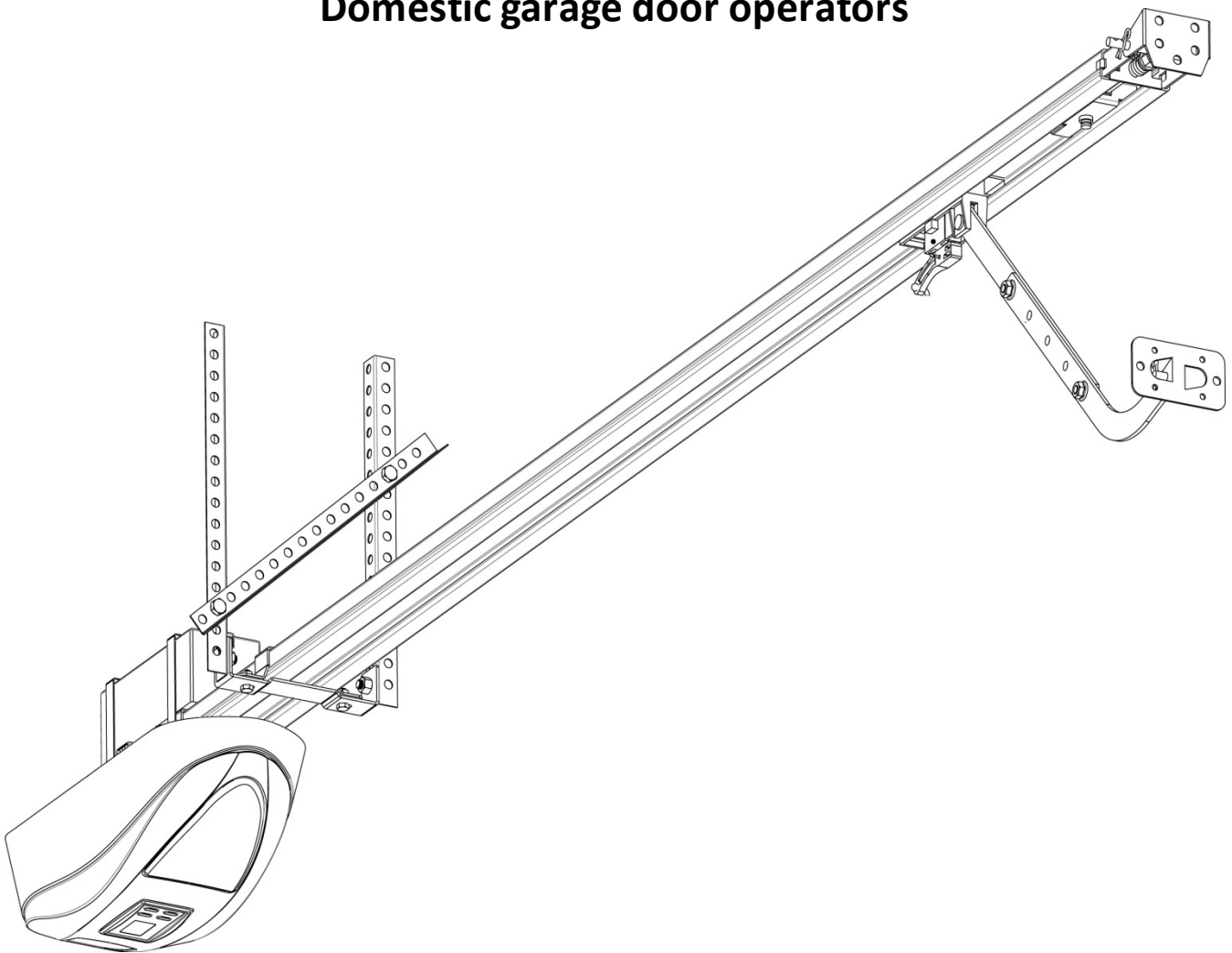




Domestic garage door operators



User Instructions

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The following instructions and information should have been demonstrated to you by your service provider/ installer at the handover of your new DC BLUE ADVANCED garage door automation system. For any clarity of any of these aspects, please contact your service provider or us directly via internet or telephone.

Please also keep in mind that by automating your garage door, you have created the largest electrical appliance in your home. It needs to be respected as a hazard if not used correctly.

Be Safe!

General safety obligations and warning to the installers and users of ET Systems automation equipment. This document along with all user instructions must be issued to the responsible end user during the handover and instruction meeting.

1. Only suitably qualified persons, may install, repair or service the product. Unless expressly indicated in the user instructions, no user serviceable components can be found inside any ET Systems automation product.
2. It is important for personal safety to study and follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
3. Keep the instructions in a safe place for future reference.
4. This product was designed and manufactured strictly for the use indicated in the accompanying documentation. Any other use not expressly indicated in the documentation may damage the product and/or be a source of danger. ET Systems cannot accept responsibility for improper use or incorrect installation of this product.
5. ET Systems cannot accept responsibility if the principles of good workmanship are disregarded by the installer.
6. ET Systems cannot accept responsibility regarding safety and correct operation of the automation, if other manufacturer's equipment is added to this product.
7. Do not make any modifications or alterations to this product.
8. Anything other than expressly provided for in the accompanying instructions is not permitted.

Prior To Installation:

1. All unnecessary ropes, chains and fasteners must be removed and all unnecessary latches or locks must be disabled from locking.
2. The gate or door must be balanced correctly where it, neither opens nor closes from any position under its own load. When operated by hand the gate or door should be free of hindrance and easily moved. In the case of a garage door if the balancing springs need to be adjusted the adjustment should only be carried out by a qualified and experienced person.
3. The construction of the gate or door must be sound and automatable. It is the responsibility of the installer to ensure that the mechanical components of the gate or door system are sufficient to withstand the necessary forces in cases of overload.
4. It is the responsibility of the installer to ensure the gate or door is sufficiently trapped within its range of travel by means of mechanical end of travel stoppers.
5. Ensure all fixed mounting points such as the wall above the door, in a garage door system, are sound and strong enough to allow proper fixing of the operator.
6. It is the responsibility of the installer, to ensure the installed position selected for this product falls within the limitations of the product's ingress protection rating. (IP rating)
7. Ensure the area of installation is not subject to explosive hazards. There should be no volatile gasses or fumes as these can present a serious safety hazard.
8. All ET Systems garage door operators are supplied with a sealed 15A safety plug on lead for use in an electrical code of practice approved plug point. Do not extend, modify or replace the plug lead unless duly qualified as an electrician. Before installing the unit, ensure the mains supply is switched off.
9. ET Systems gate operators are supplied with a terminal connection for the electrical supply beneath the screwed down cover of the operator. In the case of a model requiring 220Vac supply at the operator a null pole negatively biased switch, with a contact opening of greater than 3mm, must be installed within 1,5m of the operator. This switch must be clear of all workings of the system and must be in a position secure from public access. This switch and its connections must be inspected and passed by a certified electrician prior to using it.
10. It is the responsibility of the installer to ascertain that the designated persons (including children) intended to use the system, do not suffer reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the system by a person responsible for their safety.
11. The drive may not be installed on a door or gate incorporating a wicket door, unless the drive is disabled by the release of the wicket door. (Wicket door :- A pedestrian door within the main gate or door)

Installation:

1. Ensure the working area is clear of obstructions and obstacles.
2. Install the safety warning sticker within clear view of where the gate or door will be operated from. Typically this would be adjacent to any fixed trigger switches or on the gate or door itself.
3. The emergency release cord in a garage door automation system must be installed where it is no higher than 1.8m from the floor level.
4. Any additional fixed door control switches such as wall consoles or keypads, if installed, must be at a height of at least 1,5m, within clear sight of the gate or door and away from any moving components of the system.
5. Do not substitute any component of product with any other manufacturer's part. ET Systems accepts no responsibility for the safety and correct operation of the automation system in this circumstance.

6. It is highly recommended that a set of safety infra-red beams be used in conjunction with this product. The safety beams must be installed in such a way that the product is prevented from running when anything is in the path of the door or gate.
7. Over and above the recommendation to use safety infra-red beams with this product it is mandatory to install and use a safety beam set when using the automatic closing feature. It is recommended that a warning light be fitted to any automation system.

After Installation: It Is The Responsibility Of The Installer To Ensure The User:

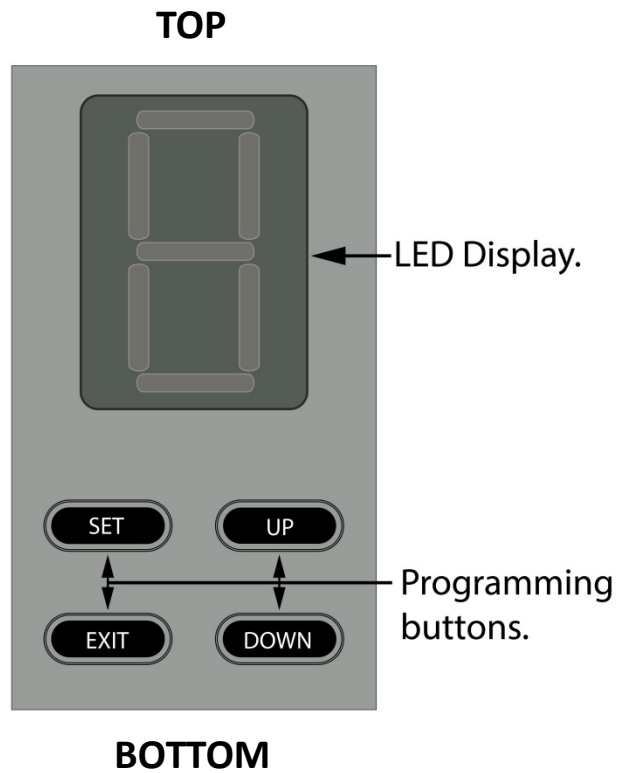
1. Is proficient in the use of the manual emergency release mechanism.
2. Is issued with the documentation accompanying this product.
3. Understands that the gate or door may not be operated out of clear sight.
4. Ensures that children are kept clear of the gate or door area at all times, and that children do not play with the remote transmitters or any fixed trigger switches linked to the system.
5. Is instructed not to attempt to repair or adjust the automation system and to be aware of the danger of continuing to use the automation system in an unsafe condition before a service provider attends to it.
6. Is proficient in testing the unit's safety obstruction sensing system.
7. Is aware of what to check for with regards to wear and tear that may need to be attended to from time to time by the service provider.
8. Is aware that a fatigued battery may not be disposed of in the general refuse and must be handed in at a battery merchant for safe disposal. Before removing the battery from the system the household mains must be disconnected. In the case of the motor unit being removed and scrapped, the battery must be removed first.

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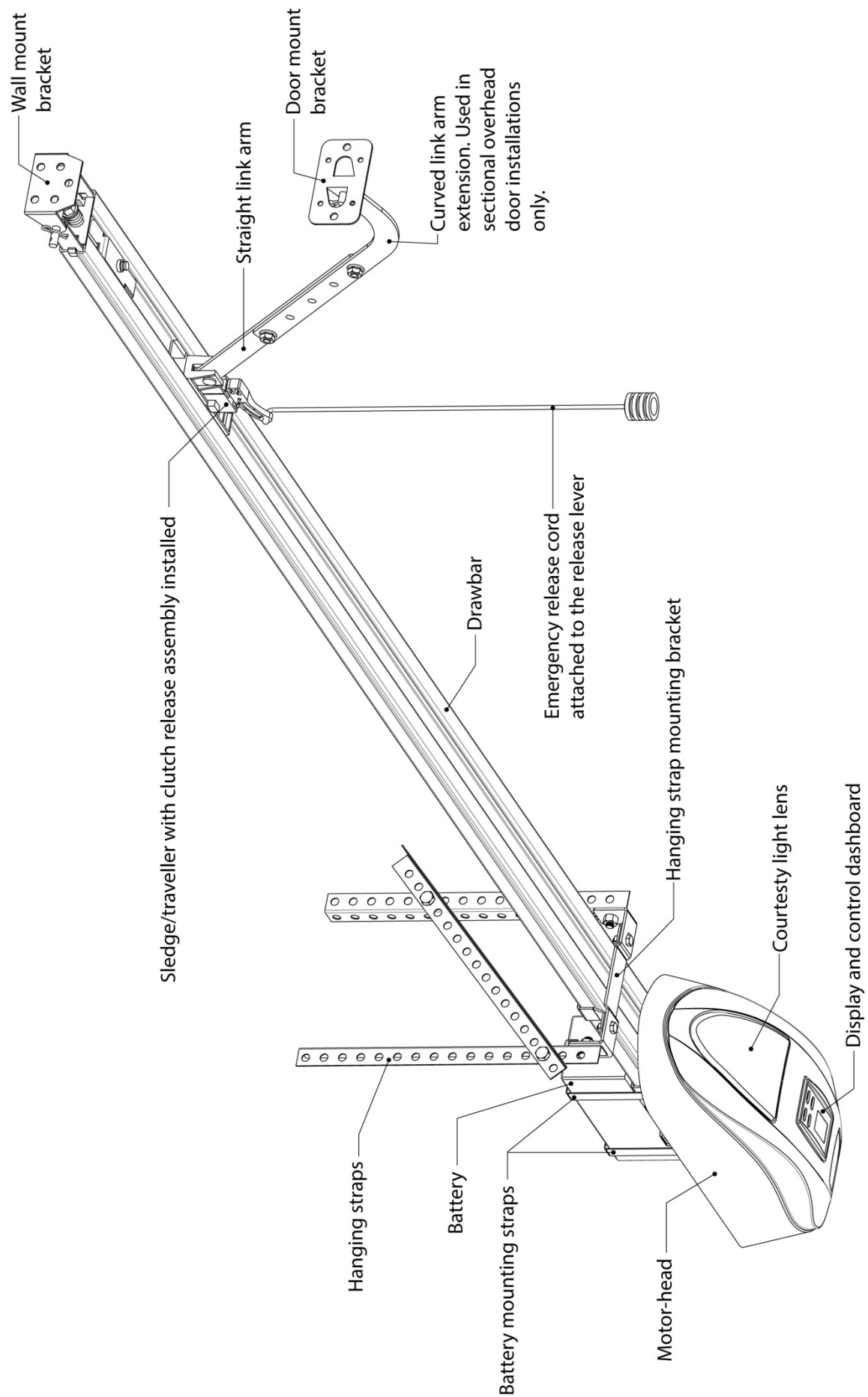
TECHNICAL SPECIFICATIONS		
Model	DC BLUE ADVANCED Pico	DC BLUE ADVANCED
Primary power supply	220 – 240Vac @ 50hz	220 – 240Vac @ 50hz
Peak power consumption	100W peak @ (220 -240vac)	120W peak @ (220 -240vac)
Motor voltage	24Vdc	24Vdc
Maximum operations per day*	50 full cycles per 24hrs @ a rate of Max. 5 per hour	50 full cycles per 24hrs @ a rate of Max. 5 per hour
Traveller speed*	8m/min	8m/min
Operating temperature range	-10 to 50° C (14F to 122F)	-10 to 50° C (14F to 122F)
Anti-crushing safety sensing	Yes - Electronic digital profiling	Yes - Electronic digital profiling
Auxiliary supply output	24Vdc @ 250mA peak or 150mA continuous	24Vdc @ 250mA peak or 150mA continuous
Rated battery charging voltage	27.5Vdc	27.5Vdc
Built in receiver format	ET BLU MIX © enhanced rolling code.	ET BLU MIX © enhanced rolling code.
Receiver frequency	433.92Mhz	433.92Mhz
Memory	EEPROM	EEPROM
Applicable door types	One piece trackless tip-up or multiple panel sectional overhead single width doors	One piece trackless tip-up or multiple panel sectional overhead double width doors
Drawbar options(Ex-stock)	2.2m or 3.2m	2.2m or 3.2m or 3.7m
Applicable door sizes *	<10m ²	<15m ²

* Based on the assumption that the door is balanced correctly and moving freely.

CONTROL PANEL DASHBOARD



COMPONENT IDENTIFICATION AND DESCRIPTIONS



USING THE EMERGENCY MANUAL RELEASE

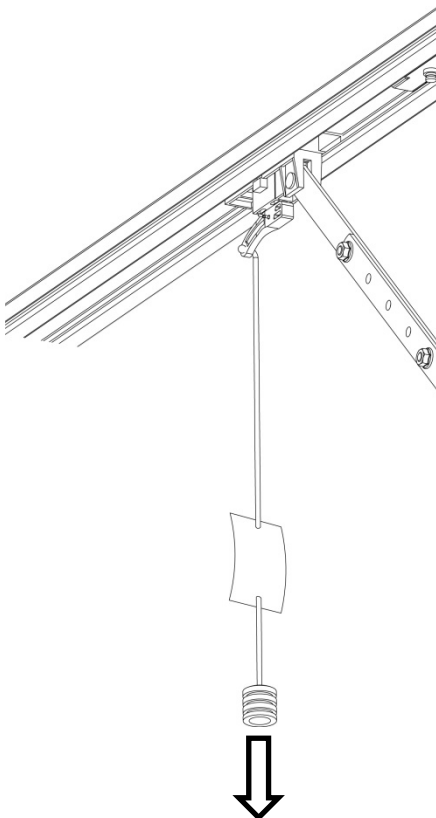
WARNING!

Take care when operating the manual release. In the case of a damaged, broken or fatigued balancing spring, the door can plummet downward when released from the drive via the emergency release cord!

TO DISENGAGE AND MOVE DOOR MANUALLY:

Warning! Door may plummet closed when released.

While pulling the emergency release cord downward, move the door open or closed by hand.



TO RE-ENGAGE AND LOCK DOOR BACK ONTO DRIVE:

Let the cord go and move door open or closed until the sledge/traveller locks back onto the chain drive.

SAFETY OBSTRUCTION SENSING IN ACTION

In the case of the door being resisted physically or obstructed while opening.

- The motor will stop running,
- The buzzer will beep once and operator reverts to standby mode.
- On the next BT button trigger the motor will start closing the door.

In the case of the door being resisted physically or obstructed while closing.

- The motor will stop running,
- The buzzer will beep once as the motor immediately begins opening the door once again.
- On reaching the open position the operator reverts to standby mode.
- On the next BT button trigger the motor will begin the door closing.

NB! The safety sensing overload system needs to be tested at least once a month: -

(As prescribed by the SANS 60335-2-95 safety code)

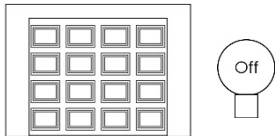

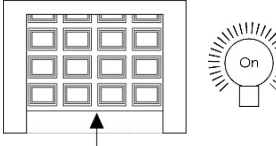
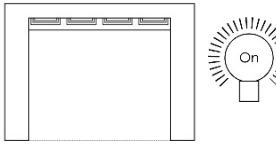

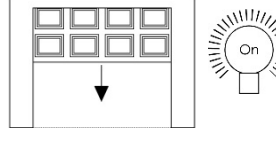
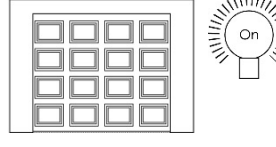
This is done by allowing the door to close on to a 40mm x 40mm x 70mm block. The door should stop and reverse away when encountering the block. If there are any signs of excessive stress to the mountings or mounting points on the door when doing this test, your service provider must be contacted to repair or reinforce these points.

If uncertain about this test please make an appointment with your garage door service provider for a proper demonstration.

BASIC OPERATING FEATURES

Basic open and close triggers using the (BT) button trigger.

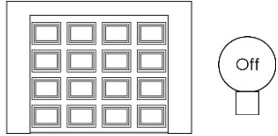

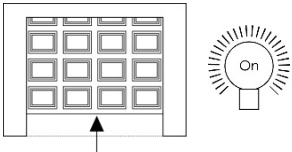

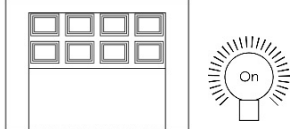

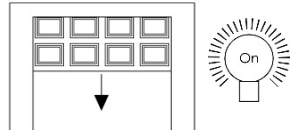

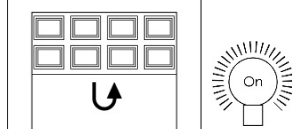
Example 1. Simply opening the door fully and closing the door again fully.

Action		Response	
		Door in the closed position. Courtesy light off.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins opening and courtesy light switches on.	
Wait for door to reach the full open position.		Door stops and waits in the open position. Courtesy light remains on for a further 3 minutes.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins closing and if the courtesy light had previously timed out and switched off, it will switch on again for three minutes.	
Wait for door to reach the closed position.		Door stops in the closed position. Light remains on until three minute timer has expired.	

BASIC OPERATING FEATURES

Basic open and close triggers using the (BT) button trigger.

Example 2. Using the (BT) button trigger input while the door is running.

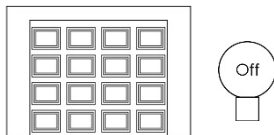

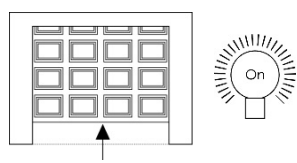
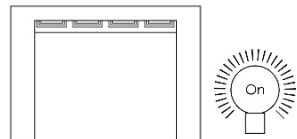


Action		Response	
		Door in the closed position. Courtesy light off.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins opening and courtesy light switches on.	
Press and release either the remote button trigger or the hardwired trigger, before the door reaches the full open position		Door stops and waits for next instruction. Courtesy light remains on for a further 3 minutes.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins closing and if the courtesy light had previously timed out and switched off, it will switch on again for three minutes.	
Press and release either the remote button trigger or the hardwired trigger, while the door is still closing.		Door stops and begins opening once again. Light remains on until three minute timer has expired.	



ADVANCED OPERATING FEATURES


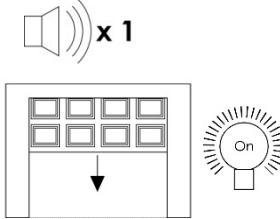
Advanced triggers using the remote (BT) button trigger

(PARTY MODE)

Example 3. Using the remote (BT) button trigger to disable any closing triggers

Action		Response	
TO ACTIVATE			
		Door in the closed position. Courtesy light off.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins opening and courtesy light switches on.	
Stop door while opening or simply wait until it reaches the open position.		Door stops and waits at the required open position. Courtesy light remains on for a further 3 minutes.	
Press and hold the remote button trigger, +/- 10 seconds, until buzzer beeps.		Buzzer beeps rapidly to indicate party mode is active.	

TO CONFIRM			
Any attempt to operate the door normally.		Buzzer repeats rapid beeps to indicate the party mode is still active. The door will not move.	

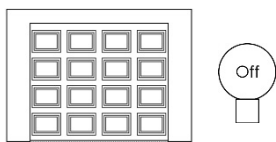




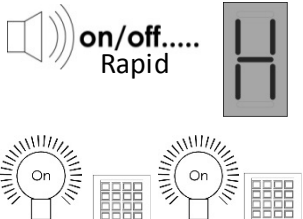

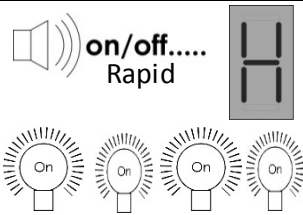




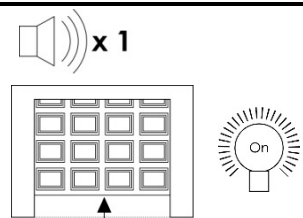
TO DE-ACTIVATE			
Press and hold the remote button trigger +/- 10 seconds, until buzzer beeps.		Buzzer beeps once and door starts closing. Courtesy light switches on for three minutes.	

ADVANCED OPERATING FEATURES

Advanced triggers via the remote (BT) button trigger and (LT) courtesy light trigger

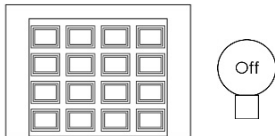

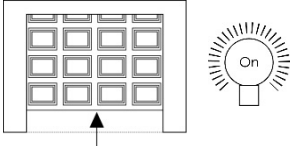
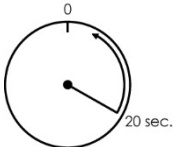
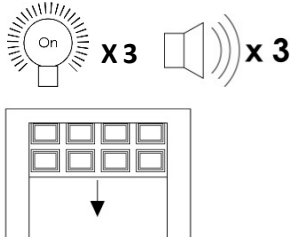
(HOLIDAY LOCK-OUT MODE)

Example 4. Using the remote (BT) button trigger and (LT) courtesy light to lock out any opening triggers

Action		Response	
TO ACTIVATE			
Door must be closed		Door in the closed position. Courtesy light off.	
Press and hold remote courtesy light button.		Courtesy light switches on.	
Release button when buzzer begins to sound. After +/- 5 seconds.		Buzzer tones for 5 seconds . Courtesy light remains on.	
Whilst buzzer is still sounding, Press and release the remote trigger button, to activate Holiday lock-out.		Buzzer beeps, light flashes rapidly and display shows “H” to indicate Holiday lock-out is active.	
TO CONFIRM			
Any attempt to operate the door normally.		Buzzer beeps, light flashes rapidly and display shows “H” to indicate Holiday lock-out is active.	
TO DE-ACTIVATE			
Press and hold remote courtesy light button.		Courtesy light switches on.	
Release button when buzzer begins to sound. After +/- 5 seconds.		Buzzer tones for 5 seconds . Courtesy light remains on.	
Whilst buzzer is still sounding, Press and release the remote trigger button, to de-activate Holiday lock-out.		Buzzer beep once, courtesy light remains on and the door begins opening as Holiday lock-out de-activates.	

ADVANCED OPERATING FEATURES

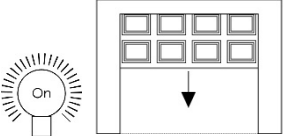
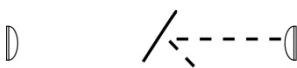
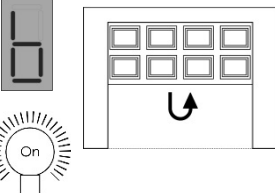
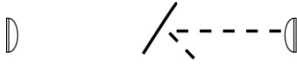
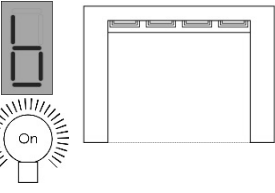

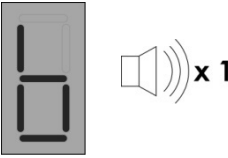
Auto-close feature.

Action		Response	
		Door in the closed position. Courtesy light off.	
Press and release either the remote button trigger or the hardwired trigger.		Door begins opening and courtesy light switches on.	
On reaching the full open position, the auto-close timer times out the previously programmed auto-close time. 20 sec. for example.		Courtesy light and buzzer, flashes and sounds three times, before door begins closing automatically.	

ADVANCED FEATURES

Safety beam input

NB!! This input only affects the closing cycle.





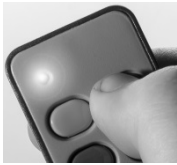

Action		Response	
		Door closing. Light on.	
Interrupt the safety beams.		Display shows "b", door stops and begins opening once again. Light remains on.	
Safety beam still interrupted.		Door reaches full open position. Display continues to show "b" as long as the safety beams are interrupted. Light switches off after 3min.	
Any further closing triggers while beams are still interrupted.		Door will not close. Display continues to show "b" as long as the safety beams are interrupted and buzzer beeps once.	

ADVANCED FEATURES

Courtesy light

NB!! In the case of a household mains failure, the courtesy light does not function.

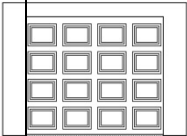


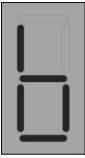


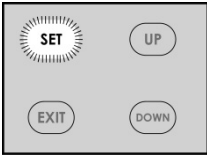








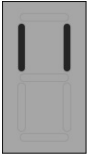
The buzzer will also emit a short beep every 15 seconds for 5 minutes after any BT transaction when the household mains power is off.

Action		Response	
Every operation of the door from any position.		Light will come on for 3 minutes and door operates.	 For 3 minutes
If the light is off and the (L) courtesy light button on the remote is pressed and released.		Light will come on for 60 minutes.	 For 60 minutes
If the light is on and the (L) courtesy light button on the remote is pressed and released.		The courtesy light simply switches off.	









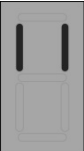

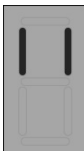


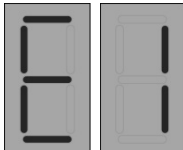

A QUICK METHOD OF LEARNING A TRANSMITTER BUTTON CODE INTO THE RECEIVER MEMORY WITHOUT ENTERING THE PROGRAMMING MENU.

Max users (BT) button trigger channel = 35 user codes

NB!! No remote codes can be learnt into the (LT) courtesy light channel this way.

Action		Response	
Door must be closed		Door closed	 
Press and hold the "Up" button until buzzer beeps and display shows "b".		Buzzer beeps once and display shows "b"	 
Press and hold required remote button.		LED on remote transmitter remains lit.	
Press and release the "SET" button.		<p>"1" on display and 1 beep = user code successfully registered.</p> <p>"2" on display and 2 beeps = user code already in the receiver memory.</p> <p>"3" on display and 3 beeps = Unsuccessful because no code was seen within 4 sec of the "SET" button being pressed. Mandatory timeout.</p> <p>"F" on display and multiple rapid beeps = Memory full</p>	<p>  Successful</p> <p>  Code already in memory</p> <p>  Unsuccessful</p> <p>  Memory full</p>
Release both the remote button and "SET" button			
		Display reverts back standby mode "11"	

WARNINGS WHEN USING A (BT) BUTTON TRIGGER FROM STANDBY MODE.

Display	Buzzer and light	Reason	Resolve by.
	 x 1	Safety beam obstructed.	Page 12
	 on/off..... Rapid    	Holiday lock-out active.	Page 11
	 on/off..... Rapid	Party mode active.	Page 10
	 x 1 short beep every 15 sec. (Beep stops 5 minutes after each door operation)  Light	Household mains power failure. Operating on battery power only.	Re-connect household mains supply. To test. Check that light switches on when operating door. Page 13
	Door stops  x 20 slow	<ul style="list-style-type: none"> Motor fuse blown or, Encoder faulty or disconnected. 	<ul style="list-style-type: none"> Replace motor fuse or, Call your service provider to reconnect or replace encoder Press and release "EXIT" when done.

WARRANTY:

1. All goods manufactured by ET NICE (Pty) Ltd carry a 12 month factory warranty from date of invoice.
2. All goods are warranted to be free of faulty components and manufacturing defects.
3. Faulty goods will be repaired or replaced at the sole discretion of ET NICE (Pty) Ltd free of charge within the warranty period.
4. This warranty is subject to the goods being returned to the premises of ET NICE (Pty) Ltd.
5. The carriage of goods is for the customer's account.
6. This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to.
7. All warranty claims must be accompanied by the original invoice.
8. All claims made by the end user must be directed to their respective service provider/installer.

The following conditions will disqualify this product from the warranty as laid out above. These conditions are non-negotiable.

1. Any unauthorized non-manufacturer modifications to the product or components thereof.
2. Any modification to the installation methods described in the installation instructions.
3. Any application or use of the product other than the intended use and application described in the product documentation.
4. Any application and or usage of this product outside of the technical specifications limits prescribed for it.
5. Any use of the product where the due diligence prescribed in the "Be Safe" document is not adhered to.

In particular for this product:

- The use of this product in heavy traffic applications such as office parks entrance/exits and residential complexes entrance/exits.
- The use of this product in non-weatherproof applications such as car ports.

The following items are not included in the warranty or they carry a special warranty condition of their own.

1. The battery (Limited 6 month warranty)
2. The motor brushes.
3. Damage resultant of wind and other climatic influences such as lightning strikes.
4. Damage due to high voltage surges on the household mains.
5. Damage due to infestation i.e. Ants nesting...
6. Water damage. It is the responsibility of the installer to ensure the product is installed in a location that is protected from water ingress. The ingress protection rating is specified in the accompanying documentation. Housings that require that cable entries are made by the installer do not carry an ex-factory ingress protection rating as it is the responsibility of the installer to seal the cable entry points after installation of the cabling.