

CyLock



Safety remote door lock

Anti-hack with new security technology iKnock™

Anti hacker

Anti

Rolljam Attack
Replay Attack
Bruteforce Attack

Invention with 3 novel claims:

WIPO patent No. WO2021174264

Taiwan patent No. X211669TW1

Vietnam patent No. 1-2021-01076



Onyx

Onyx Vietnam JSC.,

Why CyLock

In 2015 at Defcon, by Samy Kamkar, the Rolling-code was proven that have a serious security flaw and is no longer secure.

In Vietnam, 100% of remote door locks are using fixed- code or rolling-code

On over the world, rolling code is still widely used and become a target for bad guys to exploit that RollJam-Attack security flaw.

Need other security technology instead.

Advantages of the new security technology iKnock™

	Fixed-code	Rolling-code	iKnock™
Protocol concept:	Open with correct code Not care where the code comes from	Open with correct code Not care where the code comes from	Open when correct code received from the authenticated-key
Number space of code words:	8 - 10 - 12 bit 256 - 1024 - 4096	32 bit $2^{32} = 4.294.967.296$	256 bit $2^{256} \sim 10^{77}$
Security flaw:	Replay attack, Bruteforce Easy to clone.	Rolljam attack. Easy to clone.	NO Security flaw, Can not clone: each key is unique

CyLock are protected by iKnock™

CyLock – Safety remote door

The Lock CyLock

Unbreakable crypto: AES,SHA.

Safety protocol: Anti capture code, anti clone.

Save: When the key lost, don't have to replace the lock. Can pair/unpair multiple keys with 1 lock.



The Key CyKey

Water proof IP68.

Save energy, no need battery-changing.

Endurance with 100,000 button presses.



Unhackable

Unhackable with nowadays computing technology.



Eco energy saving

The Key survived in 10 years with only 1 battery.



Privacy

No back door, vendors do not interfere for unlocking.



Endurance

Durable and highly efficient operation in noisy environment.

CyLock

Safety remote door lock

Other products of Onyx Vietnam

Onyx
Cypher

eFence
electronic security fence

TrustFaceID

 **TrueOrigin**
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