



EZVIZ DL20F

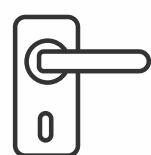
Face Recognition & Palm Vein
Smart Lever Lock

Grasp the handle. Let AI do the rest.



Unlock smarter front door security with the DL20F, an AI-powered smart lever lock designed to make everyday access effortless and secure. It recognizes you before you touch it, using face and palm vein recognition to welcome family and trusted visitors with ease while helping keep unwanted guests out. Powered by advanced AI technology, secure local processing and storage, and flexible unlocking options, the DL20F brings intelligent protection naturally into your everyday life.

Key Features



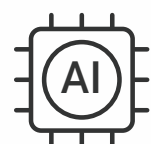
User-Friendly Lever
Handle Design



Secure & Fast Face
Recognition with 3D
Sensing Technology



Palm Vein Recognition
for Additional Touchless
Convenience¹



12 nm High Performance
AI Chip & Dual-Core CPU



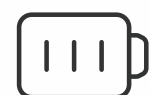
Fully Local Data
Processing & Storage with
Your Privacy at First²



Safe Design Against
Peeping & Forced Entry



Sturdy Lock Body with
Anti-Tamper Alarm

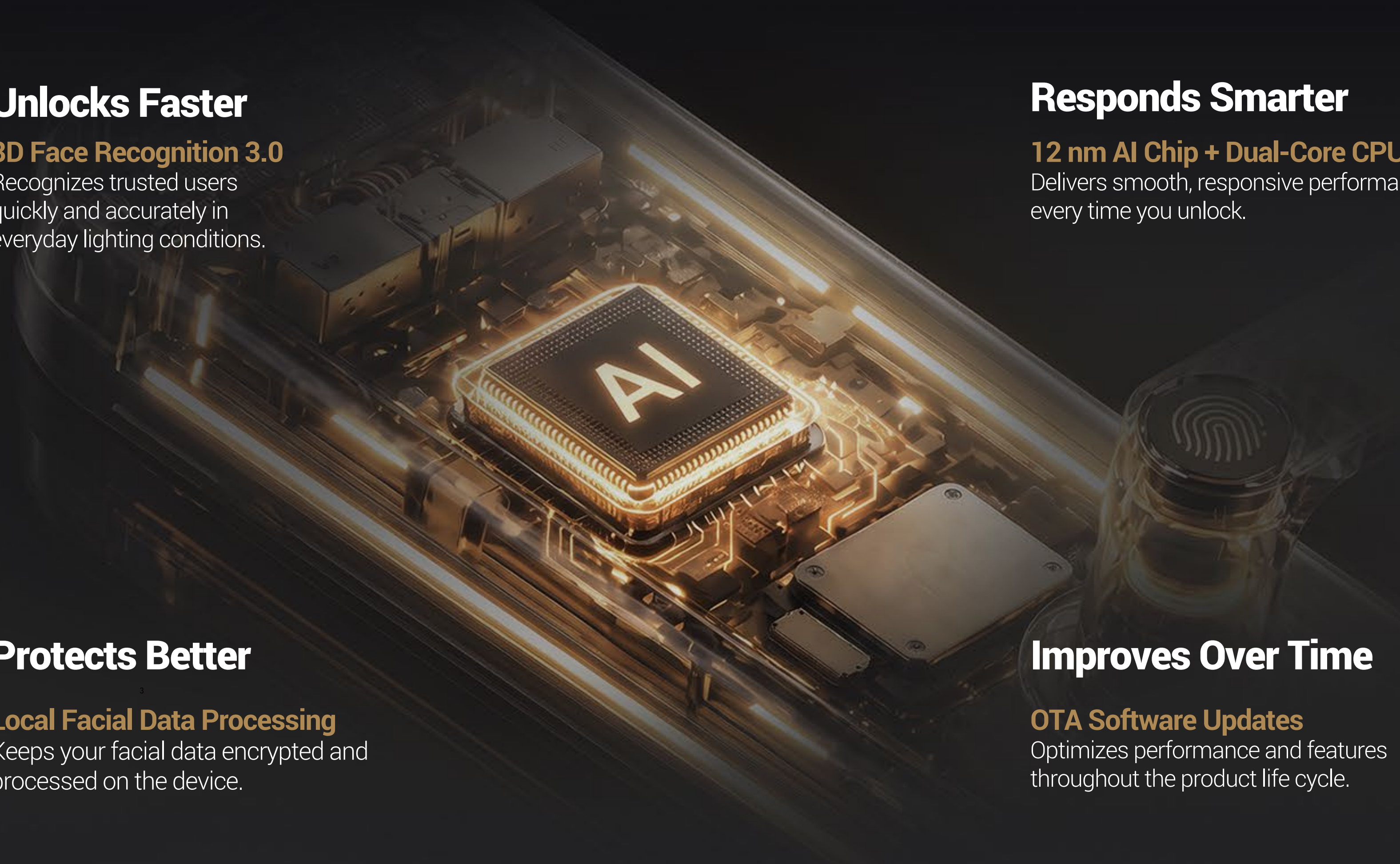


Large-Capacity
Rechargeable Lithium
Battery



Remote Unlocking
via the EZVIZ App

Next-Generation AI Built for Smart Locks



Unlocks Faster

3D Face Recognition 3.0

Recognizes trusted users quickly and accurately in everyday lighting conditions.

Responds Smarter

12 nm AI Chip + Dual-Core CPU

Delivers smooth, responsive performance every time you unlock.

Protects Better

Local Facial Data Processing

Keeps your facial data encrypted and processed on the device.

Improves Over Time

OTA Software Updates

Optimizes performance and features throughout the product life cycle.

Built for Your Convenience & Security



≤ 1 sec Unlocking Time³

For Ultra-Smooth Experience

$\leq 0.0001\%$ False Acceptance Rate⁴

For Maximum Security

$\leq 0.1\%$ False Rejection Rate⁵

For Less Repeated Verification

Palm Vein Recognition

Your Palm Is the Key, One Hand Does It All

Beyond secure 3D face recognition, your palm can also unlock the door. Simply place your palm in front of the lock and press the handle for quick, effortless access.



Works Even with
Face Coverings



Works Across
Different Heights



Works Beyond
Worn Fingerprints



Secure & Fast Face Recognition with 3D Sensing Technology

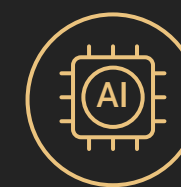
Your Face Unlocks, Your Hand Does the Rest

Coming home has never been easier. Simply let the DL20F recognize your face, press down the handle, and walk in. The door locks automatically behind you, so every entry feels effortless from start to finish. Powered by advanced AI, the DL20F brings safer, smarter access to your family, making every day easier and more secure.



User-Friendly
Lever Handle

+



Industry-Leading
AI Technology

+



Family-Ready
Convenience



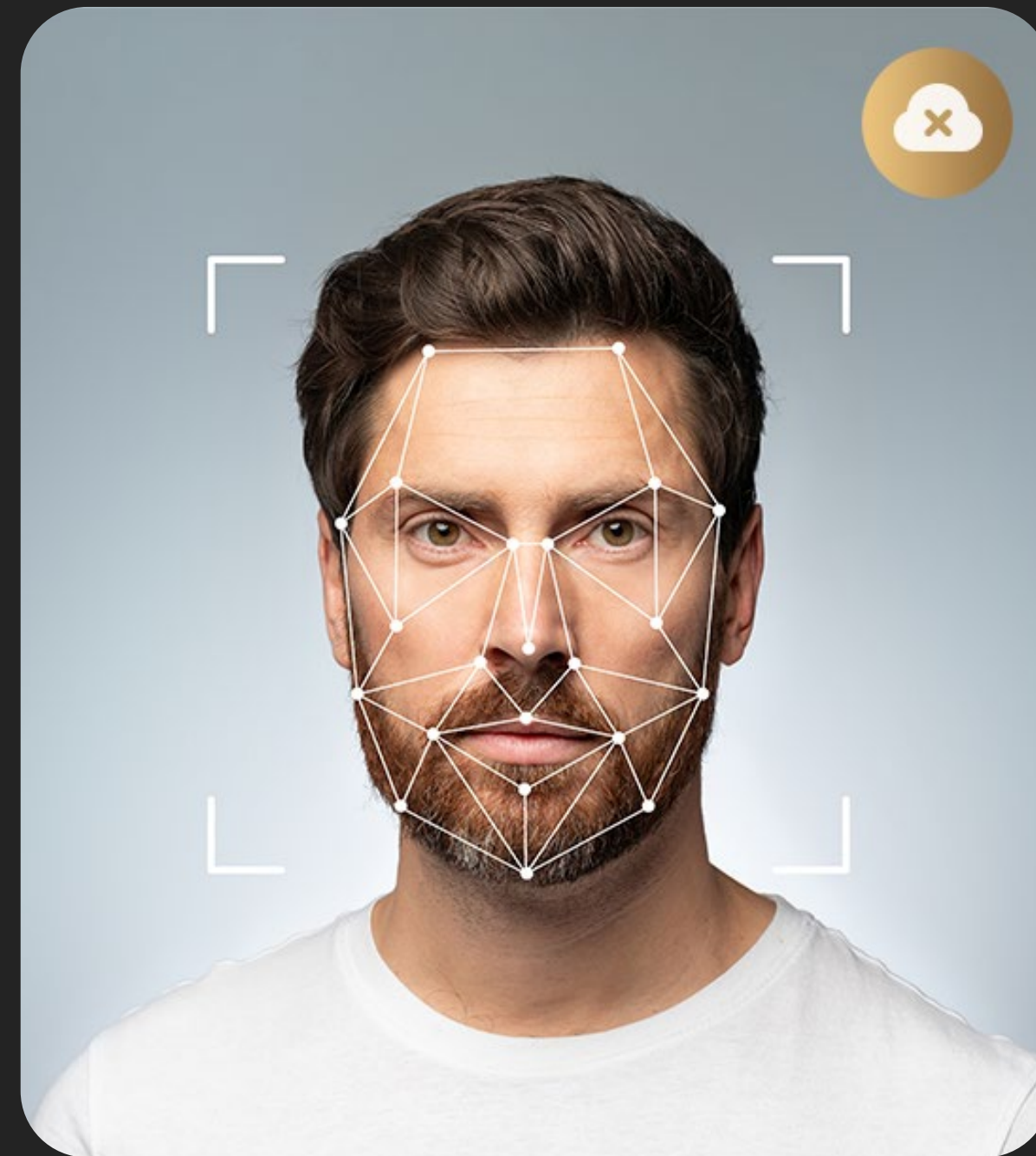
Safe Design Against Peeping & Forced Entry

Protects Against Fake Faces

Built with advanced 3D recognition and local data processing, the DL20F helps block photos, videos, masks, and other spoofing attempts—so only real, trusted users can unlock your door.



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



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

Multiple Ways to Unlock Shares Access Without Worry

From daily family routines to occasional visitors, the DL20F helps you manage access with ease.
Give trusted people a convenient way in, without losing sight of who comes and goes.

For regular visitors



Fingerprints



Bluetooth Keys



Passcodes

Visiting Relatives



Close Friends



Long-Term Nannies



Pet Walkers



For services & deliveries



Temporary
Visitor Codes



App Remote
Unlocking



Proximity
Card

Airbnb Guests or Short-Term Renters



Scheduled Housekeepers



Service Technicians



Package or Grocery Delivery



User-Friendly Design

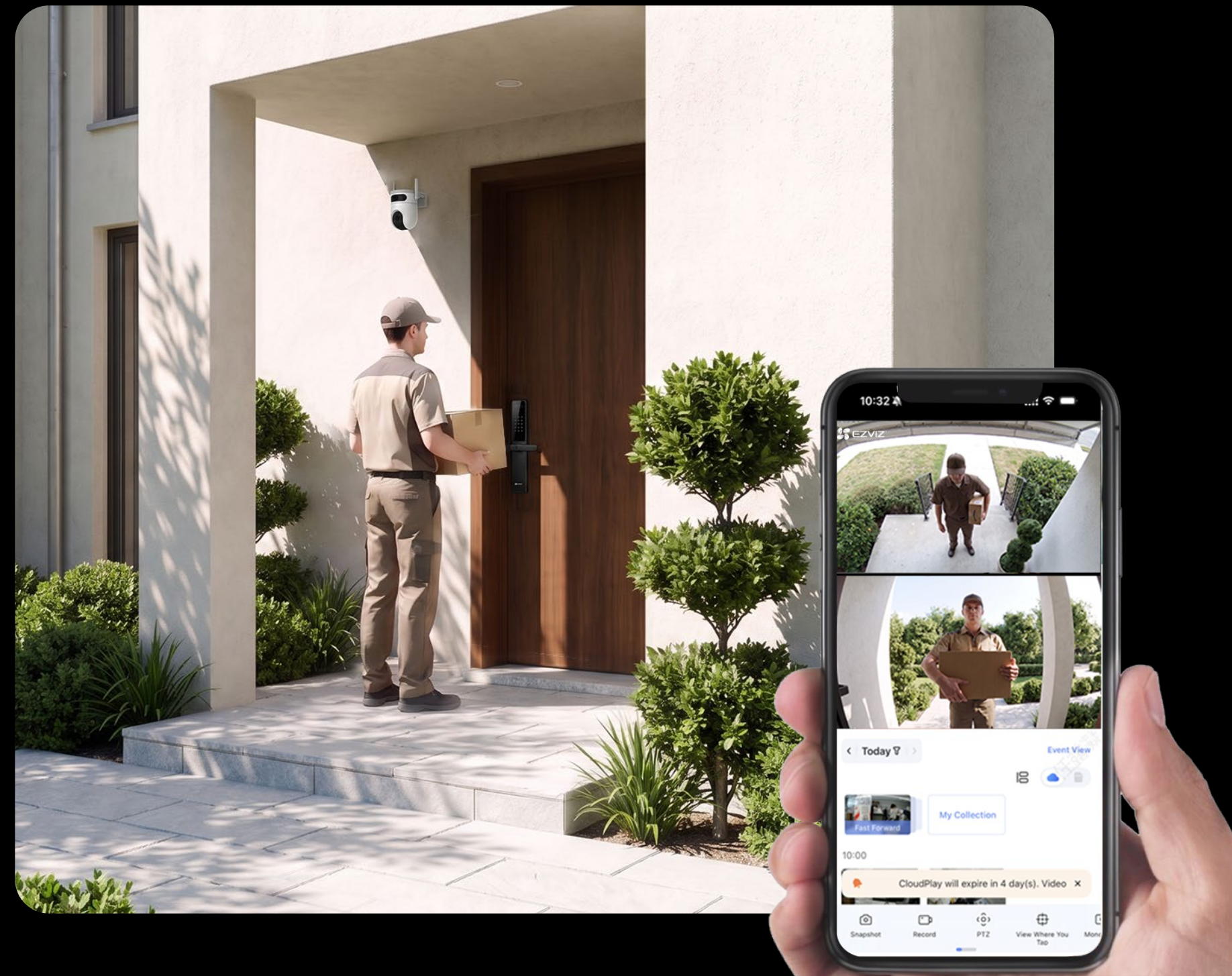
Classic by Design, Connected by EZVIZ

Built around a timeless lever handle, the DL20F keeps the familiar feel of coming home while bringing smarter control to your door. With EZVIZ connectivity, it works seamlessly with your compatible EZVIZ camera, letting you check your doorstep live in the EZVIZ app and enjoy a more connected way to welcome, watch, and manage your home.

Familiar grip, effortless entry



Preview your door before you open it

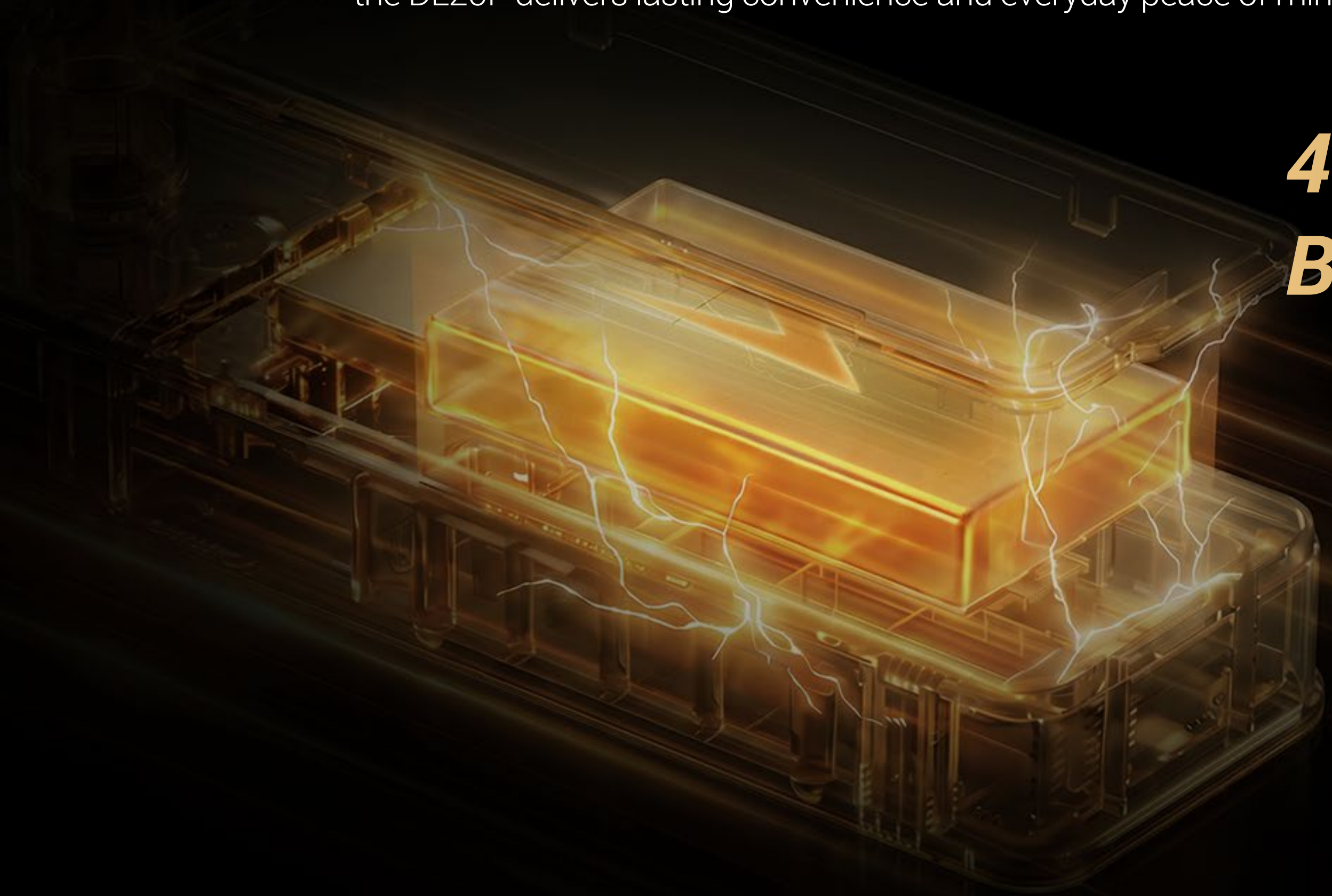


Large-Capacity Rechargeable Lithium Battery

Keeps Your Door Protected Longer

Enjoy up to 4–5 months of reliable use on a single charge. With fewer recharges to worry about, the DL20F delivers lasting convenience and everyday peace of mind.

***4~5 Months'
Battery Life⁶***



Never Be Caught Off Guard

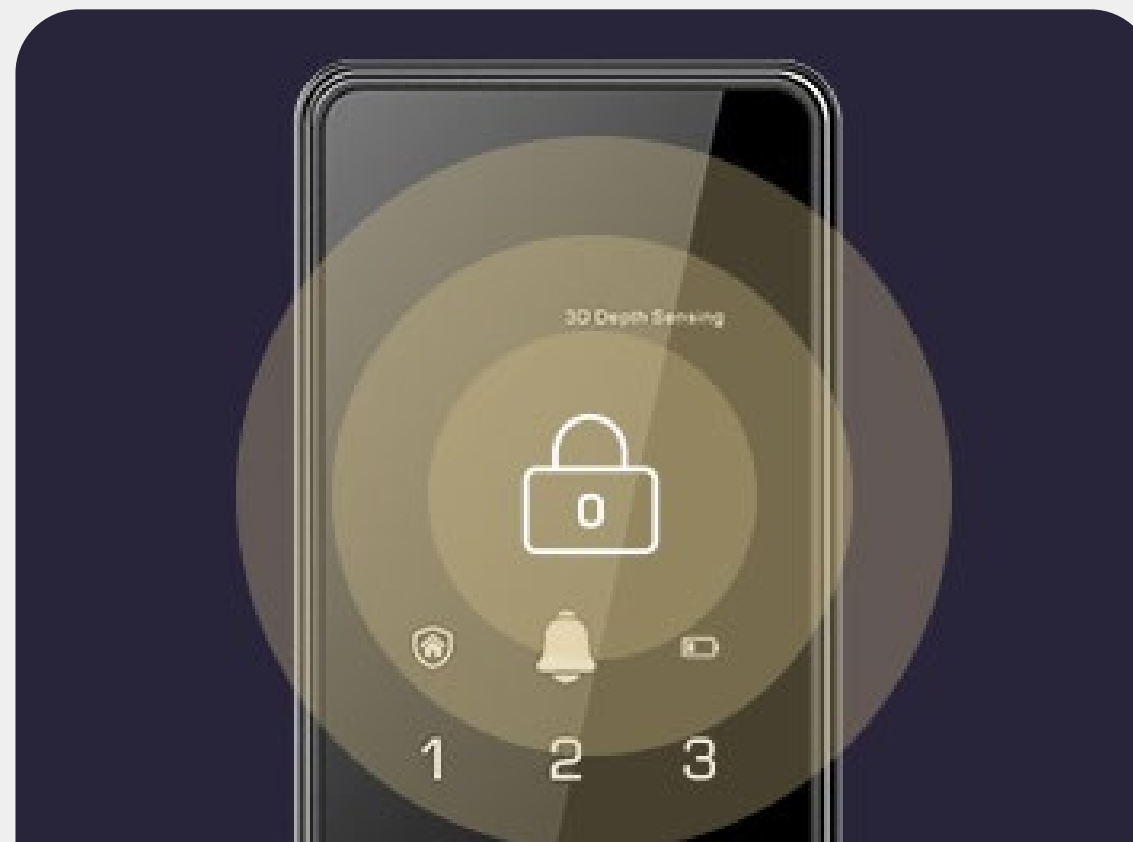
Low-battery alerts remind you before power runs low, helping you recharge in time. And if the battery is ever depleted, the emergency charging port lets you temporarily power the lock with a power bank, so you can still get back inside.



Security You Can Trust in Every Part



Uses C-grade
anti-theft cylinder



Enters the temporary lockout time
after 5 successive failed
attempts in 5 minutes

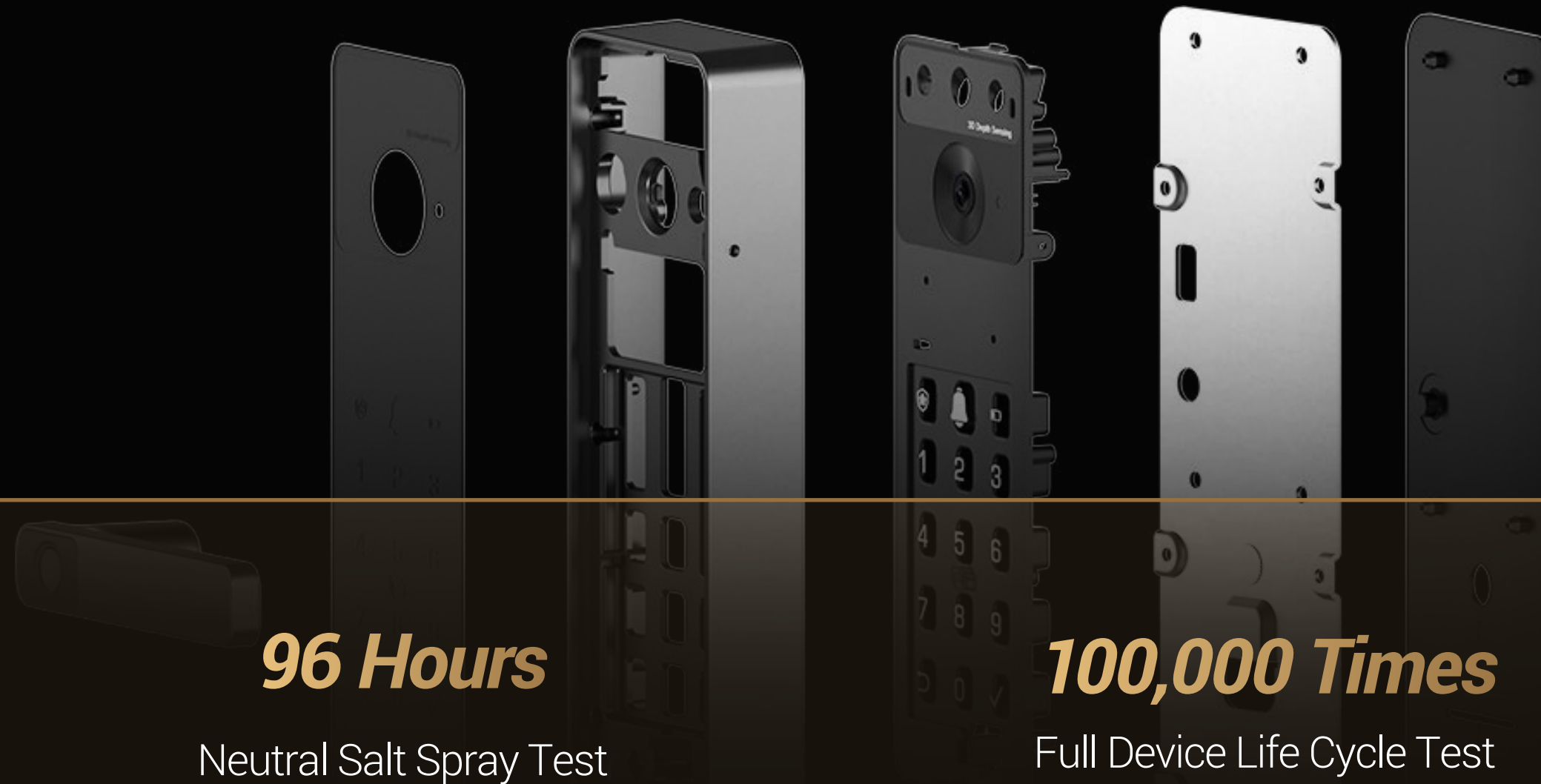


Prevents access
decoding

Sturdy Lock Body

Stands Strong and Protects Always

Designed with the same engineering standards as EZVIZ's flagship models, the DL20F delivers uncompromising quality and reliability. Every lock undergoes rigorous testing for weather resistance, long-term durability, and electrical safety to provide protection you can trust every day.



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

Extra Peace of Mind, All at Your Fingertips

Instant notifications on attempted unlocking



[EZVIZ] DL20F

Someone opens the door (Palm Vein Scan)

now

Low-battery warning



[EZVIZ] DL20F

Low Battery Alarm

now

Anti-tamper alarm



[EZVIZ] DL20F

Tamper Alarm

now

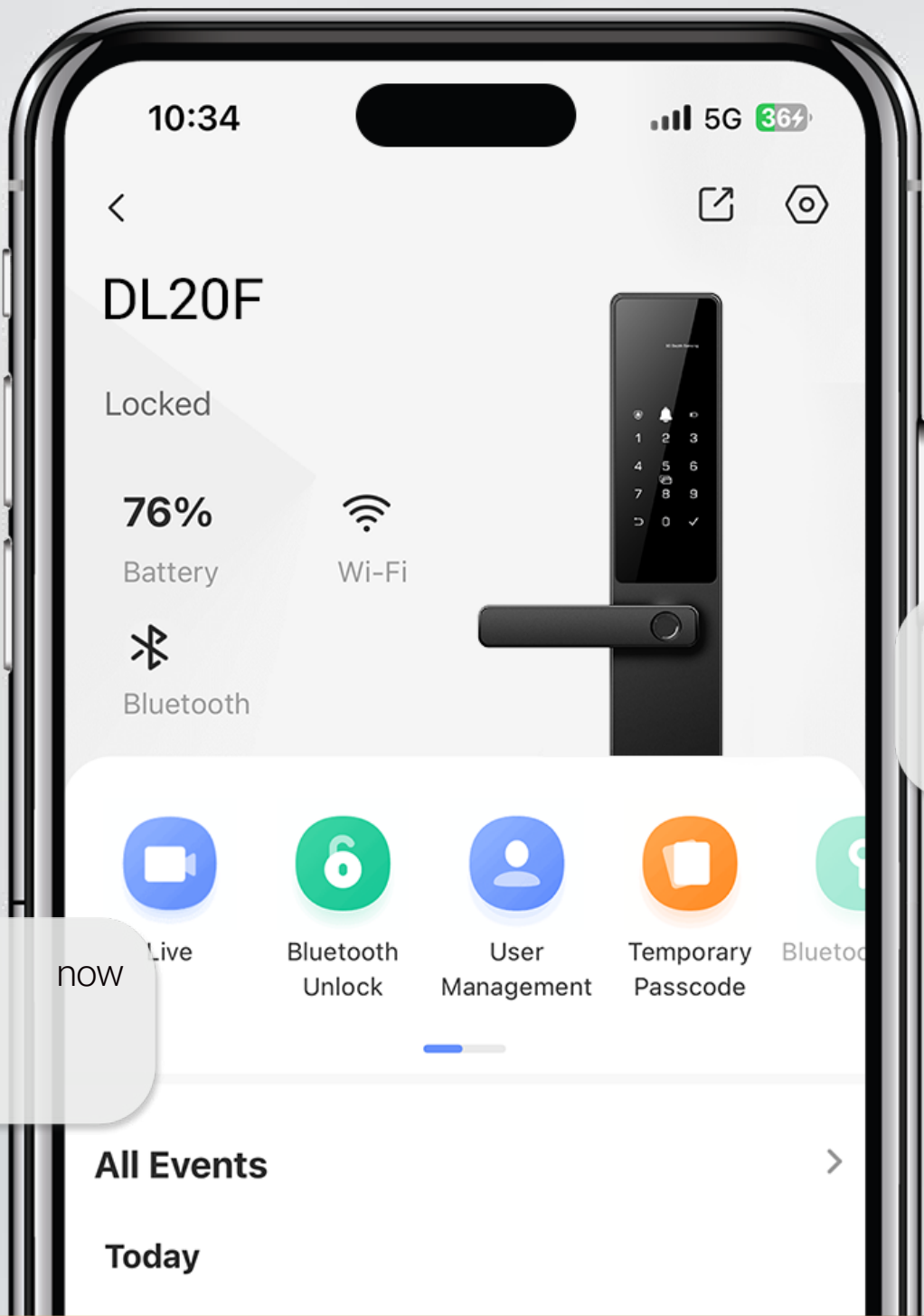
Real-time detection alerts on people who linger



[EZVIZ] DL20F

PIR Alarm

now



Lock status & activity log check

* For illustration purposes only.

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 DL20F 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 When being connected via Bluetooth with the Wi-Fi mode disabled, the lock can run up to 4-5 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-DL20F(WBCP)

Material and Specification			
Panel Material	Aluminum Alloy	Face Recognition	Standing Distance < 1 m, Height Greater than 1.2 m and less than 2 m
Panel Size	Front Panel: 392.6 x 73.6 x 28.3 mm		Recognition speed ≤ 1 s, supports day / night recognition, supports changing hairstyle and wearing glasses
Color	Metallic Black		recognition
Lock Body Type	Mechanical lock body 6068		* EZVIZ laboratory data
Lock Cylinder	C-Level Cylinder	Palm Vein Recognition	The palm is facing the sensor at a distance of 15~25 cm, and the palm can be recognized
Emergency Charging	Type-C		* EZVIZ laboratory data
Working Power	4200mAh Rechargeable Lithium Batteries	Software Function	Anti-Peeping Code / Low battery warning / Privacy Mod / User management / Real time notification / Anti-test locking / Anti-tamper alarm / Remote Control
Technical Specification			
Unlocking Method	Face ID, Palm Vein , Fingerprint, Passcode, Proximity Cards ,Mechanical key, Temporary codes, Remote unlocking	Supported Door Thickness	6068: 40 -120 mm
User Capacity	50 pcs	Working Temperature	-10°C~55°C
Face ID	50 pcs	Operating Humidity	10%~95%
Proximity Cards	50 pcs (sold separately)		
Palm Vein	50 pcs		
Fingerprint Capacity	50 sets		
Passcode Capacity	50 pcs		
Communication Methods	2.4GHz Wi-Fi, Bluetooth		
IP Grade	IP52		

In the box

- Front Panel
- Rear Panel
- Hole Template
- Lock Body
- Standard Screw Bag
- Handing Screw Bag
- Battery
- Key Bag
- Square Rod
- Regulatory Information
- Quick Start Guide

Certifications

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

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