NOTOXYTECH

PRODUCT PORTFOLIO

Indigenous Tactical UAS Solutions



Eight mission-ready platforms — from 3.5" cinewhoops and 24" ISR multirotors to a 2-metre fixed-wing VTOL — designed and built in India.

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THE RANGE

Eight platforms, one mission focus



Cinewhoop 3.5"

Analog / digital FPV camera

25 min · 5 km



FPV Shakti 10"

Dual analog FPV camera

40 min · 10 km



10" Day Surveillance

4K gimbal, 30× zoom

30 min · 5 km



10" Day & Night Surveillance

Dual-sensor (visible + thermal)

30 min · 5 km



FPV Shakti 15"

Dual analog FPV camera

40 min · 10 km



Shivnetra 18"

Tri-sensor (EO / IR / LRF)

60 min · 15 km



Shivnetra 2.0 · 24"

Tri-sensor (EO / IR / LRF)

60 min · 20 km



Pinak-X VTOL

Tri-sensor (EO / IR / LRF)

120 min · 30 km

AT A GLANCE

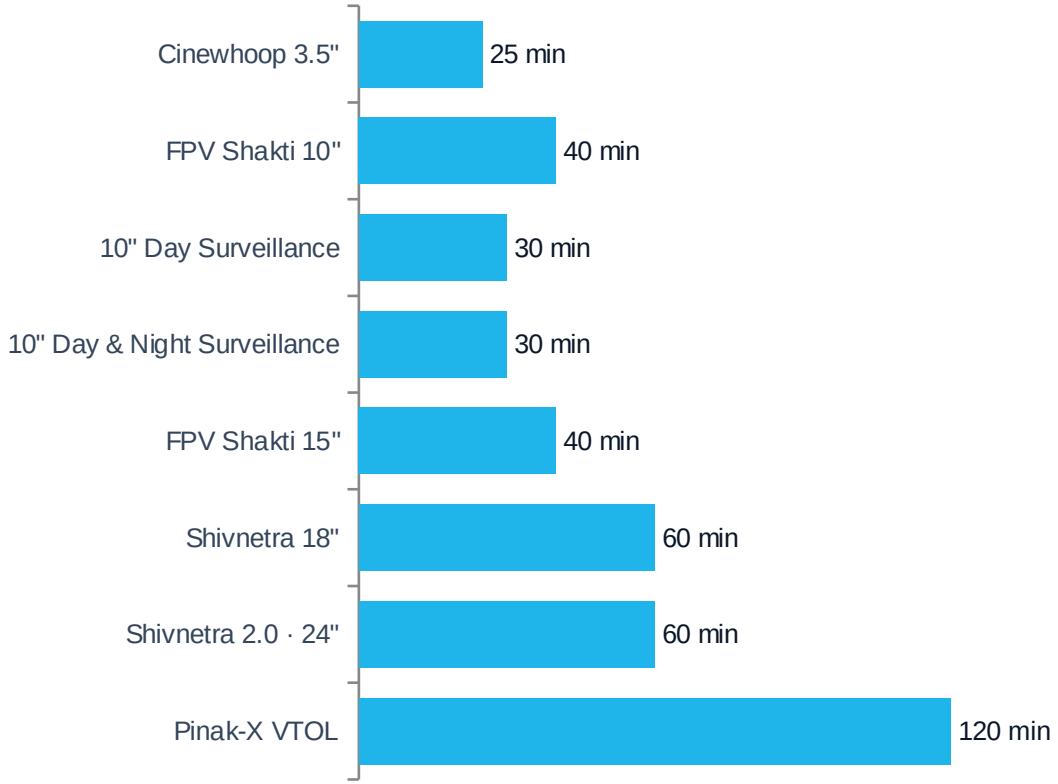
Model comparison

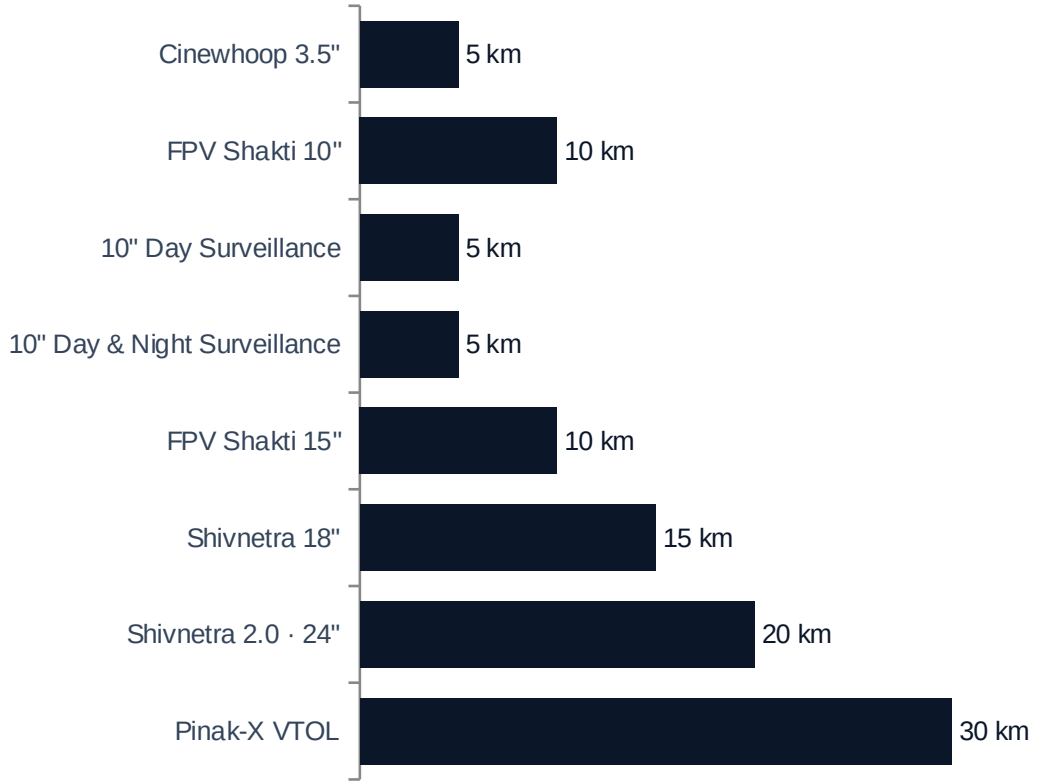
Model	Flight time	Range	Speed (cruise / max)	Camera payload	Battery
Cinewhoop 3.5"	Up to 25 min	Up to 5 km	45 – 60 km/h / 100 km/h	Analog / digital FPV camera	4S 2,800 mAh Li-ion
FPV Shakti 10"	Up to 40 min	Up to 10 km	60 km/h / 120 km/h	Dual analog FPV camera	6S 10,000 mAh Li-ion
10" Day Surveillance	Up to 30 min	Up to 5 km	60 km/h / 120 km/h	4K gimbal, 30× zoom	6S 10,000 mAh Li-ion
10" Day & Night Surveillance	Up to 30 min	Up to 5 km	60 km/h / 120 km/h	Dual-sensor (visible + thermal)	6S 10,000 mAh Li-ion
FPV Shakti 15"	Up to 40 min	Up to 10 km	60 km/h / 120 km/h	Dual analog FPV camera	8S4P 20,000 mAh
Shivnetra 18"	Up to 60 min	Up to 15 km	60 km/h / 90 km/h	Tri-sensor (EO / IR / LRF)	6S 10,000 mAh Li-ion
Shivnetra 2.0 · 24"	Up to 60 min	Up to 20 km	30 – 45 km/h / 60 km/h	Tri-sensor (EO / IR / LRF)	12S 20,000 mAh Li-ion
Pinak-X VTOL	Up to 120 min	Up to 30 km	45 – 65 km/h cruise	Tri-sensor (EO / IR / LRF)	10,000 mAh Li-ion

Flight time and range depend on payload, mission profile, terrain, weather and RF environment. Range is line of sight; maximum altitude 500 m AGL for multirotors.

PERFORMANCE

Endurance and reach across the range





TACTICAL CINEWHOOP · 3.5-INCH CLASS

Cinewhoop 3.5"

A ducted, collision-resilient 3.5-inch platform that bridges precise indoor flying and powerful outdoor performance.



25 min
FLIGHT TIME

5 km
RANGE

100 km/h
MAX SPEED

4S 2.8Ah
LI-ION PACK

NOTOXYTECH TECHNOLOGIES PVT LTD

SPECIFICATIONS

Flight Time	Up to 20 – 25 min
Range	One-way deployment – up to 5 km.
Payload Capacity	Optional
Speed	Cruise 45 – 60 km/h · Max burst / dive 100 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure with propeller guard
Video Transmission (VTX)	Analog / Digital
Battery	4S 2,800 mAh Molicel Li-ion
Navigation Modes	Position Hold – GPS-assisted loitering · Manual / Angle / Acro mode · RTH – Return to Home · Configurable to user specifications

FPV SHAKTI · 10-INCH ANALOG

FPV Shakti 10"

Swift and agile as a hawk — Shakti represents speed, accuracy and dominance in the skies, built for precision missions.



40 min
FLIGHT TIME

10 km
RANGE

120 km/h
MAX SPEED

1.5 kg
PAYLOAD

NOTOXYTECH TECHNOLOGIES PVT LTD

SPECIFICATIONS

Flight Time	Up to 40 min (without payload) · up to 25 min (with full payload, depending on mission profile)
Range	One-way deployment – up to 10 km. · Two-way deployment – up to 5 km for reconnaissance, surveillance and payload delivery with safe return.
Payload Capacity	Up to 1.5 kg (optional; can impact endurance). Maximum 2 kg, 1 kg recommended.
Speed	Cruise 60 km/h · Max burst / dive 120 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure
Video Transmission	Dual analog FPV camera (low latency, long range)
VTX	2.5 W / 3 W / 5 W video transmission module, 5.8 GHz
Battery	6S 10,000 mAh Molicel Li-ion (40 min endurance) · 6S 15,000 mAh Molicel Li-ion (45 min endurance)
Navigation Modes	Loiter – GPS-assisted loitering · Manual / Angle mode · RTH – Return to Home · Configurable to user specifications
Misc. Features	Live telemetry and mission planning via laptop

DAY SURVEILLANCE · 10-INCH CLASS

10" Day Surveillance

A 10-inch, hand-launchable ISR platform with a stabilised 4K gimbal camera and 30× zoom — fast, agile and mission-ready in seconds.



30 min
FLIGHT TIME

5 km
RANGE

120 km/h
MAX SPEED

4K 30×
ZOOM CAMERA

SPECIFICATIONS

Flight Time	Up to 30 min (with full payload, depending on mission profile)
Range	One-way deployment – up to 5 km.
Payload Capacity	Optional
Speed	Cruise 60 km/h · Max burst / dive 120 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure
Video Transmission (VTX)	Digital
Battery	6S 10,000 mAh Molicel Li-ion (30 min endurance) · 6S 15,000 mAh Molicel Li-ion (45 min endurance)
Navigation Modes	Loiter – GPS-assisted loitering · Manual / Angle mode · RTH – Return to Home · Configurable to user specifications
Misc. Features	Live telemetry and mission planning via laptop

DAY & NIGHT SURVEILLANCE · 10-INCH CLASS

10" Day & Night Surveillance

A 10-inch, hand-launchable ISR platform with a dual-sensor gimbal — visible and thermal imaging for day-and-night situational awareness.



30 min
FLIGHT TIME

5 km
RANGE

120 km/h
MAX SPEED

384 ×288
THERMAL

SPECIFICATIONS

Flight Time	Up to 30 min (with full payload, depending on mission profile)
Range	One-way deployment – up to 5 km.
Payload Capacity	Optional
Speed	Cruise 60 km/h · Max burst / dive 120 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure
Video Transmission (VTX)	Digital
Battery	6S 10,000 mAh Molicel Li-ion (30 min endurance) · 6S 15,000 mAh Molicel Li-ion (45 min endurance)
Navigation Modes	Loiter – GPS-assisted loitering · Manual / Angle mode · RTH – Return to Home · Configurable to user specifications
Misc. Features	Live telemetry and mission planning via laptop

FPV SHAKTI · 15-INCH HEAVY-LIFT

FPV Shakti 15"

A 15-inch analog FPV platform built to carry up to 5 kg — fast, rugged and easy to deploy for logistics, resupply and payload delivery.



40 min
FLIGHT TIME

10 km
RANGE

120 km/h
MAX SPEED

5 kg
PAYLOAD LIFT

SPECIFICATIONS

Flight Time	Up to 40 min (without payload) · up to 25 min (with full payload, depending on mission profile)
Range	One-way deployment – up to 10 km. · Two-way deployment – up to 5 km for reconnaissance, surveillance and payload delivery with safe return.
Payload Capacity	Up to 5 kg lifting capacity for logistics, resupply and payload delivery (heavier loads reduce endurance)
Speed	Cruise 60 km/h · Max burst / dive 120 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure
Video Transmission	Dual analog FPV camera (low latency, long range)
VTX	2.5 W / 3 W / 5 W video transmission module, 5.8 GHz
Battery	8S4P 20,000 mAh (approx. endurance up to 40–50 min)
Navigation Modes	Loiter – GPS-assisted loitering · Manual / Angle mode · RTH – Return to Home · Configurable to user specifications
Misc. Features	Live telemetry and mission planning via laptop

FPV goggles, ground monitor & field



FPV Video Goggles

Immersive, low-latency 5.8 GHz view for the pilot, with diversity antennas for a stable picture at long range.

Frequency	5.8 GHz analog video
Antennas	14 dBi patch + omni (diversity)
Battery	Built-in 7.4 V / 2,000 mAh
Weight	393 g (without antennas)
Dimensions	18 × 14 × 8.4 cm



Ground Monitor

Hooded 5.8 GHz monitor with patch and omni antennas, so the commander, observer or logistics team can watch the same live feed as the pilot.

Shared live view · Sun hood for daylight use







TACTICAL ISR · 18-INCH · TRI-SENSOR

Shivnetra 18"

An 18-inch tactical ISR and heavy-lift platform carrying a tri-sensor gimbal — 2K visible, 640 × 512 thermal and 1 km laser ranging in one stabilised payload.



60 min
FLIGHT TIME

15 km
RANGE

640 ×512
THERMAL

1 km
LASER RANGING

NOTOXYTECH TECHNOLOGIES PVT LTD

SPECIFICATIONS

Flight Time	Up to 60 min (with full payload, depending on mission profile)
Range	One-way deployment – up to 15 km.
Payload Capacity	Optional
Camera Payload	Tri-sensor 3-axis gimbal – 5 MP visible (30× zoom), 640 × 512 thermal, 905 nm laser rangefinder (1 km)
Speed	Cruise 60 km/h · Max burst / dive 90 km/h
Navigation & Control	GPS navigation with failsafe
Airframe & Build	Composite lightweight carbon-fibre structure
Video Transmission (VTX)	Digital
Battery	6S 10,000 mAh Molicel Li-ion (30 min endurance) · 6S 15,000 mAh Molicel Li-ion (60 min endurance)
Navigation Modes	Loiter – GPS-assisted loitering · Manual / Angle mode · RTH – Return to Home · Configurable to user specifications
Misc. Features	Live telemetry and mission planning via laptop

TACTICAL ISR · 24-INCH CLASS

Shivnetra 2.0 · 24"

A 24-inch tactical ISR platform dedicating its entire capacity to high-endurance loitering and precision target acquisition — with EO/IR and laser rangefinding.



60 min
FLIGHT TIME

20 km
RANGE

1 km
LRF RANGE

IP54
WEATHER RATED

NOTOXYTECH TECHNOLOGIES PVT LTD

SPECIFICATIONS

Purpose	Persistent surveillance, target acquisition and mission planning
Flight Time	Up to 45 – 60 min (with full ISR/LRF payload, depending on mission profile and wind)
Range	Tactical deployment – up to 15 – 20 km.
Payload Capacity	Up to 1 kg – engineered for multi-sensor optical gimbals and laser rangefinders
Speed	Cruise 30 – 45 km/h · Max dash 60 km/h
Navigation & Control	Dual-redundant GNSS/GPS with autonomous failsafe and anti-jamming capability
Airframe & Build	Aerospace-grade heavy-duty carbon-fibre composite, high rigidity and vibration dampening
Video Transmission	High-power digital – secure encrypted datalink for long-range video and telemetry
Battery	12S 20,000 mAh high-density Li-ion (45 – 60 min endurance)
Navigation Modes	Loiter – GPS/GNSS-assisted (LRF stability) · Auto – waypoint-driven autonomous flight · Manual / Angle mode · RTH – Return to Home · Parameters and failsafes tunable to user specifications
Misc. Features	Live telemetry, dynamic LRF target-coordinate mapping and autonomous mission planning via GCS laptop

FIXED-WING VTOL · LONG-ENDURANCE ISR

Pinak-X VTOL

A 2-metre quadplane that takes off and lands like a multirotor and cruises like an aircraft — equipped with the tri-sensor gimbal and smart ground controller for long-endurance day-and-night surveillance.



2.0 m
WINGSPAN

120 min
FLIGHT TIME

30 km
CONTROL LINK

640 ×512
THERMAL

NOTOXYTECH TECHNOLOGIES PVT LTD

SPECIFICATIONS

Configuration	Quadplane VTOL (4 lift motors + forward-flight motor), A-tail
Wingspan	2,021 mm
Max take-off weight	6 kg (recommended maximum)
Max VTOL propeller	12 inch
Construction	Lightweight rigid airframe, carbon-fibre booms; wings, booms and A-tail removable
Cruise speed	45 – 65 km/h
Endurance	2 hours (120 minutes) on 10,000 mAh Li-ion, with 20% charge kept for VTOL landing
Operational range	Up to 30 km live video and control (radio link, ground-to-air, line of sight)
Take-off / landing	Vertical (VTOL) — no runway or launcher required
Camera payload	Tri-sensor 3-axis gimbal — 5 MP visible (30× digital zoom), 640 × 512 thermal, 905 nm laser rangefinder (5 m – 1 km)
Ground controller	7" 1920 × 1080 touch screen, Android 13, 16 channels
Datalink	Dual-band 2.4 / 5.8 GHz digital, automatic frequency hopping
Flight control	Flight controller, flight modes and failsafes configured to user specification

CAMERA PAYLOAD

4K Gimbal Camera



Stabilised 8 MP gimbal camera with 30× zoom, 4K on-board recording and low-latency H.265 RTSP streaming.

FITTED TO

10" Day Surveillance

GIMBAL & INTERFACE	
Video output interface	LAN port
Control input interface	LAN port
Working voltage	12 V – 80 V
Working current	245 mA @ 12 V
Working temperature	−10 °C to +55 °C
Weight (incl. shock-absorber plate)	106 g
Size (incl. shock-absorber plate)	61.6 × 63.8 × 84.2 mm
Controllable angle	Pitch −90° to +10° · Yaw −90° to +90°
Hoist / upside-down mode	Supported
One-click back / down / head-up	Supported

IMAGING & RECORDING	
Lens resolution	8 MP
Sensor size	1/2.8"
Aperture	F2.0
Focal length	3.1 mm
HFOV / VFOV / DFOV	105° / 58° / 122°
Zoom	30×
Output	RTSP stream, H.265
Transmission resolution	1280 × 720
Recorded video	3840 × 2160 @ 30 fps
Video format	TS
Photo resolution	3840 × 2160
Photo format	JPG
Memory card	Kingston 32 GB
File system	FAT32

CAMERA PAYLOAD

Dual-Sensor Gimbal



Three-axis gimbal carrying a 5 MP visible-light camera and a 384 × 288 uncooled thermal imager.

FITTED TO

10" Day & Night Surveillance

GIMBAL	
Video output interface	LAN port
Control input interface	LAN port
Working voltage	7.2 V – 72 V
Working current	210 mA
Working temperature	−10 °C to +50 °C
Weight (incl. shock-absorber plate)	117 g
Size (incl. shock-absorber plate)	62 × 65 × 86 mm
Controllable angle	Pitch −90° to +10° · Yaw −90° to +90° · Roll −45° to +45°
Hoist / upside-down mode	Supported
One-click back / down / head-up	Supported

VISIBLE-LIGHT CAMERA	
Lens resolution	5 MP
Focal length	3.5 – 4.75 mm
Aperture	F2.0
HFOV / VFOV / DFOV	100° / 52° / 122°
Zoom	4× electronic
Transmission resolution	1280 × 720
Video recording	2560 × 1440
Video format	MP4
Photo resolution	2560 × 1440
Photo format	JPEG
Storage	Micro SD, up to 256 GB
File system	FAT32

THERMAL IMAGING CAMERA	
Resolution	384 × 288
Frame rate	≤ 25 Hz
Thermal time constant	< 10 ms
Focal length	7 mm
Aperture	F1.0
FOV	24.8° × 18.7°
Pixel pitch	12 µm
Spectral range	8 – 14 µm

CAMERA PAYLOAD

Tri-Sensor Gimbal



A compact three-light gimbal integrating a 5 MP 2K visible camera, a 640 × 512 thermal imager and a 905 nm laser rangefinder on an industrial-grade 3-axis stabilised mount.

FITTED TO

Shivnetra 18" · Shivnetra 2.0 24"

GIMBAL – PHYSICAL & GENERAL	
Gimbal type	3-axis stabilised (pitch, yaw, roll)
Dimensions	59 × 61 × 92 mm
Weight	176 g
Operating voltage	7.2 V – 72 V
Operating current	334 mA @ 12 V
Operating temperature	−10 °C to +50 °C
Interfaces	Ethernet / LAN (RTSP output)

VISIBLE-LIGHT CAMERA	
Resolution	5 MP, 1/2.7" CMOS
Video recording	2880 × 1620 @ 30 fps (H.265, 8 Mbps)
Real-time stream	1280 × 720 (H.265, 2 Mbps)
Zoom	30× digital / electronic
Focal length / aperture	3.5 mm / F2.2
FOV	83.4°

THERMAL IMAGING SENSOR	
Resolution	640 × 512
Response band	8 – 14 µm
Focal length / aperture	9.1 mm / F1.0
FOV	48.7° × 38.6°
Palettes	White-hot / black-hot + 12 pseudo-colours
Detection distance	Up to 1.1 km

LASER RANGEFINDER (LRF)	
Wavelength	905 nm
Measurement range	5 m – 1,000 m
Precision	±1 m
Measurement frequency	1 – 5 Hz

GROUND CONTROL

Smart Controller

All-in-one ground station with a built-in 7-inch display, Android computer and long-range digital link — flies the aircraft, steers the gimbal and shows live HD video and telemetry.

7"
1920 × 1080 touch screen

6 nm
Qualcomm 8-core · Android 13

30 km
Video & control range (LOS)

6–8 h
20,000 mAh battery

FITTED TO
Shivnetra 2.0 · 24"

Dual-band 2.4 / 5.8 GHz with frequency hopping · H.264 / H.265 & 4K decoding · 4G SIM slot · Wi-Fi / Ethernet video sharing · SDK

REMOTE CONTROLLER	
Display	7" industrial touch screen, 1920 × 1080
Processor	Qualcomm 6 nm, 8-core
Operating system	Android 13 (64-bit)
Memory / storage	8 GB RAM / 128 GB
Frequency band	2.4 GHz / 5.8 GHz
Channels	16
Frequency hopping	Automatic
RF power	< 23 dBm (CE / FCC)
Control distance	5 – 30 km (ground-to-air, visual)
Battery / endurance	20,000 mAh / 6 – 8 hours
Charging	Type-C, approx. 3 – 4 hours
Interfaces	USB, SIM-card slot, Type-C
Size / weight	277 × 138 × 96 mm / 1.2 kg
Operating temp.	−10 °C to +55 °C

RECEIVER (AIR UNIT)	
Frequency band	2.4 GHz / 5.8 GHz
Supply voltage	7.2 – 72 V (XT30)
Operating current	12 V / 300 mA
Air data rate	200 Kbps – 160 Mbps
Channel bandwidth	1.25 – 40 MHz
Serial baud rate	57600 / 115200 / 921600
Interfaces	1 × data, 1 × Ethernet, 1 × SBUS, 3 × PWM
RF power	< 23 dBm (CE / FCC)
Dimensions	45.5 × 60 × 21.5 mm
Weight	37 g
Operating temp.	−10 °C to +60 °C

NOTOXYTECH

Ready when the mission is.

Talk to our team about demonstrations, configurations and field trials.

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