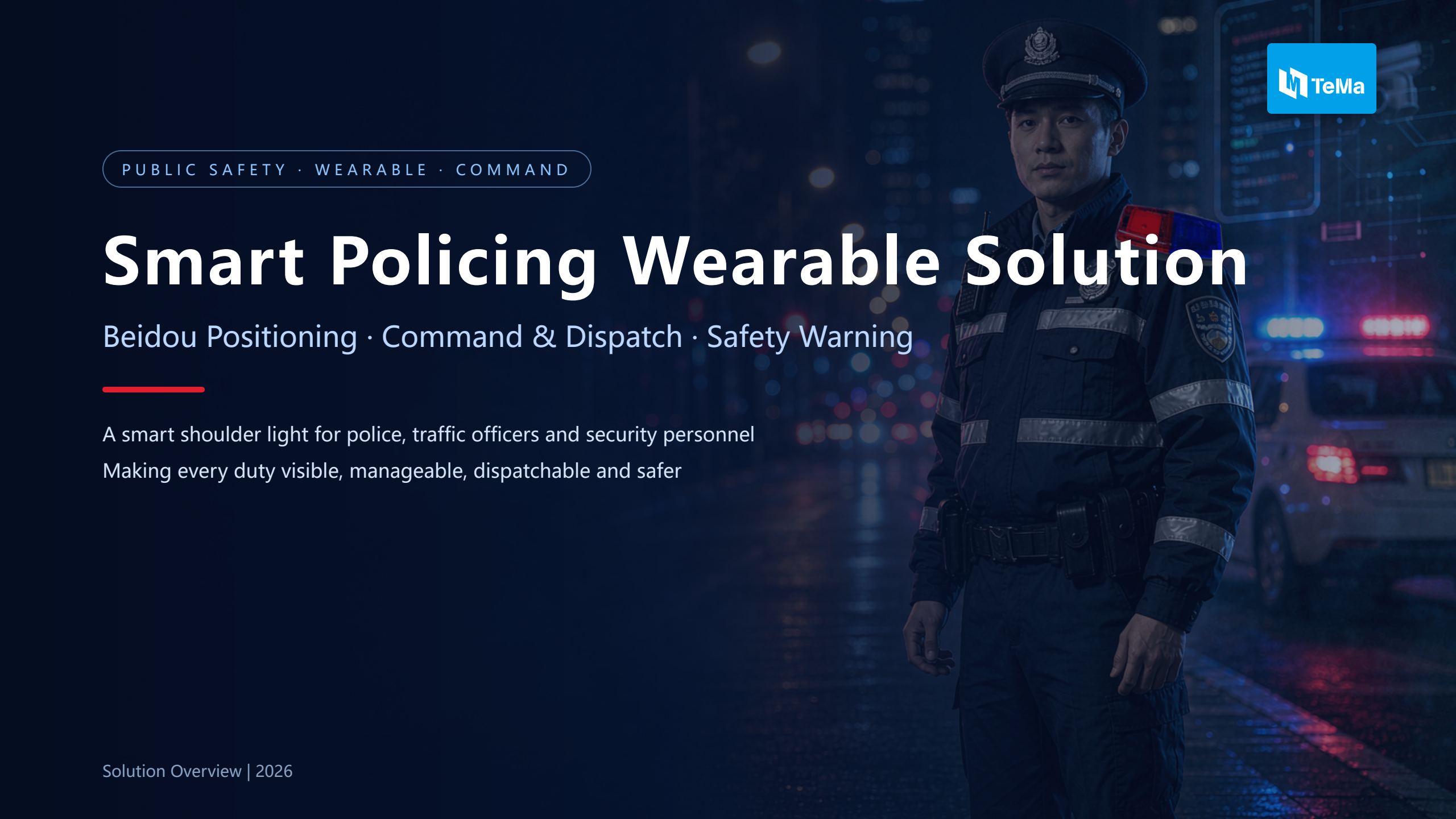
PUBLIC SAFETY · WEARABLE · COMMAND

Smart Policing Wearable Solution

Beidou Positioning · Command & Dispatch · Safety Warning

A smart shoulder light for police, traffic officers and security personnel

Making every duty visible, manageable, dispatchable and safer



Solution Overview | 2026

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Solution Overview

SOLUTION OVERVIEW

A wearable solution built for frontline law enforcement: it brings officer locations, duty status and emergency alerts onto one command platform, turning every officer into a visible, dispatchable and connected sensing node.

Shoulder Light

Beidou positioning / strobe
One-touch SOS / emergency light

→

Connectivity

4G Cat.1
Standard protocol reporting

→

Command Platform

Positioning / dispatch
Attendance / alerts / dashboard

→

Applications

Patrol / emergency response
Security command & review

Visible
Real-time force distribution

Dispatchable
One-touch orders to officers

Protected
Instant SOS & strobe warning

Traceable
Attendance & track records

Mission Needs

MISSION NEEDS

Frontline Challenges

- Officers spread across roads and scenes; positions and status are hard to track in real time
- Rapid assembly is needed in incidents, without an efficient nearby-dispatch mechanism
- Night / low-light duties limit visibility and personal safety
- Emergency calls rely on radio or phone: slow and prone to error

Command Challenges

- Multi-unit, multi-area coordination lacks a unified visual command view
- Orders pass through many layers and cannot reach each officer quickly
- Attendance and tracks lack objective data, making review difficult
- Large-event security is scattered, with little data to guide deployment

Goal: every officer locatable, command dispatchable, scene warnable, duty traceable.

Overall Architecture

END-TO-END ARCHITECTURE

Application	Patrol Duty	Emergency Response	Event Security	Command Dashboard	
Platform	Positioning	Dispatch	TTS Voice	Attendance / Alerts	Track / Fence
Connectivity	4G Cat.1	Standard Protocol	Live / Sleep Reporting		
Terminal	TM922B Light	Beidou Positioning	Red-Blue Strobe	Emergency Light	SOS Alert

A decoupled terminal–connectivity–platform–application architecture, configurable on demand and ready to scale with command needs.

Platform Capabilities

PLATFORM CAPABILITIES

Officer

- Real-time Positioning
- Multi-mode Positioning
- Online Status
- Vibration Wake
- Remote Upgrade

Command

- Force Distribution
- Nearby Dispatch
- TTS Broadcast
- Group Management
- Command Dashboard

Safety

- SOS Alert
- Red-Blue Strobe
- Emergency Light
- Low-Battery Alert
- Waterproof

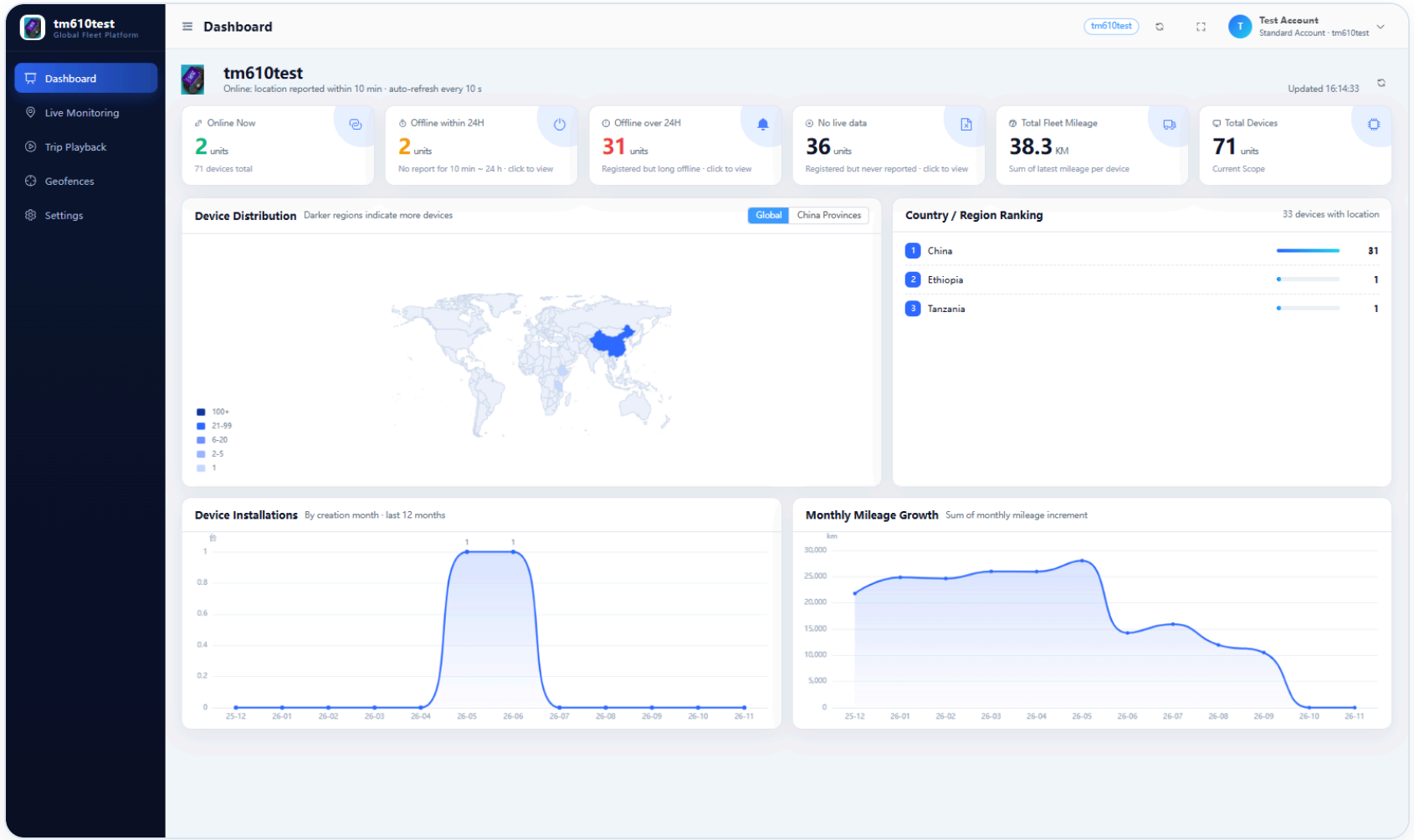
Duty

- Attendance
- Track Playback
- Geofence
- Statistics
- Incident Review

The platform is organised around “Officer – Command – Safety – Duty”, covering frontline enforcement and command dispatch.

Command Dashboard

COMMAND DASHBOARD

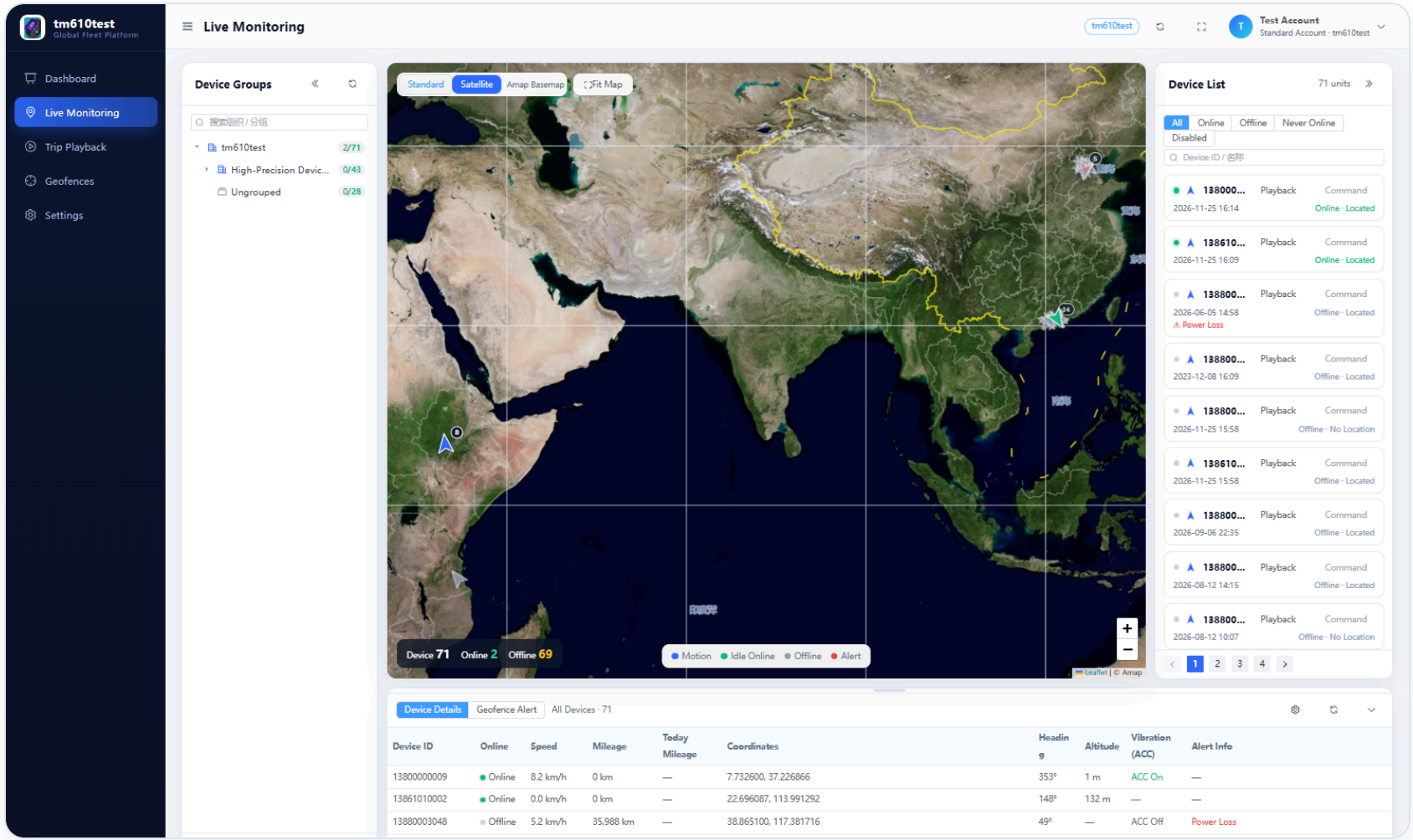


Key Points

- Online / offline officer counts, clear availability at a glance
- Geographic distribution and area ranking, multi-level views
- Growth and activity trends to support force planning

Live Monitoring

LIVE MONITORING

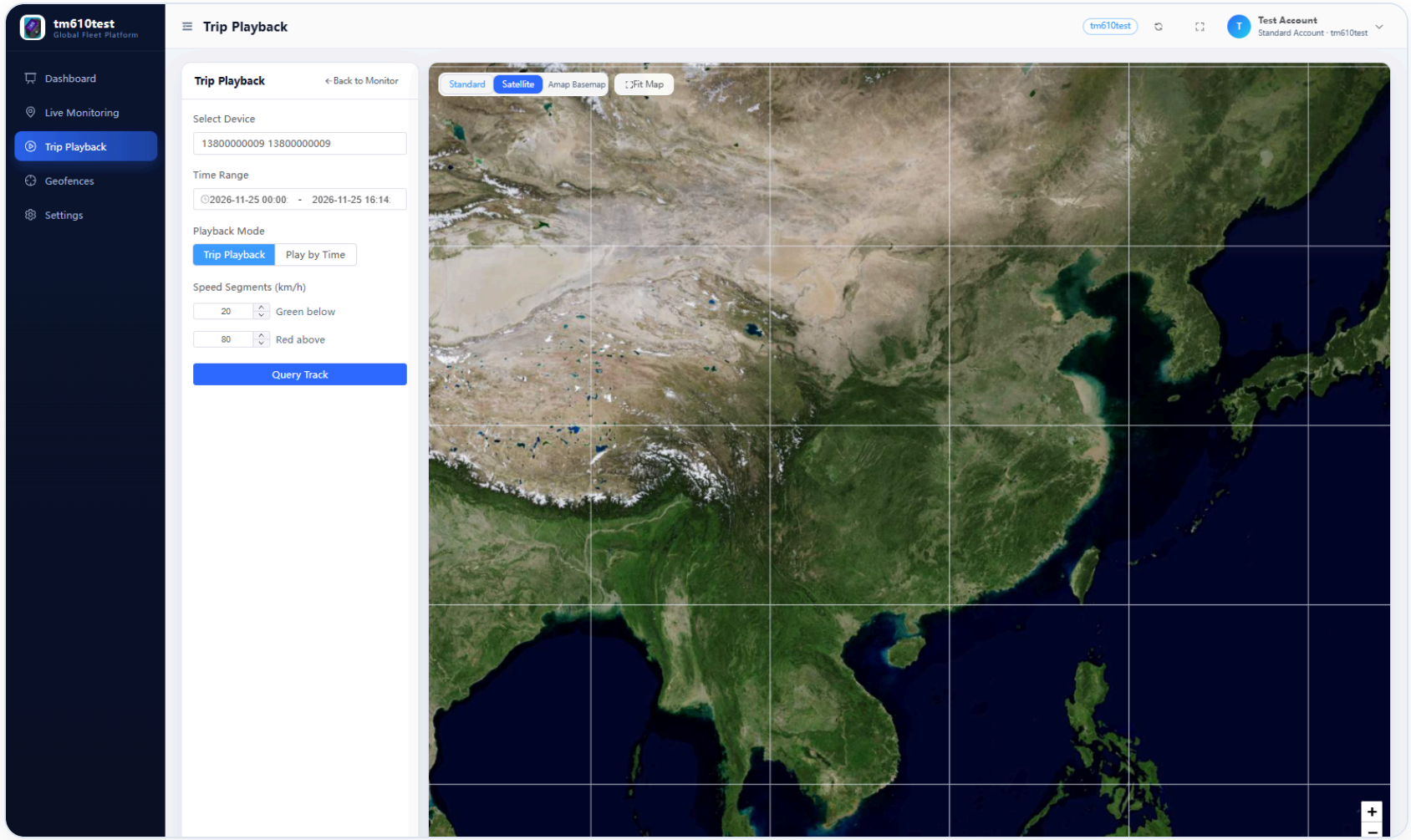


Key Points

- Officer markers overlaid on the map for instant force overview
- List with online status, location time and coordinates
- Filter by organisation / group and search by status

Track Playback

TRACK PLAYBACK

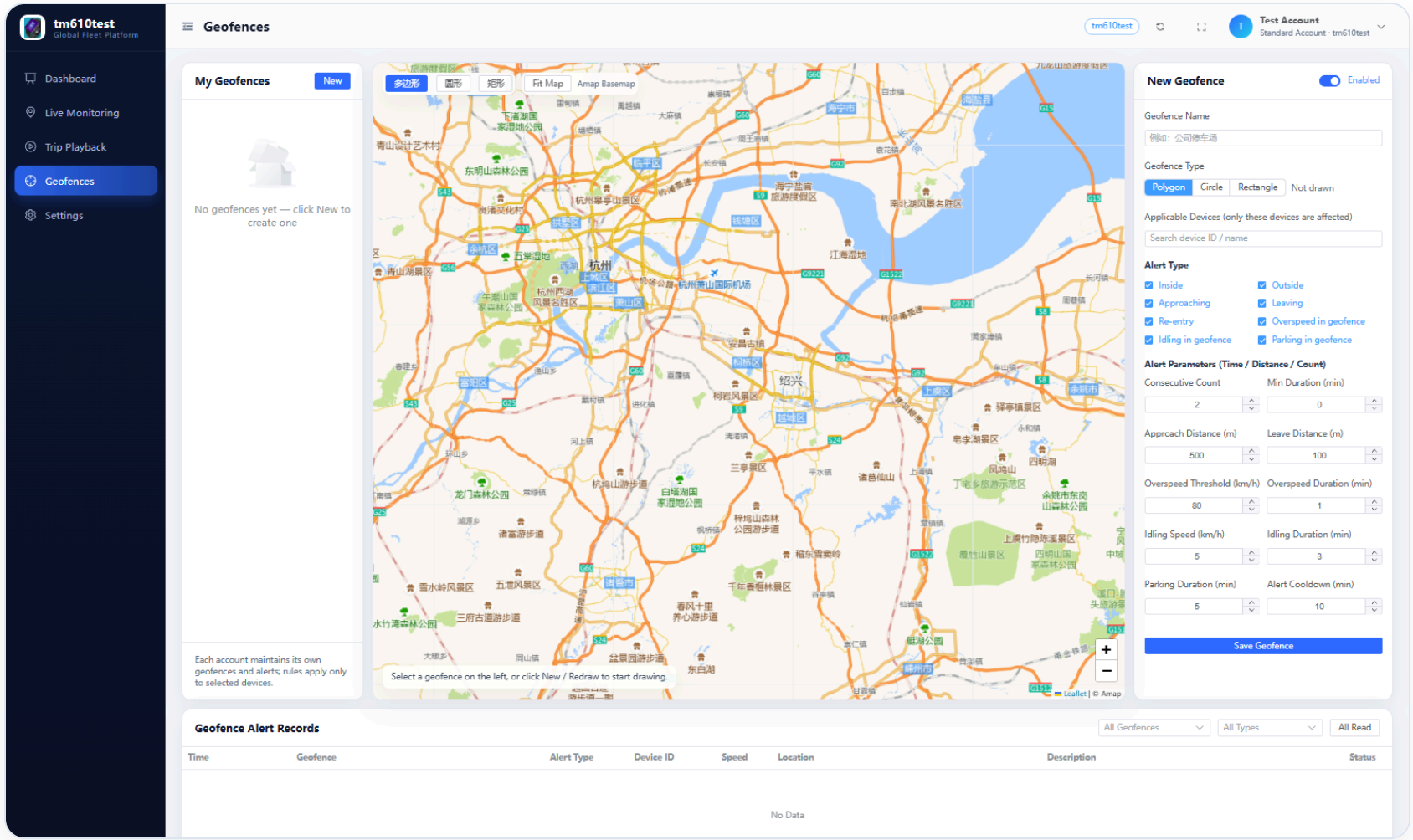


Key Points

- Replay historical patrol routes by officer and time range
- Segmented colouring and secondary playback
- For duty tracing, incident checks and review

Geofence & Settings

GEOFENCE & SETTINGS



Key Points

- Circle / polygon / district fences with entry-exit alerts
- Searchable fence alarm records with multiple filters
- Central configuration of organisation and platform parameters

Wearable Terminal

TM922B-LED TERMINAL



TM922B-LED Smart Shoulder Light

A wearable terminal for police, traffic officers and security personnel. It combines Beidou multi-mode positioning, red-blue strobe, emergency lighting and one-touch SOS in a light, all-day device that connects every officer to a unified command platform.

Beidou Positioning | 4G Cat.1 | Red-Blue Strobe | Emergency Light | One-Touch SOS | IP65 Waterproof

Five Core Capabilities

FIVE CORE CAPABILITIES

Five capabilities that matter most on the front line, turning “visible, dispatchable, protected” into every mission.

01

Beidou Precision Positioning

BD + AGPS + WiFi multi-mode positioning, accuracy better than 10 m.

The command centre sees force distribution in real time, dispatches the nearest officer, and traces tracks for review.

02

Command & Dispatch

The platform aggregates officer positions and status; orders reach officers with one touch.

Break through layers, coordinate multiple units under one command, and assemble forces quickly in incidents.

03

TTS Voice Broadcast

Dispatch orders and alerts are delivered to officers as speech.

Receive orders and prompts without staring at a screen — faster reaction and focus kept on the scene.

04

Emergency Lighting

Short-press the power button for steady light, at about 0.06 W.

Instant fill light for night checks, low-light searches and incident handling, improving visibility and safety.

05

Red-Blue Strobe Warning

Hold the LED button 3 seconds to trigger strobe and send an SOS.

12 high-brightness red/blue LEDs, visible at 1–50 m, for rapid warning, deterrence and help requests.

Specifications

SPECIFICATIONS

Positioning & Communication

Positioning	BD + AGPS + WiFi
Accuracy	< 10 m
Network	4G Cat.1 (LTE FDD + TDD)
Antenna	25×25×2 mm ceramic
Report Interval	Active 30 s / Sleep 15 min
Protocol	Standard positioning data

Appearance & Endurance

Dimensions	86 × 41 × 31 mm
Weight	approx. 87 g
Material	PC / stainless clip
Waterproof	IP65
Battery	1700 mAh / 3.7 V
Operating Time	~12 h (locate + flash) / 24 h (locate)

LEDs & Light

LEDs	6 red + 6 blue
Brightness	500 mcd each (red / blue)
Visible Distance	1 – 50 m
Flash Rate	8 Hz
Lighting Power	approx. 0.06 W
LED Life	50,000 hours

One-Touch Operation

Power On	Hold power 3 s; blue-green LEDs on
Lighting	Short-press power for steady light
Clock In	Short-press LED; red-blue slow flash
Clock Out	Press LED again; lights off
SOS Alert	Hold LED 3 s; strobe + alert sent
Power Off	Hold power 3 s; LEDs off

Use Cases

USE CASES

Traffic Control

Road and junction duties: red-blue strobe strengthens warning and safety, Beidou supports dispatch.

Police Patrol

Patrol forces visible in real time; nearby dispatch for incidents; one-touch SOS for backup.

Event Security

Security deployment visible, unified command and group dispatch, TTS voice orders delivered fast.

Emergency Response

Emergency light in low-light scenes, strobe warning and help requests improve response and safety.

Demo Platform

DEMO PLATFORM

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Command & Dispatch Platform

Positioning · Dispatch · Duty Management

Demo Environment

URL	**http://dw.tm-device.com/**
Account	**13880000339**
Password	**123456**
Org Code	**PLATFORM**

First login requires the organisation code and a CAPTCHA as prompted. Demo data is for feature experience only.

Every officer, visible and dispatchable — and safe

From wearable terminals to command dispatch, building a foundation of safety and efficiency for frontline enforcement.

Beidou | Dispatch | TTS | Lighting | Strobe