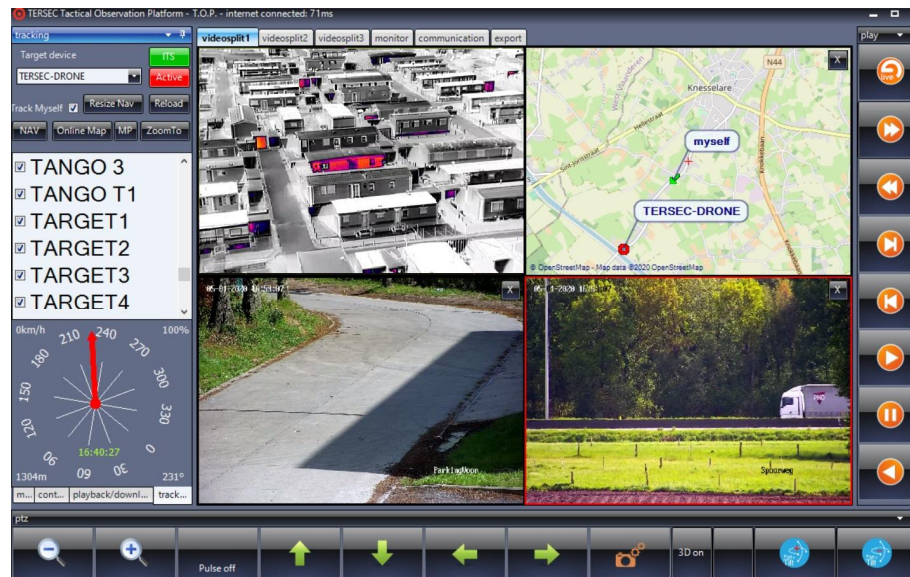


TACTICAL OBSERVATION PLATFORM



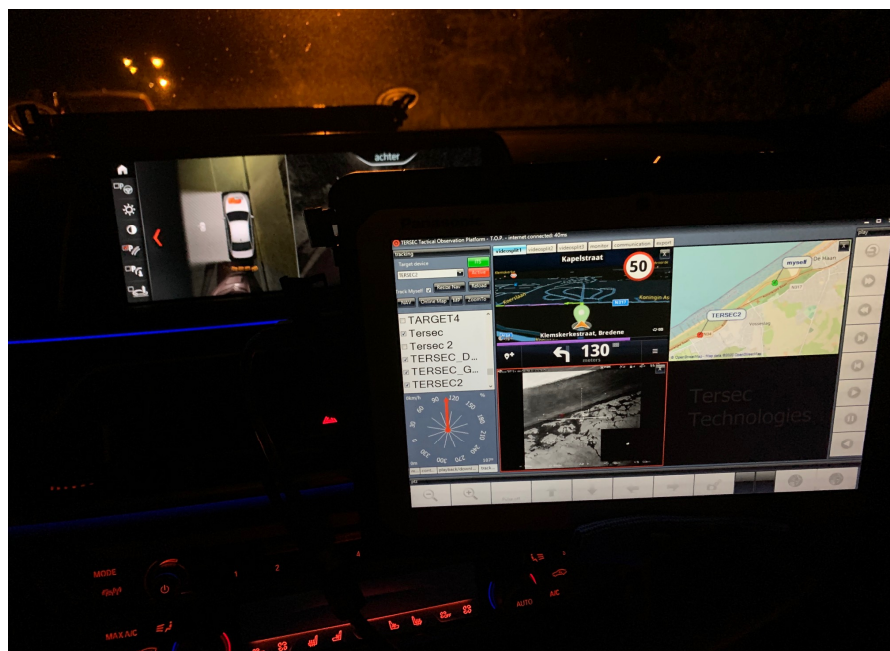
- User-friendly interface for mobile intervention teams & mobile command centers including specific screen layout for in-vehicle usage
- Live view on-board cameras, bodycams, remote cameras & UAV video feeds
- Control PTZ cameras via touchscreen interface
- 3D PTZ control – quickly zoom to selected area
- Dynamic guidance to moving or static targets or team members using internal GPS navigation engine
- target/colleague position can be marked by UAV or GPS tracking platform + SDS2GPS messages
- Live videofeed UAV – view low-latency UAV videofeed using 3G-4G-5G
- UAV camera control
- View live position of team members, UAV positions & incident positions
- Send navigation guidance to team members using TETRA & smartphone
- Upload snapshots to intervention teams using smartphones & tablets
- Broadcast messages to team members
- intuitive interface – large touch screen buttons
- What3words support

Mobile touch-screen based client application for in-vehicle use

- User-friendly interface built for use with touch-screen(s)
- Records onboard cameras
- View live & recorded video from onboard cameras + control onboard cameras
- View live & recorded video from remote cameras & UAV video feeds
- Hikvision & third party VMS supported
- Supports covert camera solutions
- Show own position, position of team members, targets & incidents on the map
- Upload snapshots from local & remote cameras to broadcast images to team
- Receive snapshots from central imaging server
- Go112 platform integrated – controls on-board systems e.g. lights, sirens, power management (screenshot 2)



- (1) camera feeds, own position (green), team member position (blue) ,target position (red) + dynamic guidance to target or team member



- (2) in-vehicle screenshot during night time operation

System components

- I.T.S. centralised communications, tracking & imaging server
- mobile touch-screen based client application for in-vehicle use
- mobile phone & tablet application for iphone, ipad, ipad mini & android devices

The system allows to distribute imaging & positioning information to all members of the team. Images can be transmitted from UAV video feed, digital SLR cameras, surveillance cameras, smartphone cameras,...

The image database is centralised so all members of the team will have access to an up-to-date database.

Positioning information from objects and/or team members is visible in realtime.

T.O.P. is fully integrated with Fast Protect's Terra4D incident management platform for command & control operations.

The system generates unrivalled situation awareness with increased efficiency during complex observation & surveillance operations.

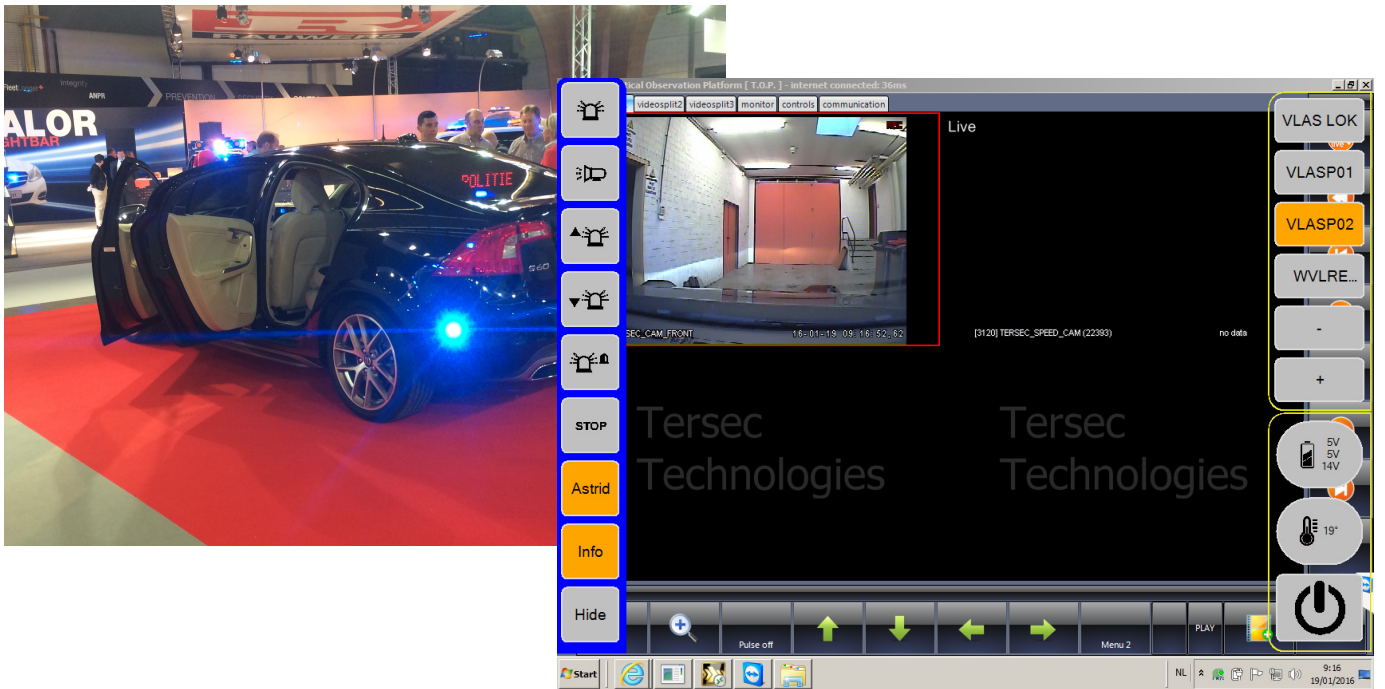


Integrated with portable UAV HD video transmission platform using 4G/5G networks

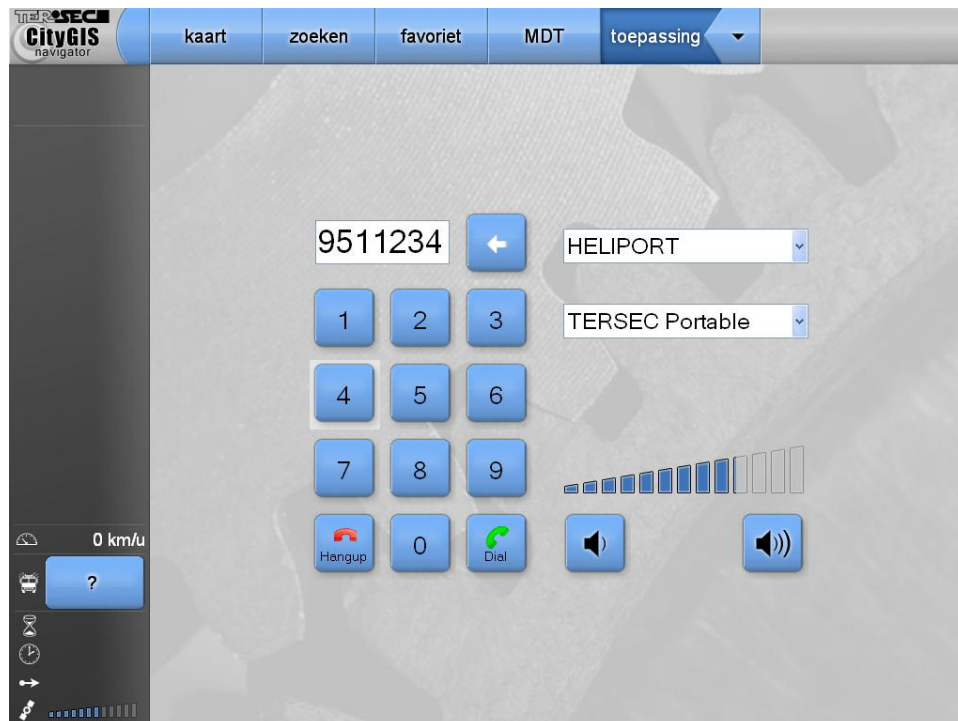


- Compatible with multiple UAV systems : dji m300, m210, dji inspire, dji mavic pro, dji mavic enterprise (dual), yuneec, .. uses standard UAV hdmi output
- Ultra compact – portable size : 5cm x 10cm x 3,5cm
- Low latency < 2 seconds – typical +/- 0,5 seconds
- Dual encoders for combined transmission & on-board recording to micro SD
- Internal battery +/- 3,5 hours autonomy
9 hours autonomy using gsm powerbank
- 5V DC – 12V DC power input
- Distributed server architecture & bandwidth optimisation
- Secure streaming server possibilities : tersec datacenter or private server
- View live video – multi-platform : windows, apple IOS, android
- Internal gps module – transmits own position
- Full size hdmi connector
- High-end encoder hd transmission starting from 0,3 Mbps ... 2,5 Mbps
- Field tested & approved for mission critical operations
- Based on more than 10 years R&D





- (3) - lights & siren control
- selection of TETRA group & volume level
 - battery level indicator



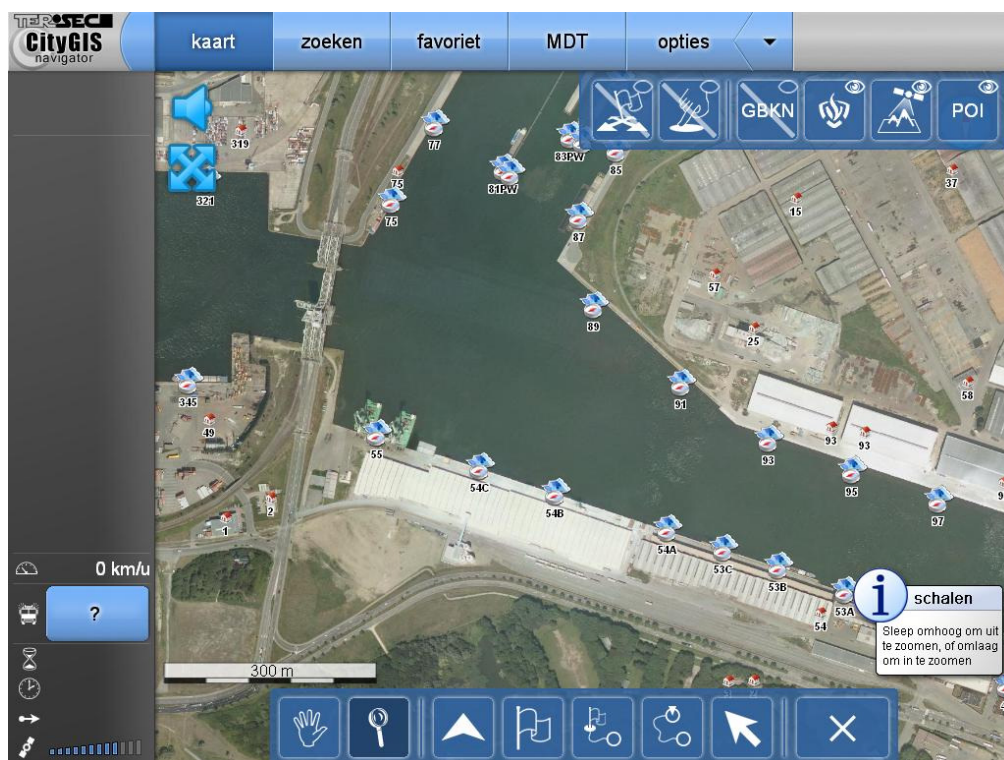
- (4) TETRA radio control

Mobile phone & tablet application “PANTHER” for iphone, ipad, ipad mini, ..

- User-friendly smartphone applications featuring:
 - o Broadcast & individual messaging support via TETRA-SDS, SMS, T.O.P. instant messaging, .. (cross-platform)
 - o Receive target waypoint for realtime interception & guidance to target – compass mode with realtime distance to waypoint indicator
 - o Send & receive assistance requests
 - o Send & receive images
 - o Situation awareness through visualisation of own position + team member positions
 - o Supports Google maps/ Sat maps / Hybrid maps

Teams can be guided dynamically to targets and/or colleagues

- T.O.P. can send positions as target destinations to Internal GPS engine and/or CityGIS navigator clients
 - o Supports high resolution off-line aerial photo layer
 - o Utility line information layer
 - o House-number layer from national G.I.S. providers
 - o Windows based platform



Centralised communications, tracking & imaging server

- Multi-protocol tracking server with support for the following technology providers:
 - o Multiple tracking protocols supported, + support for covert tracking devices
 - o Track – android tracking application/service
 - o iTrack – Windows tracking application/service
 - o ...
- Supports multiple transmission technologies
 - o GSM, CSD-DATA, SMS
 - o 5G, 4G, 3G, 2G
 - o TETRA (Astrid, C2000, TetraPol, ...)
 - o SATCOM
 - o WiFi
- Supports SQL databases like MS-SQL, Sybase SQL, MySQL, ...
- History reporting tool
- Client-server secure setup
- Supports geo-fencing
- Integrates with external tracking servers ex. TETRA CLS

Ruggedized mobile computer for in-vehicle usage

- Fully ruggedized computer system
 - o Shock protected
 - o Extended temperature range
 - o Sunlight readable displays 7" widescreen, 10" touchscreen or 12" touchscreen
 - o Supports up to 3 displays



TERSEC

Industriepark 27
8730 BEERNEM
BELGIUM

<http://www.tersec.eu> mail : tdj@tersec.be

Tel. : +32 (50) 79 11 35
Mobile : +32 (475) 70 21 16