

User's manual

SmartCam



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1 General instructions

- Please read the operating instructions carefully, before activating the lock.

1.1 Liability notes

- We don't assume liability for malfunctions due to incorrect operation, use of force or inappropriate handling. In cases of damage to property or valuables, which are due to incorrect locking of the safe, we also don't assume liability.
- If your safe, however, does not open correctly with the following instructions, please contact the manufacturer of the safe.

1.2 Operating notes

- If the lock is not opened or closed within 10 seconds after entering the code or entering the menu sequence, the electronics switch off. The old code remains active.
- Every correct input when opening/programming is confirmed by an acoustic signal and flashing of the red LED. These signals will not be considered in this instruction.
- Operation mode K1: All 9 users are assigned the PIN numbers 0-8.
- Never use force.
- Do not open the lock case, otherwise you compromise the function of the lock and warranty will be void.

1.3 Notes on safety

- For your security, change the factory codes immediately.
- For your new code, do not use any personal data like birthdays or any other data, which could be known by knowledge of your person.
- After entering the new code, the electronic lock should be opened and locked several times with the safe door opened.
- After each locking doublecheck if the safe is closed.

1.4 Factory mode

- Upon delivery the lock is factory setted on operation mode K1/number 10:
- The initial factory codes are:
 - Master factory code: 1-2-3-4-5-6 (valid for all operation modes)
 - Administrator factory code: 6-5-4-3-2-1 (valid for all operation mode K1)
 - Facility-master factory code: 6-5-4-3-2-1 (valid for all operation mode K3)
 - User factory code: 1-1-1-1/-1-1 (valid for all operation mode K2)

Operation mode	Number	User codes - number/digits	Master codes - number/digits	Administrator codes - number/digits	Facility-master codes - number/digits
K1	10	9/4-digit	1/6-digit	1/6-digit	
K1	11	9/6-digit	1/6-digit	1/6-digit	
K2	20	1/4-digit	1/6-digit		
K2	21	1/6-digit	1/6-digit		
K3	30	1/4-digit	1/6-digit		1/6-digit
K3	31	1/6-digit	1/6-digit		1/6-digit
K4	40	1/4-digit	1/6-digit		
K4	41	1/6-digit	1/6-digit		

2 Authorisations

Authorisations	Operation mode			
	K1	K2	K3	K4
Opening	User Master Administrator	User Master	User Master Facility-master	User Master
Locking user code	Keystroke	Keystroke	Changing code	Changing code
Locking administrator	Keystroke			
Locking master code	Keystroke	Keystroke		
Locking facility-master code			Keystroke	
Programming user code	Administrator			
Changing user code	User	User Master		
Changing administrator code	Administrator			
Changing master code	Master	Master	Master	Master
Changing facility-master code			Facility-master	
Deleting user code	Administrator		Master	Master
Adjusting time delay	Administrator			
Adjusting opening window	Administrator			
Bypassing time delay	Master			
Bolt position signalisation	User Master Administrator	User Master	User Master Facility-master	User Master
Testing the system	User Master Administrator	User Master	User Master Facility-master	User Master
Reset	Master	Master	Master	Master
Changing operation mode	Master	Master	Master	Master
Read out operation mode	Master	Master	Master	Master
Read out overview user	Administrator			
Application examples	File cabinets Medicines cabinets Daytime safes	Changing room lockers Deposits Roll container	Lockers Bag lockers Wardrobes	Lockers Bag lockers Wardrobes

3 Signalisation

Each key entry will be confirmed by a tone signal. This signal will not be considered in this instruction. This means that by entering the last digit three consecutively signals can be heard.

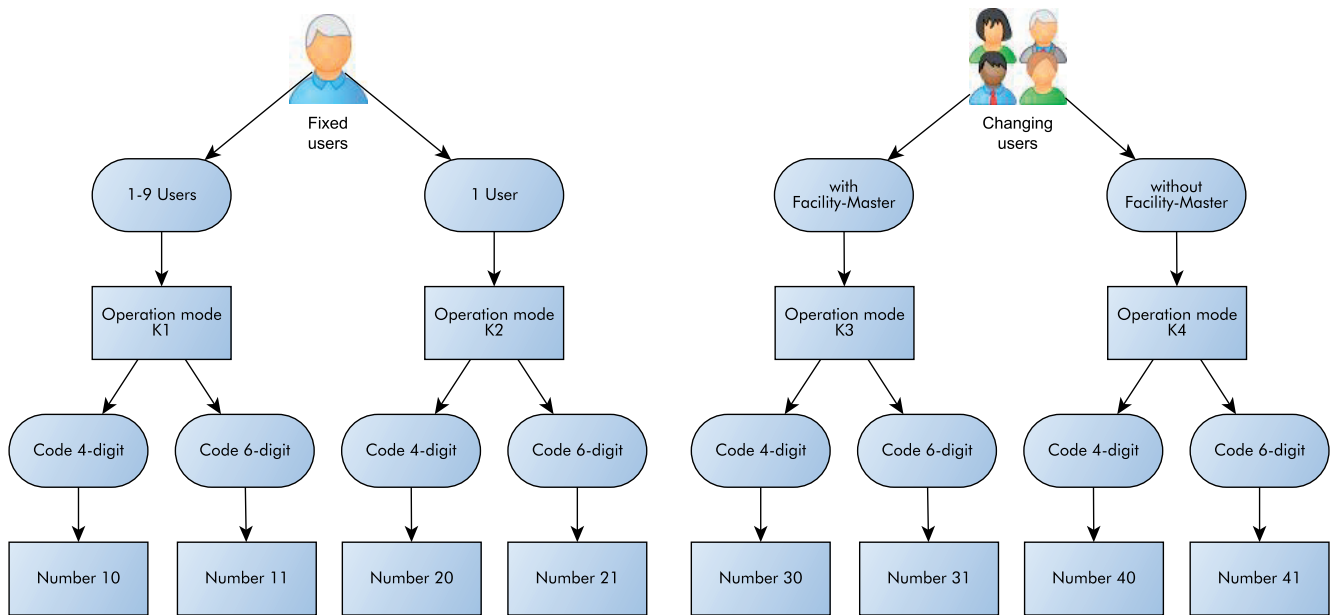
Explanation	LED red/tone signal	LED green
Keystroke	■	
Right code/correct input	■ ■	■ ■ ■
Code denied/wrong input	■ ■ ■	
Jump to menu	■ ■	■ ■ ■
Authentication successfully	■ ■	■ ■ ■
Authentication denied	■ ■ ■	
Menu successfully completed	■ ■	
Locking status locked		■
Locking status opened	■	
Blocking time	■ every 10s	
End of blocking time	■ ■	■ ■ ■
Battery warning	■ ■ ■ ■ ■ ■ ■ ■	
Time delay is active	■ every 10s	
Opening window is active	■ ■ every 10s	■ ■ ■

4 Changing operation mode/number

In case of changing the operation mode/number all user codes will be deleted.

Master code, administrator code and facility-master code remains valid.

Changing the operation mode/number is only possible when the lock is **opened**.



			✓	✗
1.	Press and hold the key "6" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	6	■■	—
2.	Enter your 6-digit master code e.g.	1 2 3 4 5 6	■■	—
3.	Enter the 2-digit number e.g.	1 1	■■	—
4.	Re-enter your 6-digit master code e.g	1 2 3 4 5 6	■■	—
5.	Re-enter the 2-digit number e.g.	1 1	■■	—
6.	The new operation mode/number is accepted.			


5 Operating/programming operation mode K1

5.1 Locking K1



			✓	✗
1.	Close the door at the safe and enter any key. Turn the knob within 3 seconds into locking position. The lock is closed.			

5.2 Opening K1

5.2.1 Opening with user code K1

			✓	✗
1.	Enter your 4-/6-digit code e.g. user code.		■ ■	—
2.	Turn the knob within 3 seconds into opening position. The lock is opened.			

5.2.2 Opening with master code/administrator code K1






			✓	✗
1.	Press and hold the key "8" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■ ■	—
2.	Enter your 6-digit master code e.g.		■ ■	—
3.	Turn the knob within 3 seconds into opening position. The lock is opened.			

- After a wrong code input a long signal tone occurs and the red LED flashes.
- After 4 consecutive wrong code inputs, a blocking time of 1 minute occurs. During this blocking time the red LED flashes every 10 seconds. It is not possible to insert a code during the blocking time is active. After the blocking time expires the red LED stops flashing. After the blocking time has passed 2 further incorrect inputs will restart the blocking time of 1 minute.

5.3 Programming a user code K1

The administrator is able to program a user code, but not vice versa.

All 9 users are assigned the PIN numbers 0-8.

			✓	✗
1.	Press and hold the key "1" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■ ■	—
2.	Enter your 6-digit administrator code e.g.		■ ■	—
3.	Enter the user PIN e.g. user 1.		■ ■	—
4.	Enter your 4-/6-digit user code e.g.		■ ■	—
5.	Re-enter your 4-/6-digit user code e.g.		■ ■	—
6.	The user code is accepted.			

5.4 Changing a user code K1

			✓	✗
1.	Press and hold the key "0" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	0	■■	—
2.	Enter your old 4-/6-digit user code e.g.	1 3 1 3 / 1 3	■■	—
3.	Enter your new 4-/6-digit user code e.g.	3 3 3 3 / 3 3	■■	—
4.	R-enter your new 4-/6-digit user code e.g.	3 3 3 3 / 3 3	■■	—
5.	The new user code is accepted.			

5.5 Deleting a user code K1

Deleting a user code is only possible when the lock is **closed**.

			✓	✗
1.	Press and hold the key "3" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	3	■■	—
2.	Enter your 6-digit administrator code e.g.	6 5 4 3 2 1	■■	—
3.	Enter the user PIN of the user who has to be deleted e.g. user 3.	3	■■	—
4.	The user code is deleted.			

5.6 Changing the master code/administrator code K1

Changing the master code/administrator code is only possible when the lock is **opened**.

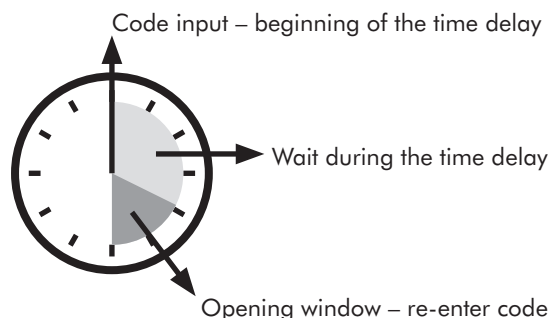
			✓	✗
1.	Press and hold the key "2" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	2	■■	—
2.	Enter your 6-digit code e.g. administrator code.	6 5 4 3 2 1	■■	—
3.	Enter your new 6-digit code e.g.	8 8 8 8 8 8	■■	—
4.	Re-enter your new 6-digit code e.g.	8 8 8 8 8 8	■■	—
5.	The new code is accepted.			

5.7 Time delay and opening window K1

Only the administrator can program or delete the time delay. Only the master can open the lock when a time delay is programmed.

Time delay: 00 - 99 minutes - time to wait until the lock can be opened.

Opening window: 01 - 15 minutes - within this time window the master or the user can open the lock with his code.



5.7.1 Adjusting the time delay and opening window K1

Adjusting the time delay and opening window is only possible when the lock is **opened**.

			✓	✗
1.	Press and hold the key "9" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	9	■ ■	■ ■
2.	Enter your 6-digit administrator code e.g.	6 5 4 3 2 1	■ ■	■ ■
3.	Enter the time delay e.g. 20 minutes.	2 0	■ ■	■ ■
4.	Enter the opening window e.g. 10 minutes.	1 0	■ ■	■ ■
5.	Re-enter the time delay e.g. 20 minutes.	2 0	■ ■	■ ■
6.	Re-enter the opening window e.g. 10 minutes.	1 0	■ ■	■ ■

5.7.2 Opening with activated time delay and opening window K1

			✓	✗
1.	Enter your 4-/6-digit user code e.g.	3 3 3 3 / 3 3	■ ■	■ ■
2.	Wait until the end of the time delay.		■ every 10s	
3.	Opening window starts.		■ ■ every 10s	
4.	Re-enter your 4-/6-digit user code within the opening window e.g.	3 3 3 3 / 3 3	■ ■	■ ■
5.	Turn the knob within 3 seconds into opening position. The lock is opened.			

5.7.3 Deleting the time delay K1

The time delay can only be deleted within the opening window.

			✓	✗
1.	Enter your 4-/6-digit user code e.g.	<input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="3"/> / <input type="text" value="3"/> <input type="text" value="3"/>	■ ■	■ ■ ■ ■
2.	Wait until the end of the time delay.		■ every 10s	
3.	Opening window starts.		■ ■ every 10s	
4.	Enter your 4-/6-digit user code e.g.	<input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="3"/> <input type="text" value="3"/> / <input type="text" value="3"/> <input type="text" value="3"/>	■ ■	■ ■ ■ ■
5.	Turn the knob within 3 seconds into opening position. The lock is opened.			
6.	Press and hold the key "9" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	<input type="text" value="9"/>	■ ■	■ ■ ■ ■
7.	Enter your 6-digit administrator code e.g.	<input type="text" value="6"/> <input type="text" value="5"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="1"/>	■ ■	■ ■ ■ ■ ■ ■
8.	Delete the time delay .	<input type="text" value="0"/> <input type="text" value="0"/>	■ ■	■ ■ ■ ■
9.	Delete the opening window .	<input type="text" value="0"/> <input type="text" value="1"/>	■ ■	■ ■ ■ ■
10.	Delete the time delay again.	<input type="text" value="0"/> <input type="text" value="0"/>	■ ■	■ ■ ■ ■
11.	Delete the opening window again.	<input type="text" value="0"/> <input type="text" value="1"/>	■ ■	■ ■ ■ ■

5.8 Overview of users K1

This function provides an overview of the number of free or already occupied users (key 9 is not assigned).
Only the administrator can perform this function.

			✓	✗
1.	Press and hold the key "7" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	<input type="text" value="7"/>	■ ■	■ ■ ■ ■
2.	Enter your 6-digit administrator code e.g.	<input type="text" value="6"/> <input type="text" value="5"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="1"/>	■ ■	■ ■ ■ ■ ■ ■
3.	Enter the user PIN that has to be checked e.g. users 3, 5, 6...	<input type="text" value="3"/> , <input type="text" value="5"/> , <input type="text" value="6"/> ...	free ■ ■ ■ ■	occupied ■ ■ ■ ■

6 Operating/programming operation mode K2

6.1 Locking K2

			✓	✗
1.	Close the door at the safe and enter any key. Turn the knob within 3 seconds into locking position. The lock is closed.			

6.2 Opening

6.2.1 Opening with user code

			✓	✗
1.	Enter your 4-/6-digit code e.g. user code.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> / <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div>	■ ■	■ ■
2.	Turn the knob within 3 seconds into opening position. The lock is opened.			

6.2.2 Opening with master code K2

			✓	✗
1.	Press and hold the key "8" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">8</div>	■ ■	■ ■
2.	Enter your 6-digit master code e.g.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">5</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">6</div>	■ ■	■ ■
3.	Turn the knob within 3 seconds into opening position. The lock is opened.			





- After a wrong code input a long signal tone occurs and the red LED flashes.
- After 4 consecutive wrong code inputs, a blocking time of 1 minute occurs. During this blocking time the red LED flashes every 10 seconds. It is not possible to insert a code during the blocking time is active. After the blocking time expires the red LED stops flashing. After the blocking time has passed 2 further incorrect inputs will restart the blocking time of 1 minute.

6.2.3 Changing the user code K2

			✓	✗
1.	Press and hold the key "0" for eg. 3 seconds. When releasing the key the green LED flashes permanently.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">0</div>	■ ■	■ ■
2.	Enter the following digit for the type of change.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">0</div> by the master or <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> by the user	■ ■	■ ■
3.	Enter your 6-digit master code or your 4-/6-digit user code e.g. user.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> / <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">4</div>	■ ■	■ ■
4.	Enter your new 4-/6-digit user code e.g.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> / <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div>	■ ■	■ ■
5.	R-enter your new 4-/6-digit user code e.g.	<div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> / <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div>	■ ■	■ ■
6.	The new user code is accepted.			

6.4 Changing the master code K2



Changing the master code is only possible when the lock is **opened**.

			✓	✗
1.	Press and hold the key "2" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■ ■	■ ■ ■ ■
2.	Enter your 6-digit master code e.g.		■ ■	■ ■ ■ ■
3.	Enter your new 6-digit code e.g.		■ ■	■ ■ ■ ■
4.	Re-enter your new 6-digit code e.g.		■ ■	■ ■ ■ ■
5.	The new code is accepted.			

7 Operating/programming operation mode K3

7.1 Locking K3



At any time upon locking a 4-/6-digit user code can be chosen.

		✓	✗
1.	Close the door at the safe and turn the knob into locking position.		
2.	Enter your 4-/6-digit code e.g. user code. The lock is closed.		

- The locking process can be done backwards.

7.2 Opening K3





7.2.1 Opening with user code K3

		✓	✗
1.	Enter your 4-/6-digit previously selected 4-digit user code e.g.		
2.	Turn the knob within 3 seconds into opening position. The lock is opened.		

7.2.2 Opening with master code/facility-master code K3

By entering the master code the user code will be deleted.









When entering the facility-master code the user codes stay valid. The lock has to be closed by pressing a button afterwards.

		✓	✗
1.	Press and hold the key "8" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		
2.	Enter your 6-digit master code/facility-master code e.g.		
3.	Turn the knob within 3 seconds into opening position. The lock is opened.		

- After a wrong code input a long signal tone occurs and the red LED flashes.
- After 4 consecutive wrong code inputs, a blocking time of 1 minute occurs. During this blocking time the red LED flashes every 10 seconds. It is not possible to insert a code during the blocking time is active. After the blocking time expires the red LED stops flashing. After the blocking time has passed 2 further incorrect inputs will restart the blocking time of 1 minute.

7.3 Changing the master code/facility-master code K3

Changing the master code is only possible when the lock is **opened**.

		✓	✗
1.	Press and hold the key "2" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		
2.	Enter your 6-digit code e.g. master code.		
3.	Enter your new 6-digit code e.g.		
4.	Re-enter your new 6-digit code e.g.		
5.	The new code is accepted.		

8 Operating/programming operation mode K4

8.1 Locking K4

At any time upon locking a 4-/6-digit user code can be chosen

		✓	✗
1.	Close the door at the safe and turn the knob into locking position.		
2.	Enter your 4-/6-digit code e.g. user code. The lock is closed.		

- The locking process can be done backwards.

8.2 Opening K4

8.2.1 Opening with user code K4

		✓	✗
1.	Enter your 4-/6-digit previously selected 4-digit user code e.g.		
2.	Turn the knob within 3 seconds into opening position. The lock is opened.		

8.2.2 Opening with master code K4

By entering the master code the user code will be deleted.

		✓	✗
1.	Press and hold the key "8" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		
2.	Enter your 6-digit master code code e.g.		
3.	Turn the knob within 3 seconds into opening position. The lock is opened.		

- After a wrong code input a long signal tone occurs and the red LED flashes.
- After 4 consecutive wrong code inputs, a blocking time of 1 minute occurs. During this blocking time the red LED flashes every 10 seconds. It is not possible to insert a code during the blocking time is active. After the blocking time expires the red LED stops flashing. After the blocking time has passed 2 further incorrect inputs will restart the blocking time of 1 minute.

8.3 Changing the master code K4






Changing the master code is only possible when the lock is **opened**.

		✓	✗
1.	Press and hold the key "2" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		
2.	Enter your 6-digit code e.g. master code.		
3.	Enter your new 6-digit code e.g.		
4.	Re-enter your new 6-digit code e.g.		
5.	The new code is accepted.		

9-13 Valid for all operating modes



9 Reset

In a case of a reset all user codes will be reset to factory mode. Programmed user codes will be deleted. Reset is only possible when the lock is **opened**.


			✓	✗
1.	Press and hold the key "6" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■■	■
2.	Enter your 6-digit master code .		■■	■
3.	Enter the 2-digit reset code.		■■	■
4.	Re-enter your 6-digit master code e.g.		■■	■
5.	Re-enter the 2-digit reset code.		■■	■
6.	The lock is conditioned back in the delivery status.			

10 Testing the system

Press every number once. A functional key will be confirmed by a double signal. A key that was not identified is confirmed by a long signal and the functional test is aborted. The lock has to be checked.



			✓	✗
1.	Press and hold the key "5" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■■	■
2.	Press every key in its order of appearance.		■■	■

11 Bolt position signalisation

			✓	✗
1.	Press and hold the key "4" for eg. 3 seconds.		■■	■
2.	Bolt is in locking position.	Green LED flashes		
3.	Bolt is in opening position.	Red LED flashes		

12 Reading out operation mode

The current operation mode is indicated.

			✓	✗
1.	Press and hold the key "7" for eg. 3 seconds. When releasing the key the green LED flashes permanently.		■■	■
2.	Enter your 6-digit master code e.g.		■■	■
3.	Decade = number of beeps + red LED Pause + flash red LED Unit digit = number of beeps + green LED + red LED			
4.	The signalisation is completed.		■■	

13 Power supply and battery change

- The lock is power supplied by one 9 V block battery alkaline (no rechargeable batteries!). When battery voltage is insufficient, after entering the code a warning tone occurs repeatedly and the red LED flashes alternately. Change the battery as quickly as possible. The programmed codes stay valid during battery change.
- With fixed battery compartment:
If the battery should be as empty that no more code can be entered and opening of the safe becomes impossible, the lock can be powered from the outside. Remove the foil at the given points (fig. 1). Hold a 9 V block battery onto the contacts of the input unit and open the lock as described.
- Always dispose used batteries in an environmentally friendly way.

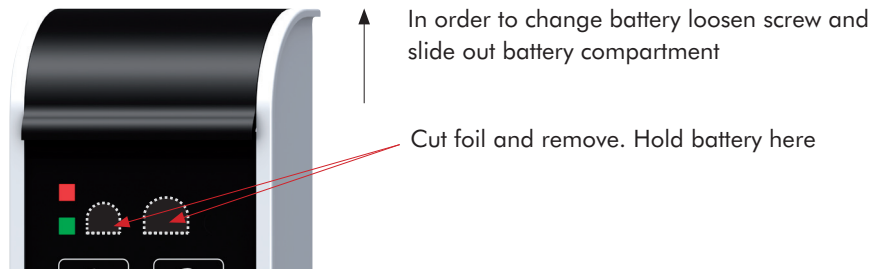


Fig. 1: Battery compartment SmartCam and emergency powering contacts

Notice