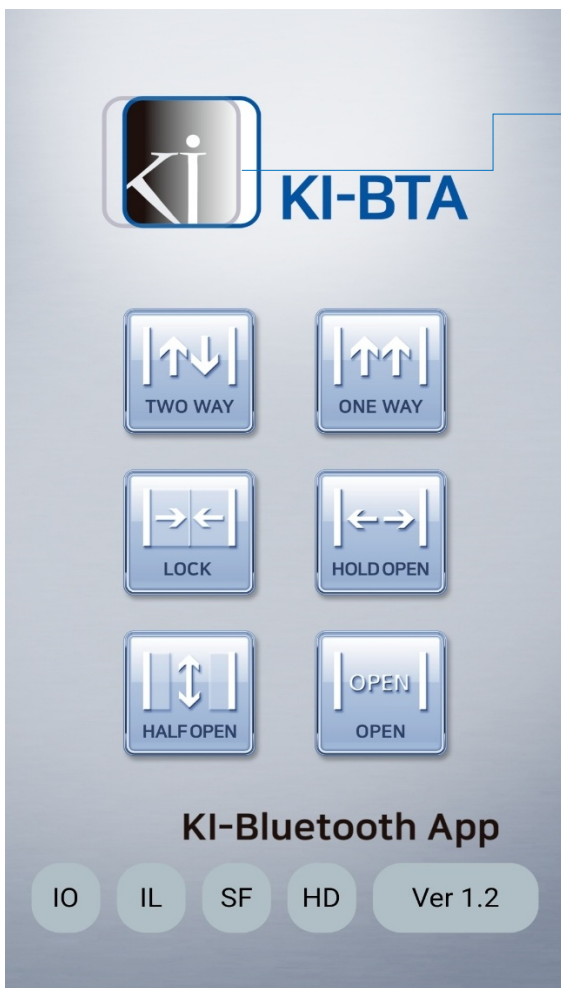
Plz download app from google playstore by searching "KI BTA"

After installation, you can see icon



Plz launch the KI-BTA App and see the below

[*Firmware will be updated without notice](#)



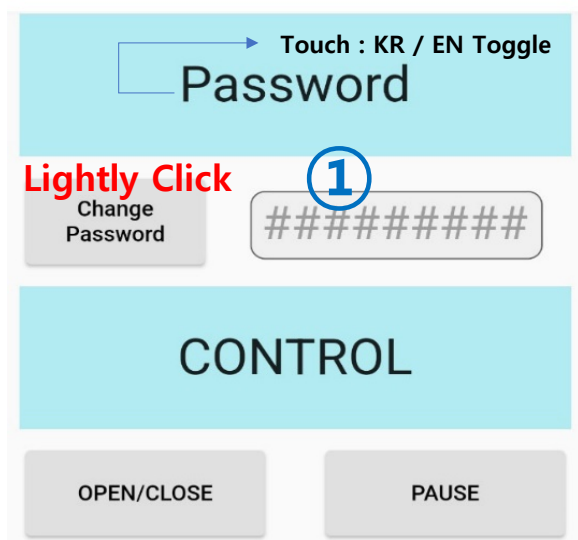
Press this logo for 2seconds and move setting mode

6 Icons

1. Two Way : Default, Open for outside and inside signal
2. One Way : Open for inside signal ONLY
*Outside touch sw should be set & registered
*if locked, power restart lock will be released
3. Lock : Door is Locked Release : Two Way Click
4. Hold Open : Hold open Release : Two Way Click
5. Half Open : Opening width => 50% / Release : Two Way
6. Open : Opening, Remote Controller

IO : Input Signal
SF : Safety Signal(1/2)

IL : InterLock
HD : Hold



*Use after pairing ****Sold seperately**

How to pair

(Password : 4Digits number)

1. First Use / Don't know the password
 - "Mode" Button Click on Receiver -> Green LED on
 - Input 4Digits into ① & click "Change Password" button
 - "Confirm" button click
2. Already registered the password <= Into other Phone
 - Input registered password into ① & "Change Password" click
 - "Register with the previous password" or "완료" keypad click

If the setting is done, try to click left "OPEN/CLOSE" button

Normal Mode

Menu button

OpenSpeed
N1

Slow

5

Fast

Default

CloseSpeed
N2

Slow

3

Fast

OpenLowSpeed
N3

Near

3

Far

ClosedLow
Section
N4

Near

4

Far

ClosedLow
Speed
N5

Slow

2

Fast

OpenWaiting
N6

2

Sec

Sensitivity
N7

Insensitive

5

Sensitive

OpenCap
N8

Near

1

Far

FireSet
N9

☐ Close

☒ Open

BatterySet
Na

☐ NotUsed

☒ Once

☐ Open

☐ Closed

☒ OpenEnd

☐ CloseEnd

Low voltage

OpenDirection

☒ Right

☐ Left

*Notice :

Set the value and press the "Menu button" till vibration
 <= 2seconds

OpenSpeed[1 ~ 7] : Adjust door's opening speed / "7" Fast

CloseSpeed[1 ~ 7] : Adjust door's closing speed / "7" Fast

OpenLowSpeed[1 ~ 7] : When opening, brake position backward
 * Near mean close to stopper(backward)

ClosedLowSection[1 ~ 7] : When closing, brake position forward
 * Near[1] means close to forward

ClosedLowSpeed[1 ~ 7] : Speed in "N4 Menu" / "7" Fast

OpenWaiting[0 ~ 20] : Hold Open time(Units : second)

Sensitivity[1 ~ 7] : Sensitivity when crashing / "7" Sensitive
 *Crashing position : Low Speed when closing

OpenGap[1 ~ 7] : Stop distance from stopper backward
 "7" Far

FireSet : When "Fire Alarm" Close / Open"

*High Priority

BatterySet : Response time 1sec / Power Failure

NotUsed => No Action

*When signal in, operation till low voltage

Once => Conduct 1time as Low voltage setting

Open => Open&Close / Signal in, Operation till Low voltage

Closed => Close / Signal in, Operation till Low voltage

*Low voltage[22V] : Final Action

OpenDirection : Door's opening direction[Right / Left]

Extended Mode

OpenPower
E1

Softly 60 Strongly

Acceleration
E2

Late 5 Quick

C Decelerate
E3

Near 3 Far

BootSet
E4

☒ Restart
☐ Action right away

Initialize
E5

☐ S ☒ M ☐ L

SwitchMode
E6

☒ Open Inside/Outside
☐ Open/Closed
☐ Toggle Mode

LockerSel
E7

☒ OP ☐ NO ☐ NC

KeepOpen
E8

☒ Not used ☐ Use

Motor Set
E9

☐ M1 ☐ M2 ☒ M3

Proximity
Blocking

☒ not used
☐ In Proximity BL
☐ Out Proximity BL
☐ All melee BL

Close Control

☒ fixed ☐ minimum

Press 2sec

RemoteControl
RegistrationMode

RemoteControl
Cancel

Model:
Version: 0.0

OpenPower[-16 ~ 60] : Lock Power

*Too low may cause reopen

Acceleration[1 ~ 7] : Door's acceleration / "7" Quick

Close Deceleration[1 ~ 7] : When Closing, Deceleration area

BootSet : When power restart, how to work

*Restart : Scan

Initialize : Factory Reset per motor

S : / M : / L :

SwitchMode *Outside should be set

-. Open Inside/Outside : both opening

-. Open / Closed : Inside open, Outside clse *toggle

-. Toggle : Open & Close when signal

LockerSel : Electric Lock

-. OP : No Use / NO : A Contact / NC : B Contact

KeepOpen : When opening, hold open function by hand

Motor Set : 3Types of motor

-. HS : Korean 60W / D6 : Taiwan 60W / D8 : Taiwan 80W

Proximity Blocking : Setting proximity function

-. Not used : No Use

-. In Proximity BL : Inside Proximity Blocking

-. All melee BL : Inside & Outside Proximity Blocking

<= Door Overlap Time, setting needed. Fixed Glass Side

*1st should be registered.

RemoteControl : When you register another transmitter

on the receiver. <= No need to press register button on receiver

SettingMode

SettingMode -> Same meaning of green led on receiver

*Can register without opening the engine cover