



Powered by
EZVIZ AI

EZVIZ DL50FVX

***Dual-Cam Face Recognition &
Palm Vein Smart Lock***



The smart lock that knows you better, protects you smarter

***AI intelligence
that unlocks
only for you***

Secure & Fast Facial
Recognition with 3D In-Depth
Sensing Technology



Palm Vein Recognition
for Additional Touchless
Convenience¹



12 nm High Performance
AI Chip & Dual-Core CPU



Fully Localized Data
Processing & Storage with
Your Privacy at First²



Remote Unlocking & Status
Checking via the EZVIZ App



Picture-in-Picture View on a
4-Inch Indoor Smart Display



Live View with
Two-Way Video Call



Wandering Detection
with Real-Time Alerts



***Next-gen vision
that sees all your
needs***

***Reliable
protection that
never rests***

Dual Rechargeable Lithium
Batteries for Extended Power

5,000mAh+



2,250mAh

Sturdy Lock Body with
Anti-Tamper Alarm



Welcoming Warm Light
Modes for a Thoughtful Arrival



Soft-Light Night Vision for
Lifelike Views Day and Night



Because coming home should feel warm-hearted

As dusk settles, a soft glow spills across your doorway. The light greets you gently as the world outside grows still, and warmth gathers at your feet. The DL50FVX turns every homecoming into a quiet moment of welcoming, and alive with light. The new upgrade is about opening the door, but about the feeling of comfort, of belonging, and of home.



Designed to see what one camera cannot

Two built-in cameras make all the difference. The top lens instantly recognizes you from any angle, while the newly added bottom camera keeps an eye on what's happening at your door, from spotting packages to seeing who's stopping by.





Primary View



Secondary View

See every detail matters— from head to toe, from inside out

The 4-inch indoor smart screen features a picture-in-picture display that keeps you aware of what's happening outside, without ever opening the door. Even when a little one tiptoes up the steps, hiding a gift behind their back for a surprise, the lower camera quietly captures the moment. You see it all, the smile, the excitement, the love, right from the front door of your home.

Light up your way back home

Whether you're coming home, greeting a guest, or stepping out at night, the lighting responds instantly, always one step ahead, always looking out for you.

Welcome Projection Light



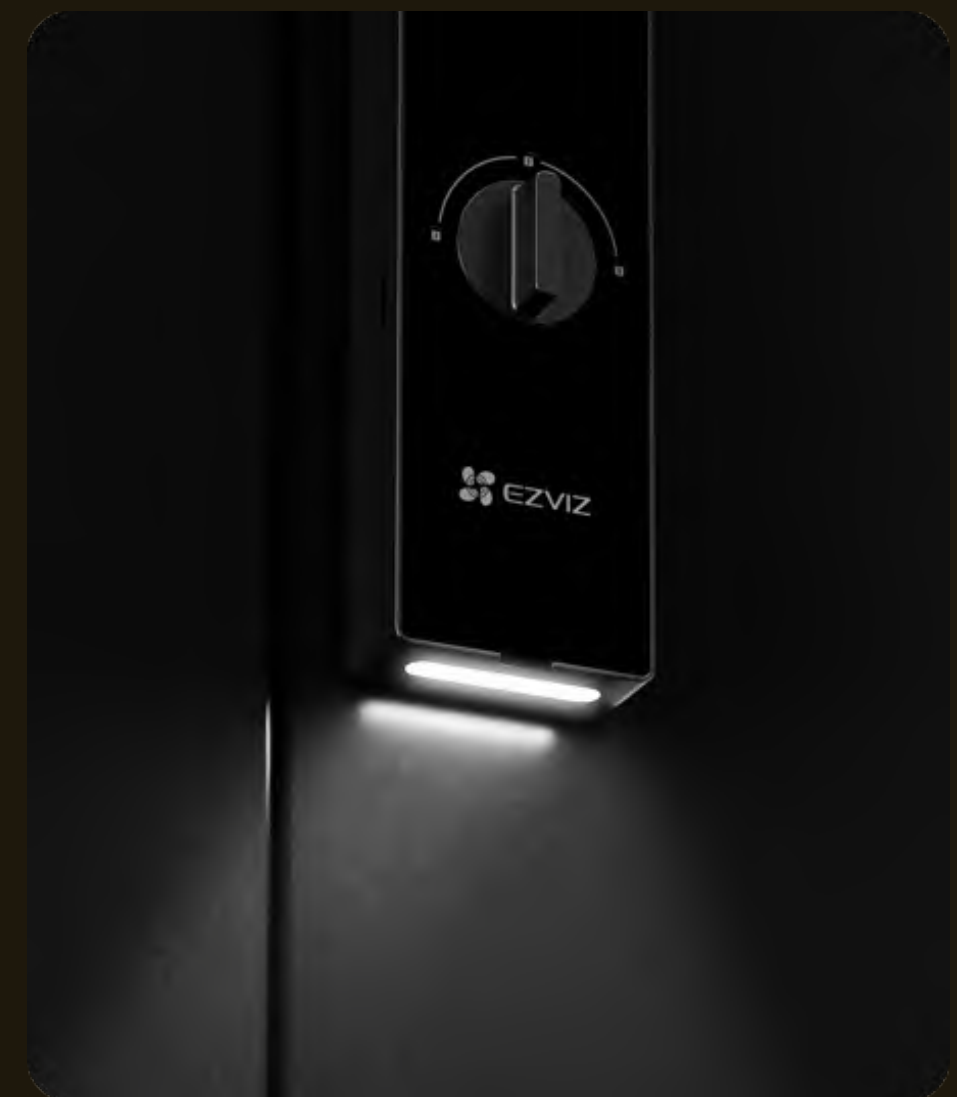
As you approach, a soft beam gently illuminates the EZVIZ logo on the ground, a graceful gesture that turns every return home into a moment of quiet delight.

Dynamic Indicator & Smart Doorbell Light



The lights respond before you even reach the door, softly brightening as someone draws near, creating a warm and inviting welcome for every guest.

Smart Night Light



When night falls, a gentle glow lights your way inside, then fades softly once you're home, a tender touch of warmth that lingers just long enough to make you feel at ease.

True clarity at your front door, even after dark

With advanced soft-light night vision and intelligent image processing, the smart lock captures bright, full-color visuals that look remarkably natural. Faces appear clear, detailed, and lifelike, never washed out or shadowed, giving you a more realistic and reassuring view every time someone approaches your door.



Large F1.6 Aperture Lens



1/2.7-Inch CMOS Sensor

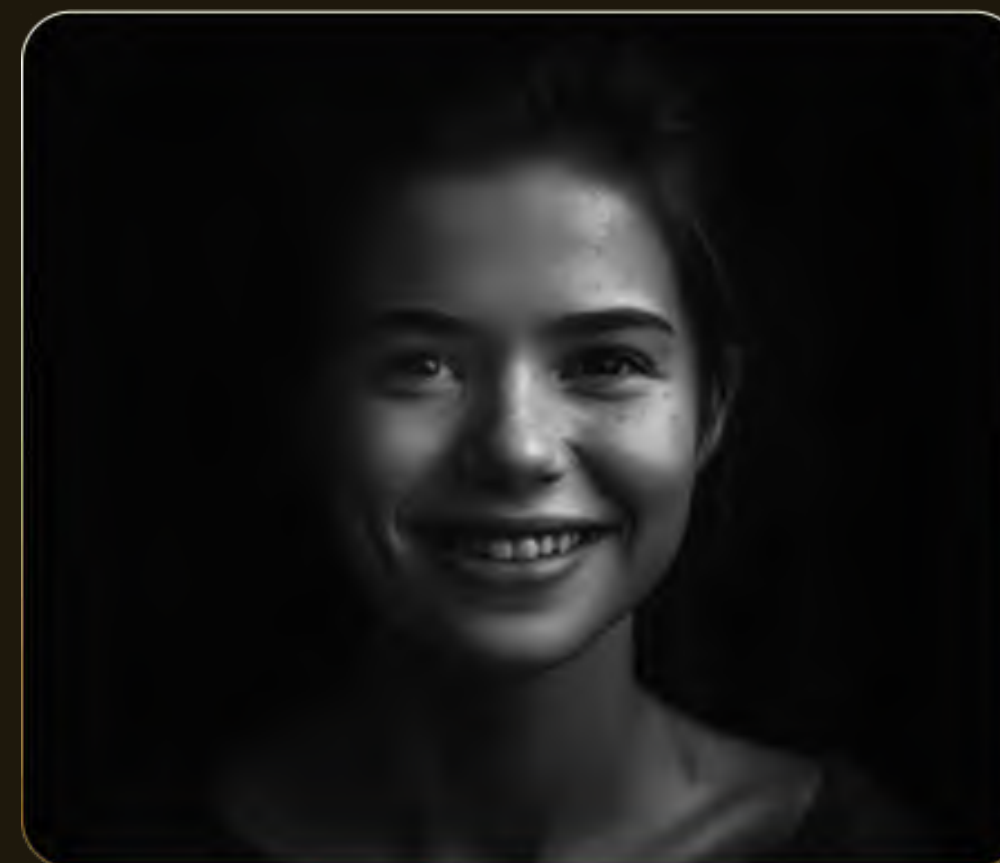


AI-ISP Technology



DL50FVX Smart Lock

VS



Traditional Smart Lock

Active and smart as a security guard

Thanks to EZVIZ's smart visual technology, your lock knows when someone's near, or hanging around. It detects human movement by your door and sends instant alerts, keeping you in the know, day and night.



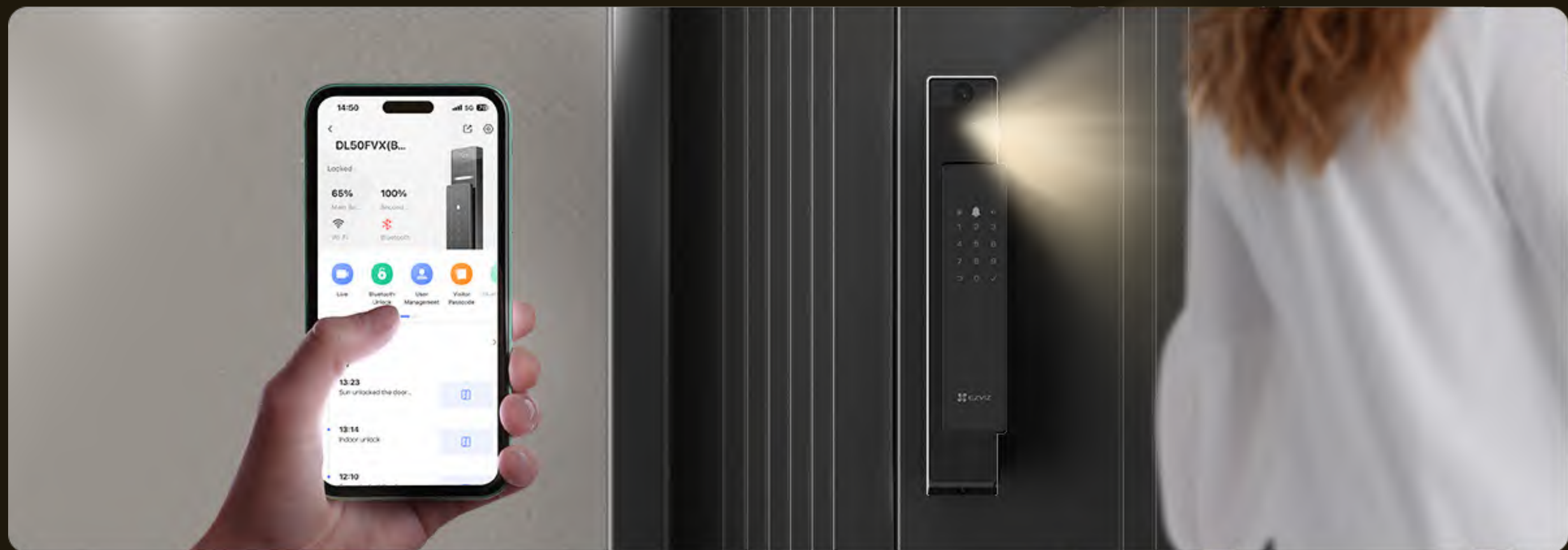
5.8 G Radar Human Presence Sensor⁶



IR Night Vision
(up to 2 m)



Detection Video Replay
Built-in Memory Card



Next-generation AI built for smart locks

Only very few companies in the lock market develops and owns AI technologies, and fewer can bridge them with useful, user-friendly products through extensive real-life testing. EZVIZ is one of them.

Algorithm that leads

EZVIZ AI 3D modeling & recognition 3.0

that optimizes speed, accuracy, and adaptability

Security that endures

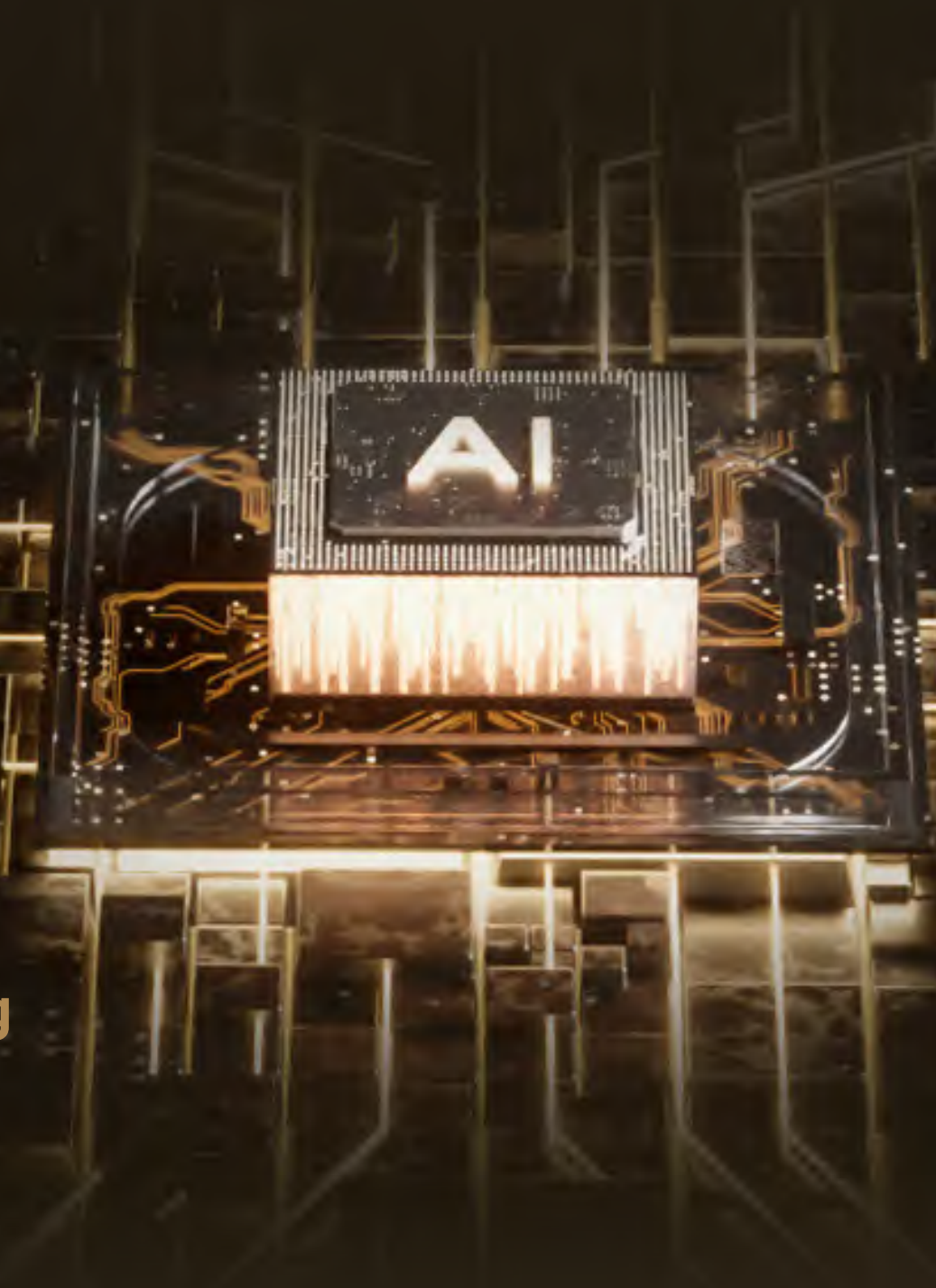
Strict data protection and end-to-end encryption, with **fully localized processing of facial recognition data**

Hardware that excels

Built-in 12 nm high performance AI chip and **dual-core CPU** design that drive unmatched high performance

Intelligence that enhances

Supports **over-the-air software updates** to your smart lock over time with longer product life cycle



State-of-the-art AI for convenience & security

≤ 1 second unlocking time³

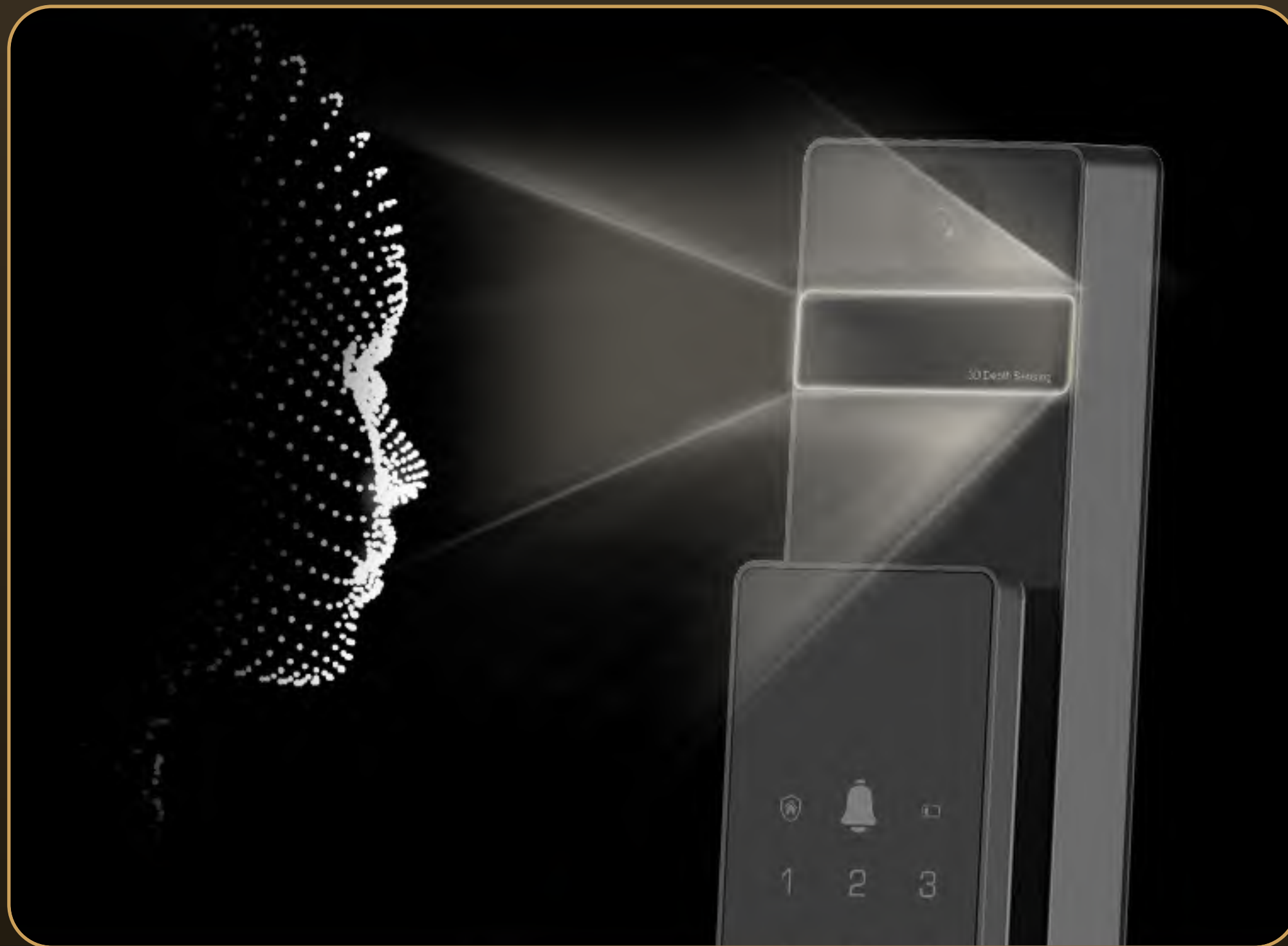
for instant response & ultra-smooth experience

$\leq 0.0001\%$ false acceptance rate⁴

to ensure extremely high level of security while being fast in recognition

$\leq 0.1\%$ false rejection rate⁵

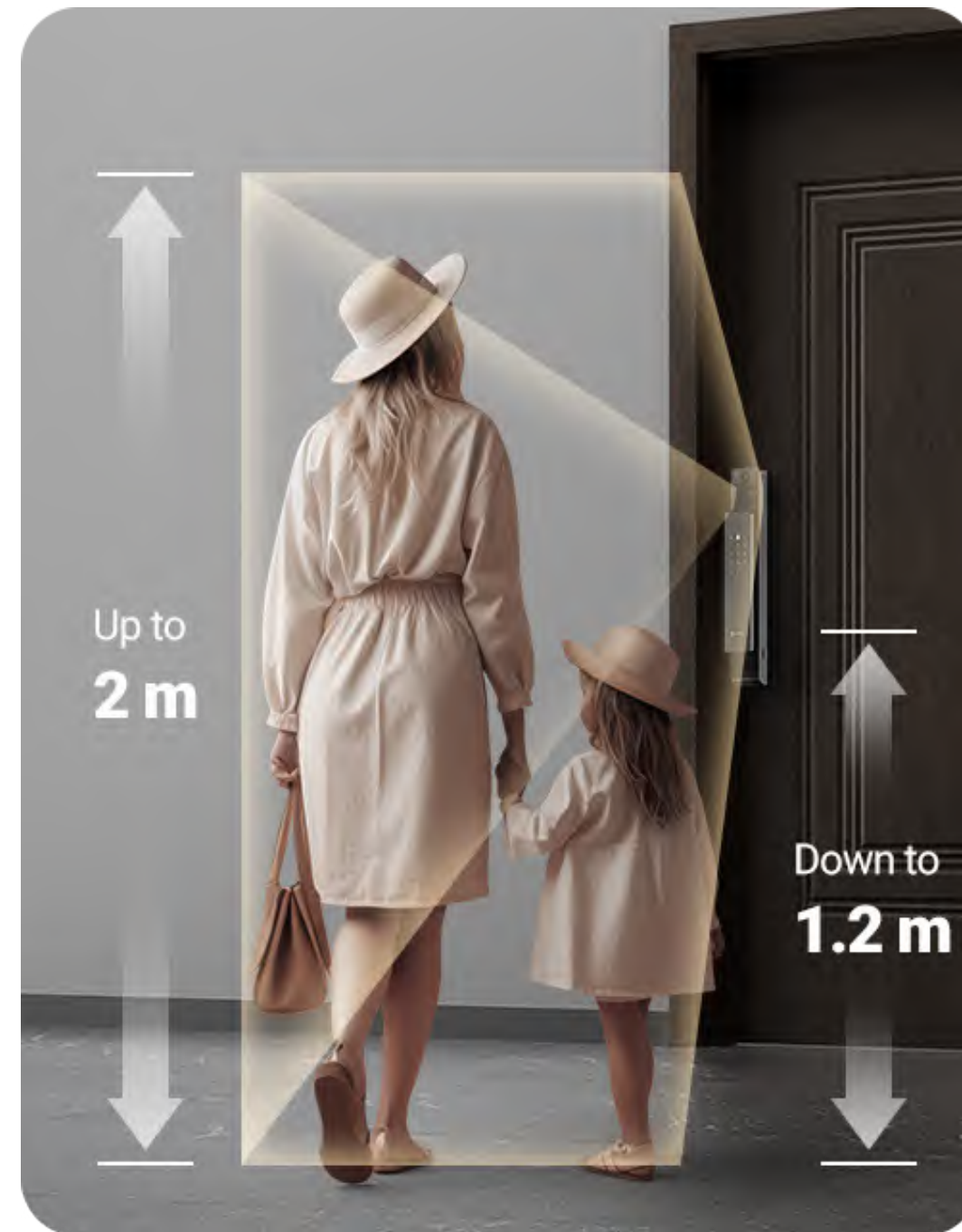
to greatly reduce frustration caused by repetitive verification



Much better than your ordinary facial recognition lock

Forget the forced pose— It knows you well

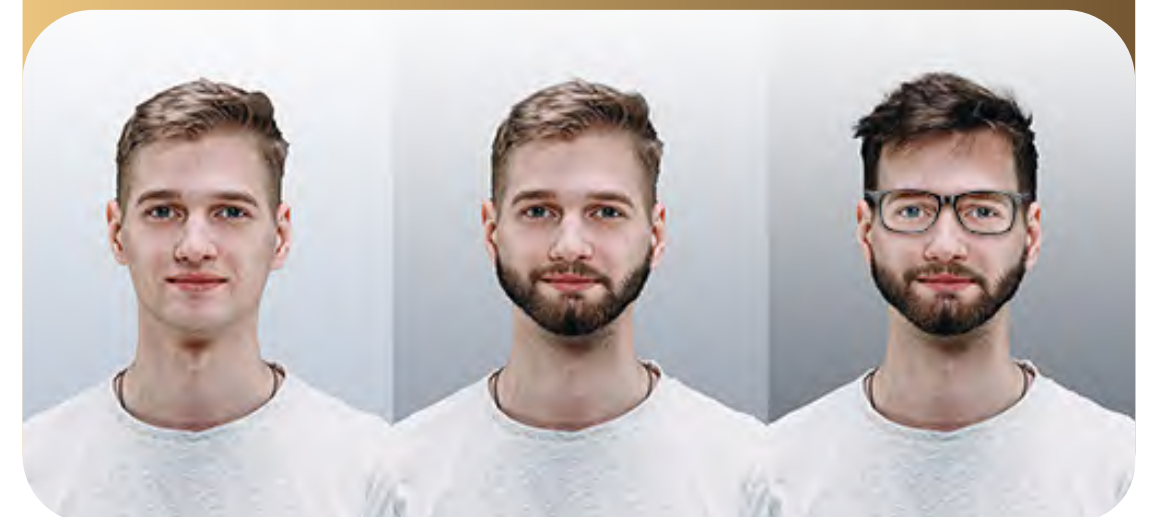
No need to pause, pose, or smile for the camera. Just walk up and let the lock recognize you naturally. Faster, easier, and friendlier than any ordinary facial recognition lock.

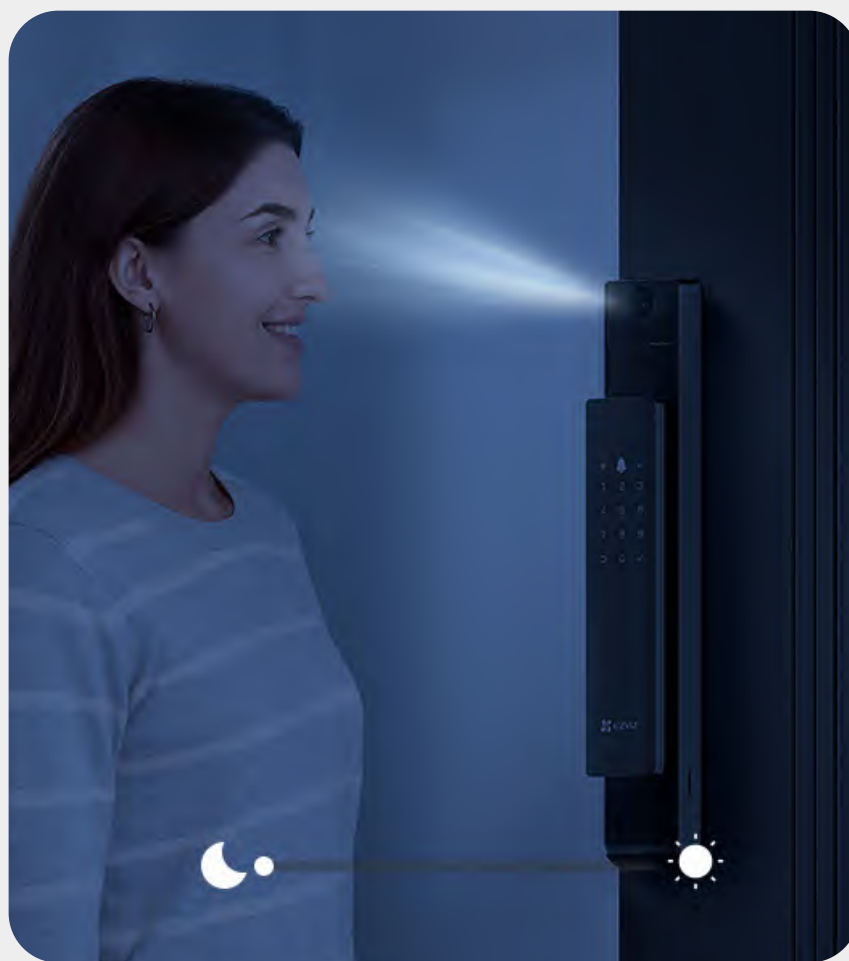


Despite hairstyle & makeup



Sees through glasses & beards





✓
Dim hallway



✓
Bright daytime

Ready for every moment, despite lighting conditions

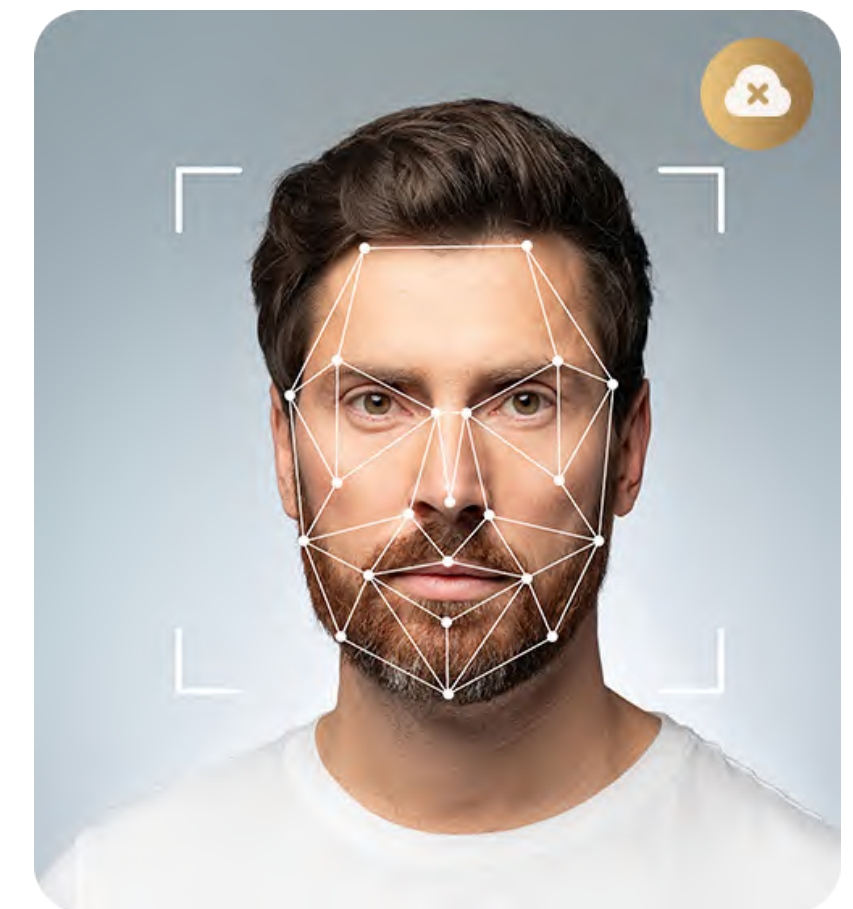
With EZVIZ's advanced video technology, the DL50FVX doesn't compromise its performance, even if you arrive home late.

Tirelessly protects, with security at its core

Security is the cornerstone of a good lock. We build the DL50FVX with multiple technologies to ensure that both your home and your data are well protected.



✗
Can't be fooled by photos, videos,
3D masks or statues



✓
Localized 3D data processing without real-life
user photos stored or transmitted

Unlocking made more personal

Simply raise your hand, and the door responds. The smart lock identifies you by your unique palm veins, giving you a touch-free, effortless, and worry-free way to come home.



**Less constraints
from face coverings**



**Less restriction
on users' height**

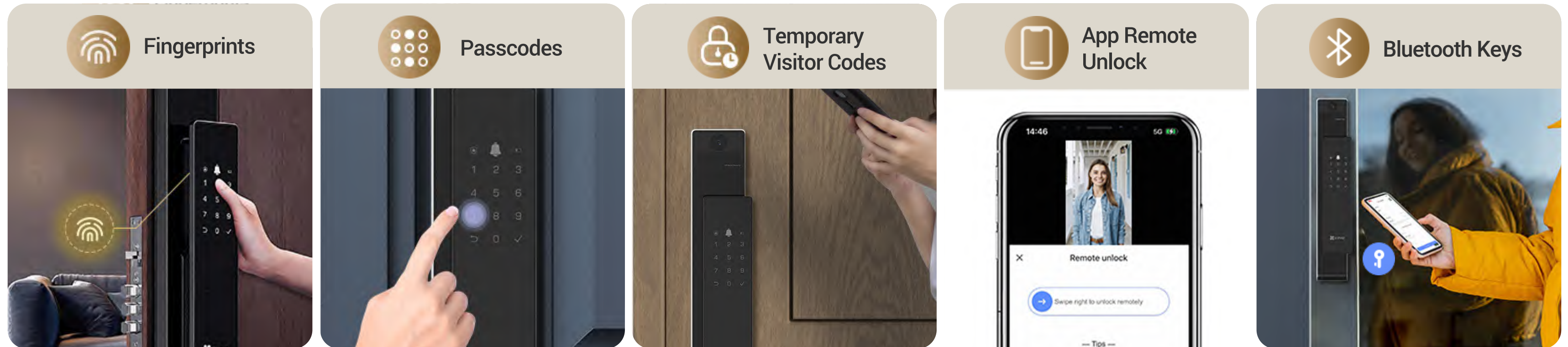


**Less worries
on worn fingerprints**

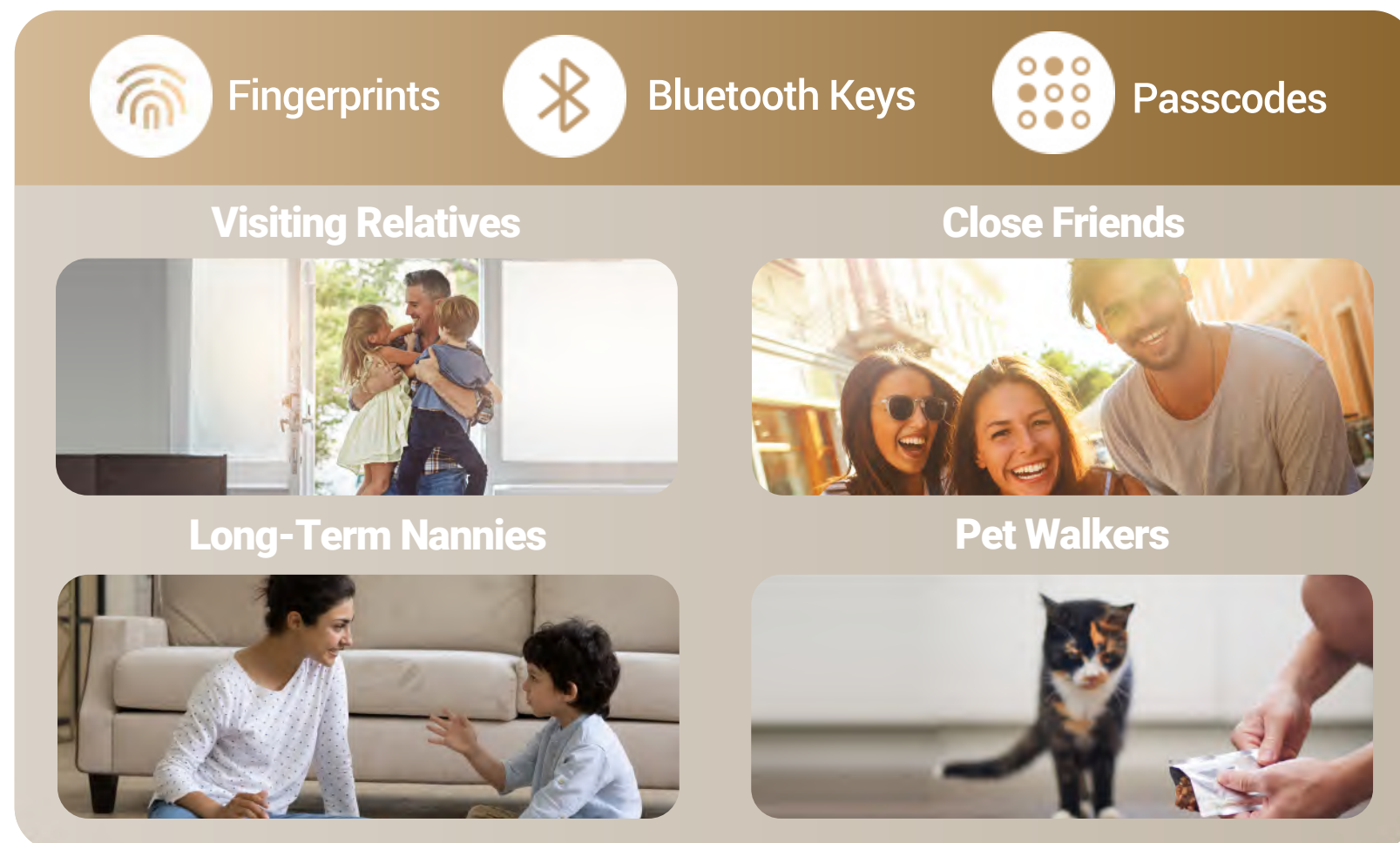


More ways to enter for tailored convenience

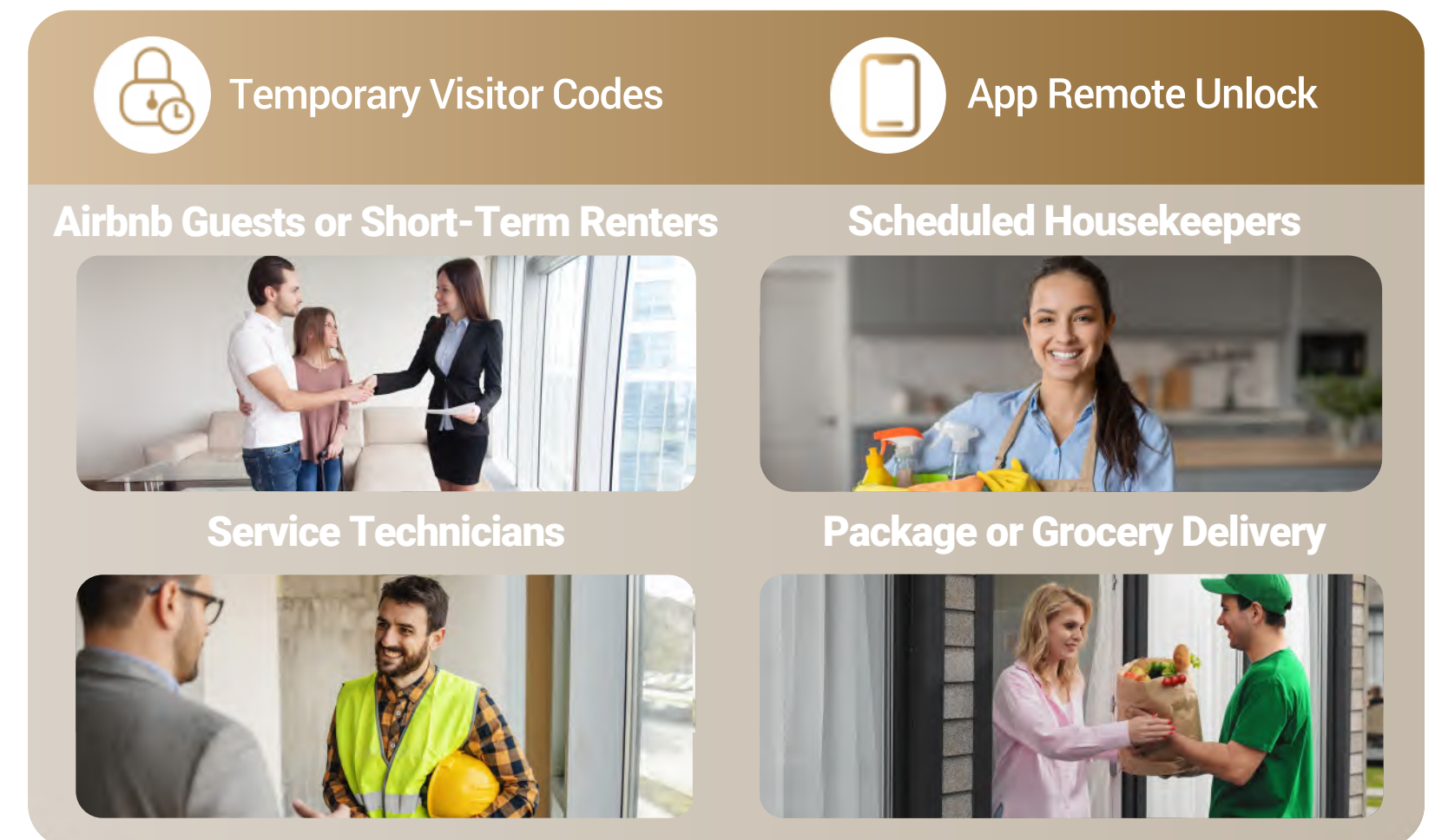
Your household can be busy with comes and goes, and you may not always be there to welcome the ones you trust. Choose what's convenient for your family and visitors, while keeping your front door under your watch.



For regular visitors

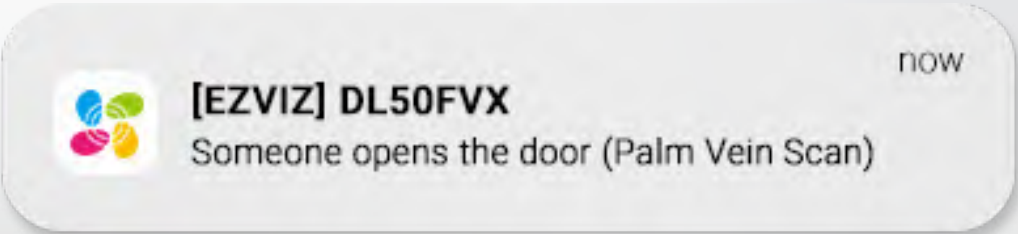


For services & deliveries

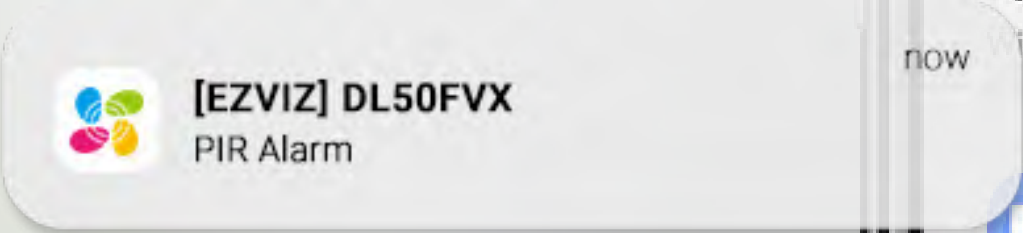


Extra peace of mind, all at your fingertips

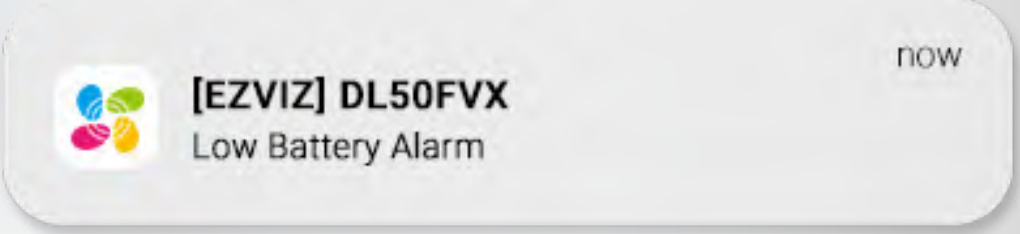
Instant notifications on attempted unlocking



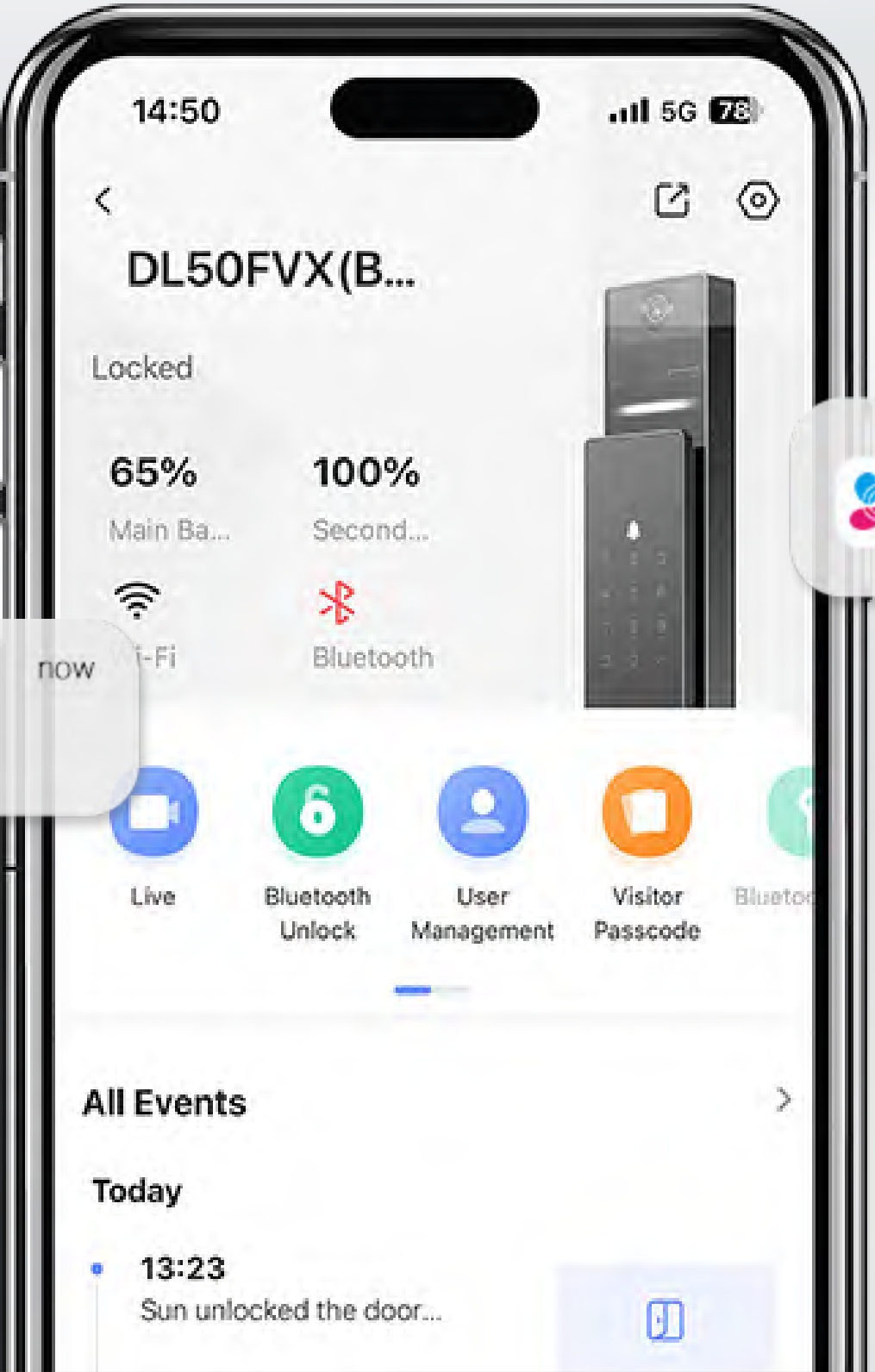
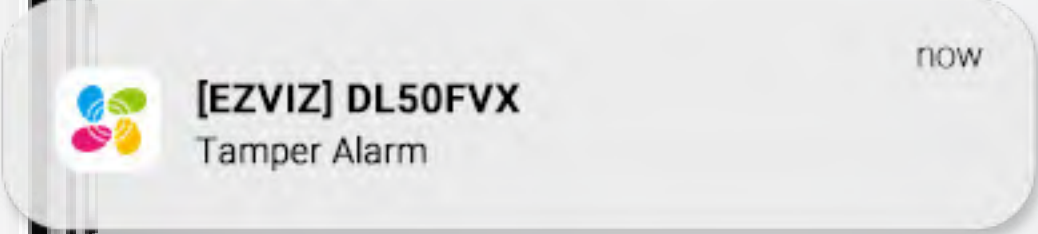
Real-time detection alerts on people who linger



Low-battery warning



Anti-tamper alarm



Lock status & activity log check

* For illustration purposes only.



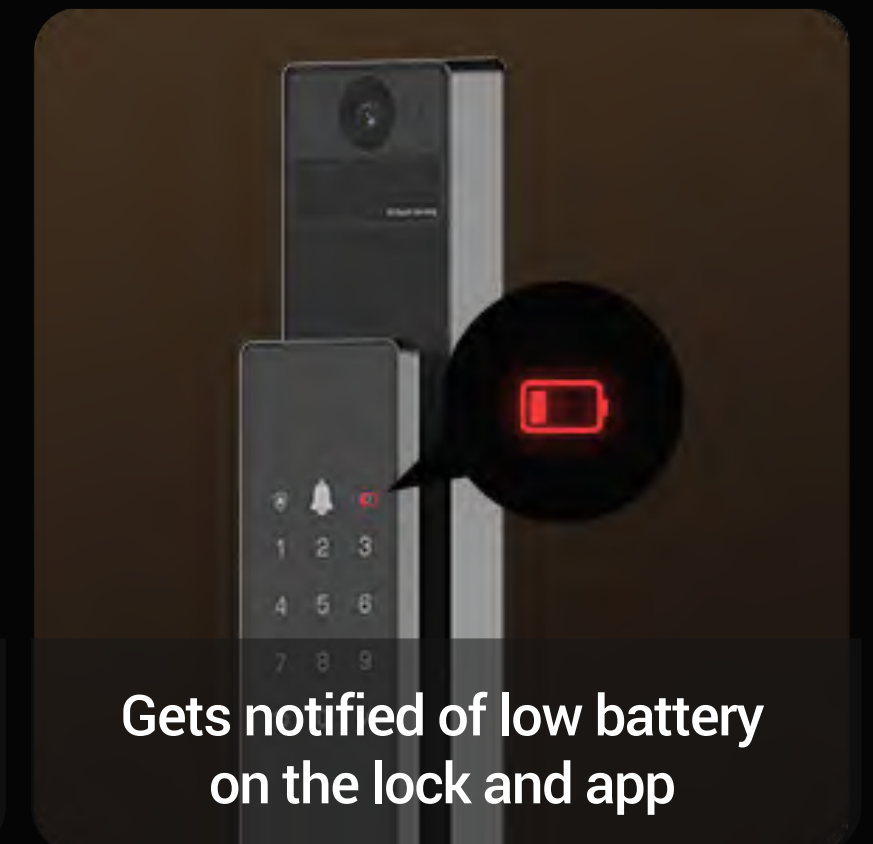
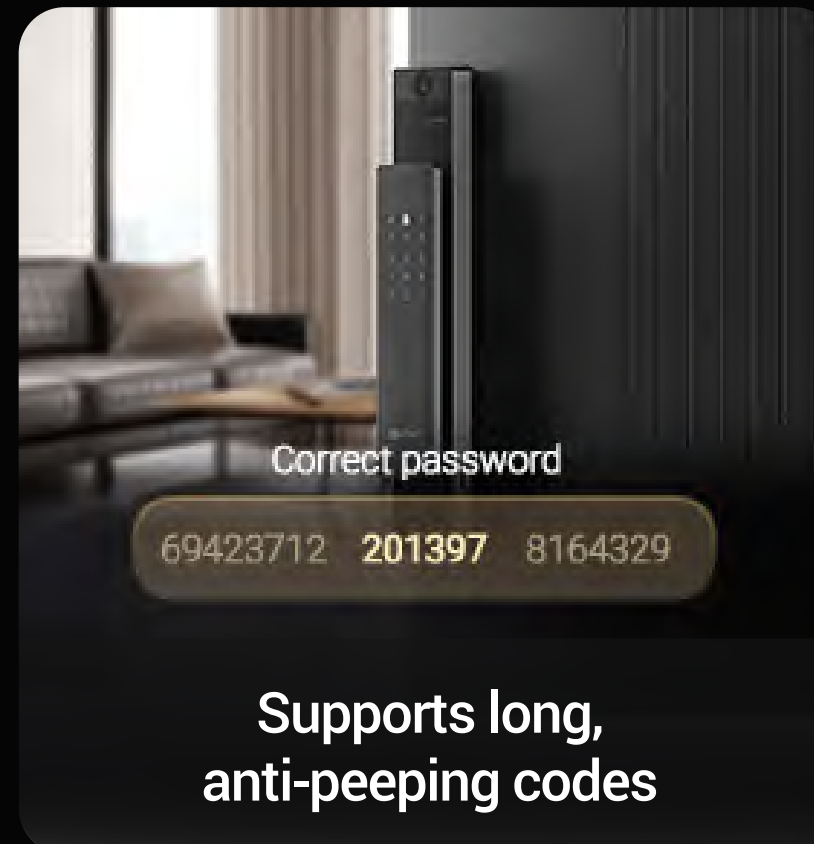
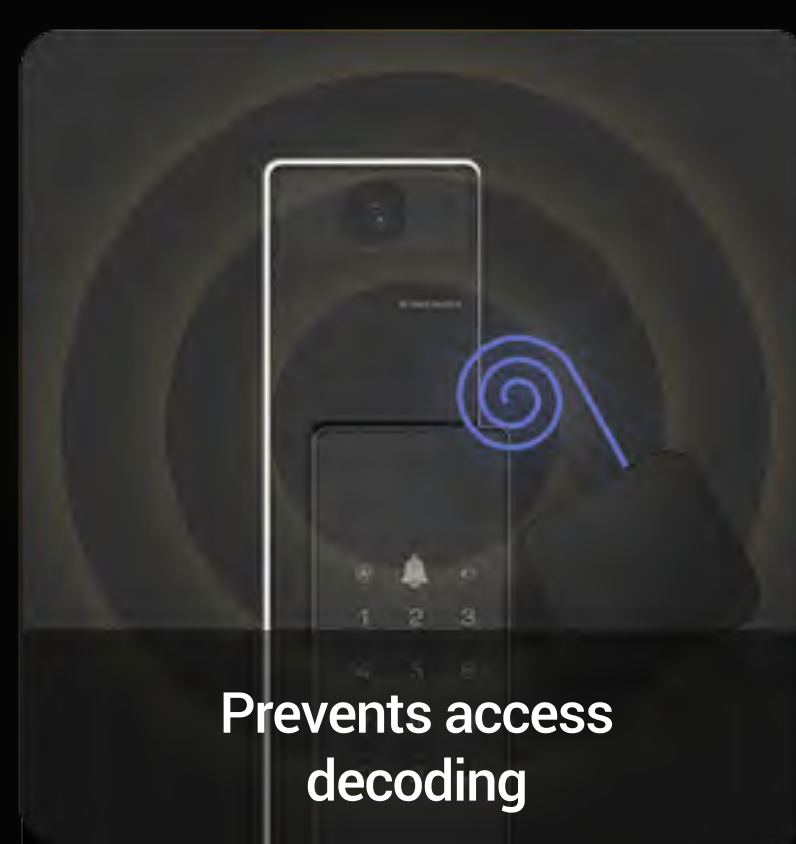
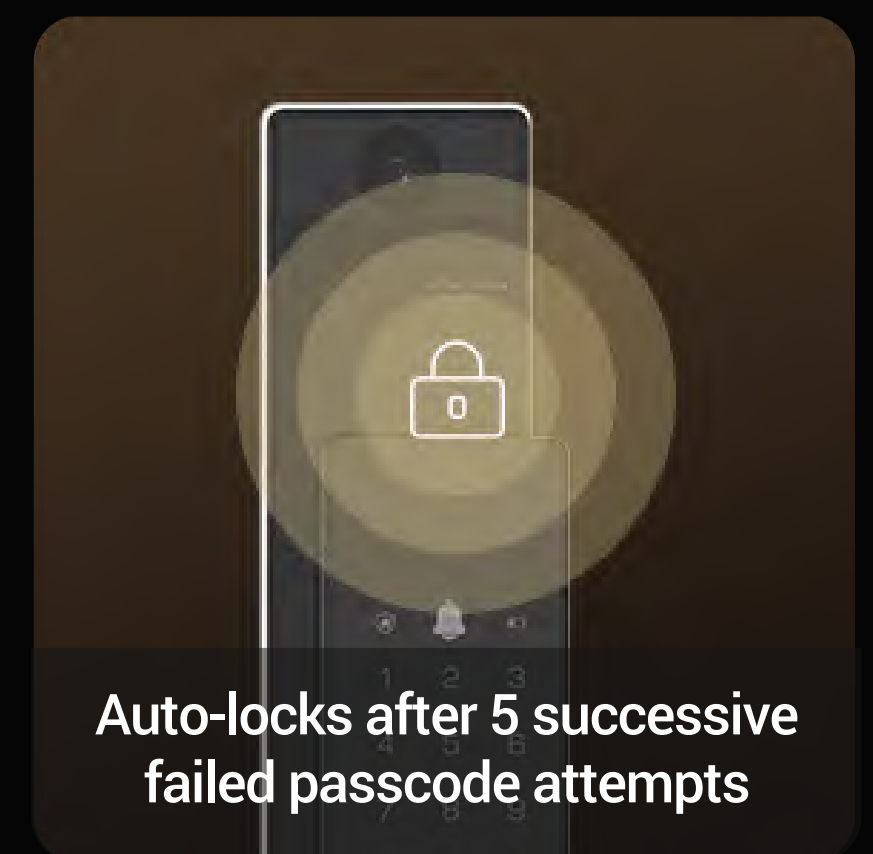
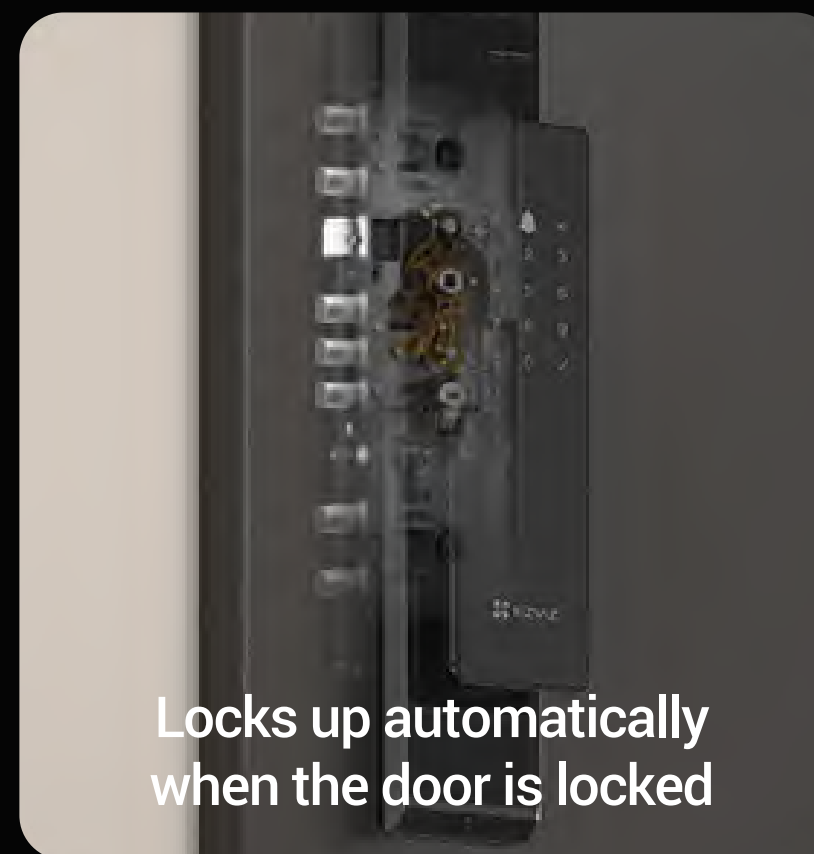
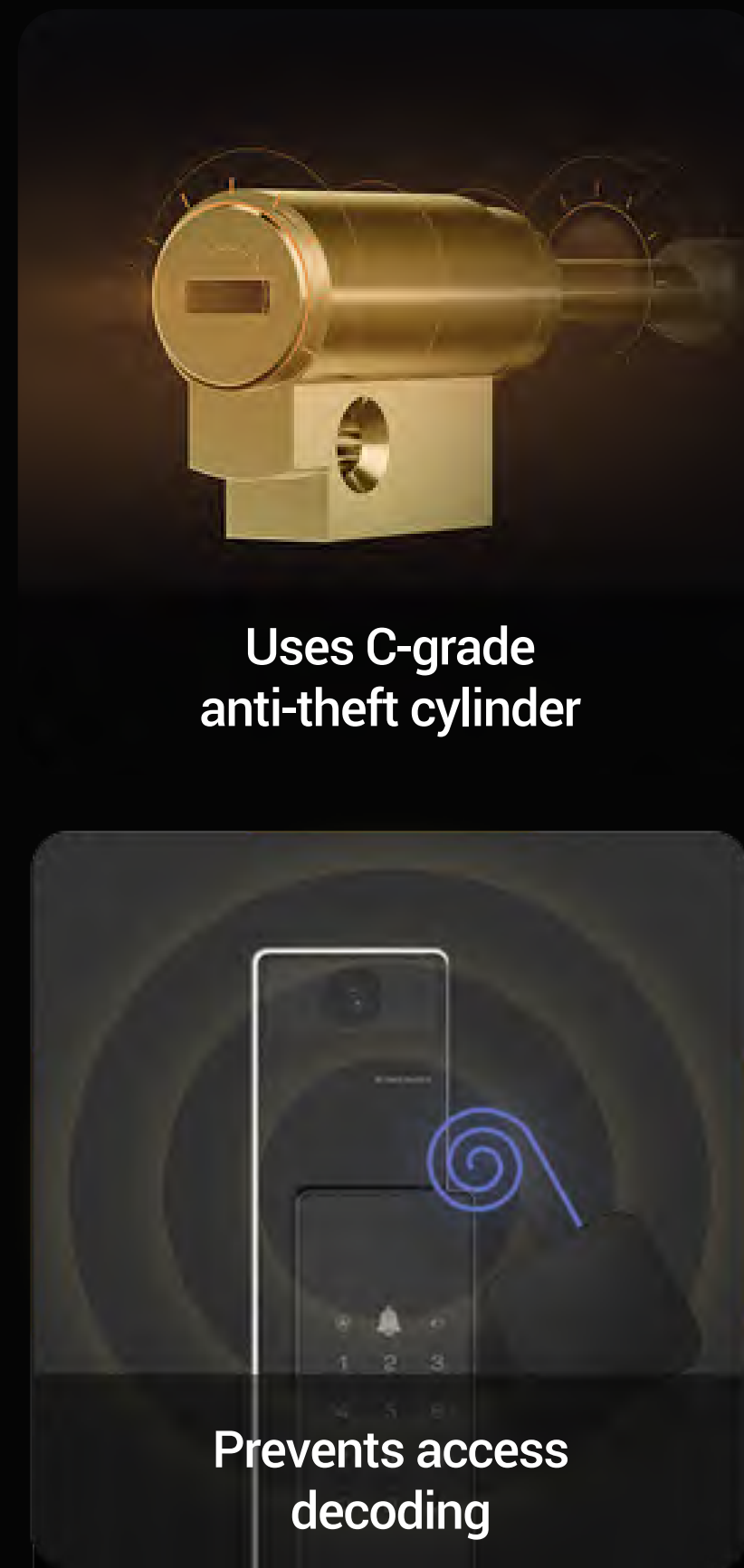
5,000mAh+

Two batteries working as one, always on

With two rechargeable lithium batteries working together, the smart lock keeps running smoothly day after day. When the main battery runs low, it automatically switches to backup power — so your door never goes offline. And even if both batteries run out, a quick plug-in through the Type-C port gets you back in instantly.

2,250mAh

Security you can trust in every part



Stand strong and protect always

Designed to endure real-world conditions, the smart lock passes rigorous testing for weather resistance, long-term use, and electrical safety, delivering reliable protection you can count on.



96 Hours

Neutral Salt Spray Test

15 KV

Air Electrostatic Discharge Test

100,000 Times

Full Device Life Cycle Test

-10°C ~ 55°C

High and Low Temperature Test

We're committed to protecting with trust

We put security as the primary goal of every product and system that we build, and assiduously improve our practices to better protect your device, data and privacy.

[Learn more about our security practices >](#)

Local Storage



End-to-end Data Encryption

AES
Data Encryption

TLS
Data Transmission
Encryption

Our global certifications in the fields of **information security, privacy**
information security, and cloud security



- 1 Please note that the palm vein scanning area does not include fingers. When using the palm vein unlocking function, please place only the palm part on the scanner. The optimal palm vein scanning distance ranges from 15 cm to 25 cm for adults, with a recommended distance of 10 cm for children. These distances may vary depending on environmental conditions, such as strong sunlight.
- 2 The biometric recognition technology in DL50FVX operates ENTIRELY LOCALLY on the product that you control and manage yourself, and only serves the sole purpose of supporting your decision of unlocking. During the whole course, the saved data always only contains technical value, i.e. the biometric data obtained from the templates you proactively provided in advance (such as facial images, palm vein templates), which cannot be used to reconstruct your original data.
- 3 Data from EZVIZ Lab's testing results based on standard conditions. The actual recognition speed may vary due to environmental factors.
- 4 Data from EZVIZ Lab's testing results based on standard conditions. The actual false acceptance rate may vary due to various objective factors, such as heavy makeup or strong sunlight exposure.
- 5 Data from EZVIZ Lab's testing results based on standard conditions. The actual false rejection rate may vary due to various objective factors, such as heavy makeup or strong sunlight exposure.
- 6 The human presence sensing feature uses the built-in radar sensor and does not involve the detection of human faces. You can choose to activate or deactivate this function on the EZVIZ App.
- 7 When being connected via Bluetooth with the Wi-Fi mode disabled, the lock can run up to 4 months with fully charged batteries based on the usage of 10 openings per day. When the lock is connected via Wi-Fi, its battery life may reduce due to internet activities, and the actual use may vary due to the network stability or other environmental factors.

Specifications

CS-DL50FVX

Material and Specification

Panel Material	Aluminum alloy
Panel Size	Front panel: 440 × 74 × 25.8 mm; Rear panel 440 × 74 × 31.6 mm
Color	Metallic grey
Lock Body Type	Automatic mechanical detection lock body 5085 / 6068
Lock Cylinder	C-level cylinder
Emergency Charging	Type-C
Working Power	5000 mAh + 2250 mAh rechargeable lithium batteries

Technical Specification

Unlocking Method	Face ID, Palm Vein, Fingerprint, Passcode, Mechanical key, Bluetooth key via EZVIZ App, Temporary codes, Remote unlocking
User Capacity	50 pcs
Face ID Capacity	50 pcs
Palm Vein Capacity	50 pcs
Fingerprint Capacity	50 sets
Passcode Capacity	50 pcs
Communication Methods	2.4 GHz Wi-Fi, Bluetooth
Screen (Non-touch)	IPS 4-inch (480 × 800)
IP Grade	IP52
Front Panel Camera Lens	Upper camera: 120° (horizontal), 90° (vertical), 162° (diagonal) 1504 × 1968; Bottom camera: 126° (horizontal), 70° (vertical), 152° (diagonal) 1920 × 1080

IR Night Vision Distance	2 m
Storage	EMMC 8G, Supports EZVIZ CloudPlay storage (Subscription required)
Face Recognition	Standing distance < 1 m, height greater than 1.2 m and less than 2 m; recognition speed ≤ 1 s, supports day / night recognition; supports recognition across varying hairstyle and with glasses * EZVIZ laboratory data
Palm Vein Recognition	Recognition distance between the palm vein and sensor: 15~25 cm * EZVIZ laboratory data
Software Function	Anti-peeping code, Low battery warning, Privacy mode, User management, Real time notification, Anti-test locking, Anti-tamper alarm, Remote control, Video calling, Voice changer, Wandering detection
Voice Control	Supports Google Assistant and Amazon Alexa (Supports OTA updates)
Supported Door Thickness	6068: 40 ~ 120 mm; 5085: 40 ~ 100 mm
Working Temperature	-10°C ~ 55°C
Operating Humidity	10% ~ 95%

In the box

- Front Panel
- Rear Panel
- Hole Template
- Lock Body
- Lock Body Screw Bag
- Standard Screw Bag
- Lock Body Retainer Box (For 6068 Version)
- Battery × 2
- Key Bag
- Square Rod
- Bumper Pad
- Sticker
- Regulatory Information
- Quick Start Guide × 2

Certifications

CE (EMC / LVD / RED / RoHS) / REACH / SVHC / WEEE

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