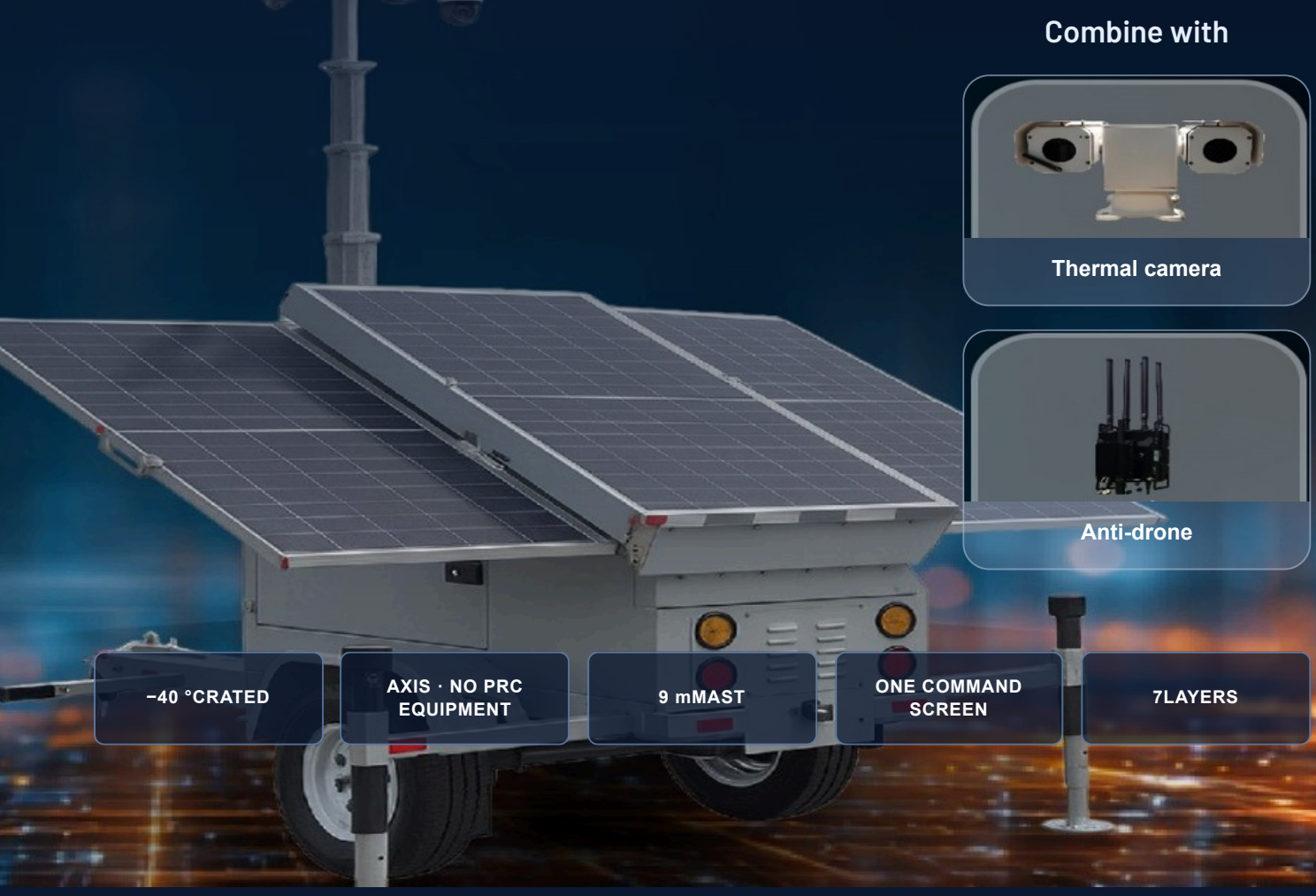
D-FENCE
ELECTRONIC FENCING AND SECURITY SYSTEMS LTD.

CONCEPT · AI-EYE IN THE SKY 6.0

Leapfrog Security

Moving between security circles

Combine with



Thermal camera

Anti-drone

−40 °C RATED

AXIS · NO PRC EQUIPMENT

9 m MAST

ONE COMMAND SCREEN

7 LAYERS

START WITH THE CORE

One circle

ADD CIRCLES UP TO

Full airspace cover

Concept DF-19.11.2026
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The concept

Leapfrog Security · moving between security circles

Effective security is not a single wall but circles within circles. In Leapfrog Security the threat advances circle by circle, and every crossing between circles triggers the next one and hands the target over to it: from the airspace to the asset itself, on the same screen.

Three principles

1

Another circle is more coverage

No blind spots. Each circle covers what the one before it cannot see: darkness, fog, a drone overhead, or an intrusion that has already crossed the line.

2

An orderly hand-over between circles

When a threat crosses a circle, the next layer is already ready: a thermal alert slews the PTZ to the target, and the camera verifies it on video, with no operator having to search.

3

Expand circle by circle

Start with the core and add circles as the threat or the budget justifies, without replacing what is already installed.

Why one circle is not enough

If you only have…	What is missing
A standard camera	In darkness, fog and rain it is nearly blind, and it has no alert for a drone.
Radar only	It detects movement but cannot tell what it is. Video verification is needed before any response.
A sensor fence only	It alerts on a line crossing, but not on what arrives from the air or what happens outside the line.
Separate sensors	Each reports to a different screen. Without one command screen, the decision is delayed at the critical moment.

Description based on the design of AI-EYE IN THE SKY 6.0 – AXIS Arctic Edition.

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Moving between security circles

Five circles · seven layers · one command screen

The circles, from the outside in

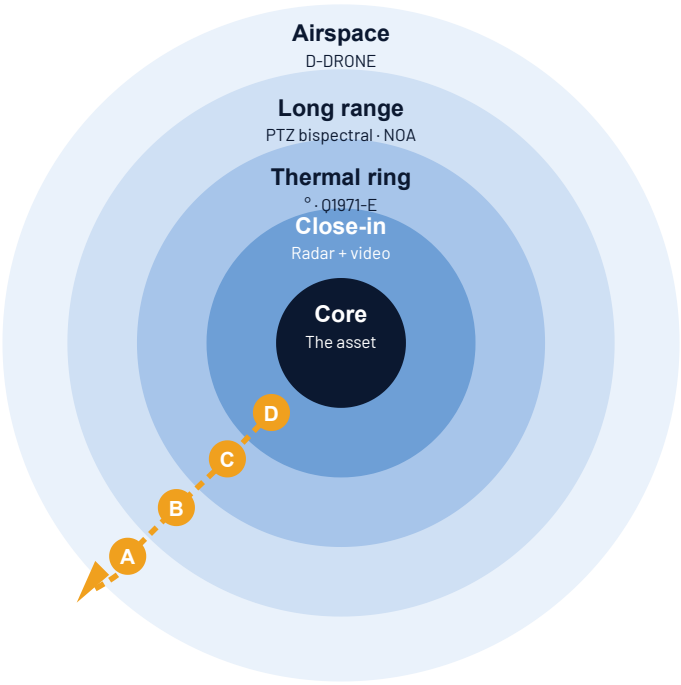
6·7 **Airspace**
D-DRONE: RF, radar, acoustic, Remote ID and EO/IR. Layer 7 adds mitigation and command

4·5 **Long range**
2 × AXIS Q8752-E Mk II bispectral PTZ and the NOA kit

2 **Thermal ring**
4 × AXIS Q1971-E, 360° detection in darkness and fog

3 **Close-in observation**
2 × Q1656-DLE + 2 × D2210-VE, 360° radar

1 **Core**
9 m mast, AXIS cameras, AI analytics, command screen



▲ Threat path, with a hand-over at every ring crossing

A

Airspace to long range

D-DRONE detects a target and hands it to the bispectral PTZ and NOA for verification on video and thermal.

B

Long range to thermal ring

360° thermal detection in darkness and fog, with AI classification of person or vehicle.

C

Thermal ring to close-in

Radar steers the PTZ in automatic tracking up to the fence and the trailer.

D

Close-in to core

Alert to command, loudspeaker and lighting, and in Layer 7, selective soft-kill with operator approval.

The core is a complete system, not "part" of one. A self-contained surveillance trailer with a 9 m mast and solar power, operating in under 10 minutes and for up to 72 hours without a grid connection. Circles 4 to 7 connect to the mast head prepared in Layer 1. The mast-head platform carries a 150 kg payload.

DEPLOYMENT
Up to 10 min
Trailer towed in, mast raised, watching

AUTONOMY
72 hours
Solar-powered, no grid or network needed

CLIMATE
–40 °C
Arctic package, AXIS cameras

The circles represent defence in depth in approximate order of range; exact ranges are set by the specification and the terrain, and the final configuration is confirmed at engineering review.

How many circles to start with

Where to start and where to expand

Path A · two circles

Mobile observation

Layers 1-2

Core and thermal ring. A self-contained observation trailer, suited to a temporary site, an event, or infrastructure that needs eyes fast.

Path B · four circles

Perimeter and range

Layers 1-5

Adds close-in observation with radar, bispectral PTZ and long-range NOA, along a border or facility.

Path C · five circles

Full airspace

Layers 1-7

Adds drone detection, selective mitigation and unified command for especially sensitive sites.

What each path includes

Capability	Path A	Path B	Path C
1 · AI visual observation	●	●	●
2 · 360° thermal detection	●	●	●
3 · Radar + automatic tracking	○	●	●
4 · Bispectral PTZ	○	●	●
5 · NOA observation	○	●	●
6 · Drone detection	○	○	●
7 · Mitigation and command	○	○	●

The paths are starting points, not limits. A circle can be added at any stage and the mix adapted to the site, the threat and the budget. All cameras in Layers 1–7 are AXIS, and no PRC-made or PRC-branded equipment is supplied in any layer or option.

The division into paths is a proposal for scoping the concept; the final mix is defined with the customer after a site survey.

Expansion options

Satellite comms · secure comms and analytics · long-range PTZ · robotics

Four options that add to any path

A Satellite communications

A satellite link for sites without cellular coverage, and a backup for the cellular network.

- Primary or backup channel to the trailer's cellular network (5G / 4G)
- Option for automatic switching between channels
- Deployment in remote areas with no communications infrastructure

B Secure communications and analytics

Encryption and access control for every video and command channel, with advanced analytics.

- End-to-end encryption and VPN for video and command
- Role-based permissions and an action log
- Analytics: anomaly and behaviour detection, person, vehicle and drone classification, and smart video search

C Long-range PTZ camera

A PTZ camera on the mast head, in two range classes, for detecting and identifying distant targets.

10 km · up to

20 km · up to

- Mounted on the mast-head platform, which carries a 150 kg payload
- Integrates with the command screen and the hand-over between circles
- Range depends on target size, atmosphere and the final model

D Robotics and autonomy

The system works with autonomous platforms and manages them from the same screen.

- Autonomous drones that launch toward the target to verify it on video
- Robotic movement on the ground: an unmanned ground vehicle for patrol and inspection
- Connection to a robotic dog for patrol over rough terrain and through narrow passages

The autonomy chain

1

The circles detect a target

Detection across the system's layers, in darkness and fog.

2

An autonomous drone launches

Reaches the target and verifies it on video from the air.

3

A robot is sent to check

A ground vehicle or robotic dog inspects on site.

4

Everything reaches one screen

Video and reports from all platforms, on the same command screen.

The options are defined at concept level. The 10 and 20 km ranges are design targets; the long-range camera supplier will be approved in advance and in any case will not be PRC-made or PRC-branded equipment. Satellite communications, spectrum, and the use of drones and robots are subject to approvals according to the site and the authorities.

Why D-Fence

International experience · next steps

58 countries | **18 government projects** | **30+ years in the field** | **6,500+ km protected** | **–40 °C rated, AXIS**

What stands behind the concept

International experience	D-Fence designs and manufactures perimeter intrusion detection systems and the layers around them. Governments, armed forces, airports and critical-infrastructure operators in 58 countries rely on our systems. The company is ISO 9001:2015 certified.
AXIS and no PRC equipment	All cameras in Layers 1–7 are AXIS, and no PRC-made or PRC-branded equipment is supplied in any layer or option.
Rated for –40 °C	An Arctic package protects the power, batteries and electronics, so the system operates in extreme cold.
Ready to deploy	A trailer with a 9 m telescopic mast, operating in under 10 minutes, with 72 hours of solar autonomy and no grid connection.
One system	D-Fence products, from cameras to drone detection and mitigation, connected to one command screen.

Next steps

1
Introduction and threat definition
What is being protected, from what, and in which terrain and climate.

2
Site survey
Reviewing the terrain, lines of sight, power and network.

3
Choosing a path and circles
Building the mix and the order in which circles are added.

4
Proposal and deployment
A detailed price proposal, delivery and commissioning.

We would be pleased to meet, survey your site and tailor Leapfrog Security to your needs.

Company figures as published by D-Fence at www.d-fence.com. System figures are design values.