Notoxytech GCS Pilot for Windows

Function Catalogue

Version 4.0 · October 2026
For drone operators

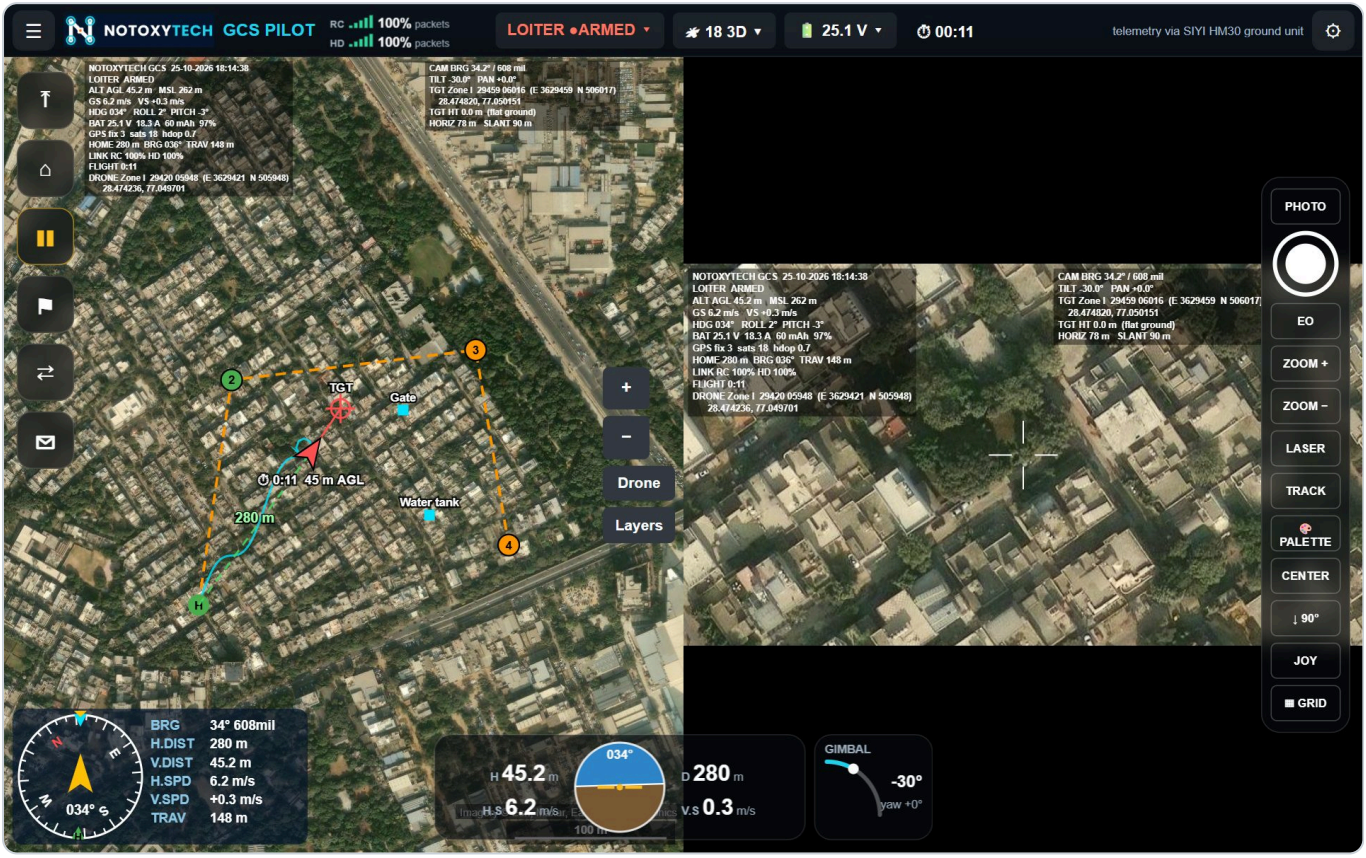
Notoxytech Technologies Pvt Ltd, Delhi
info@notoxytech.com · www.notoxytech.com

Contents

1. Overview
2. Supported hardware
3. Flight control
4. Map and missions
5. Camera, gimbal and video
6. Targeting and coordinates
7. Safety and monitoring
8. Sharing, recording and files
9. Screen and personalisation
10. OEM manufacturer functions

1. Overview

Notoxytech GCS Pilot for Windows is a universal ground control station for drones and other unmanned vehicles that use MAVLink (ArduPilot and PX4). It shows flight data, the map and the camera picture on one screen, and controls the vehicle, the gimbal camera and the laser rangefinder.



Map and camera picture side by side, with flight data, instruments and quick flight buttons.

	Windows Pilot
Runs on	Windows 10 / 11 laptop, with Microsoft Edge or Chrome
Connects to the drone	SIYI HM30 ground unit (Wi-Fi / Ethernet), RadioMaster Ranger / Nomad (ExpressLRS, USB or Wi-Fi), telemetry radio on USB
Flown with	USB or Bluetooth gamepad (Xbox, PlayStation, generic), screen and keyboard

2. Supported hardware

Type	Supported
Autopilots	ArduPilot (Copter, Plane, QuadPlane / VTOL, Rover, Sub), PX4
Remote controllers	– (flown with a gamepad)

Type	Supported
Radio links	SIYI HM30 and MK-series ground units, ExpressLRS (RadioMaster Ranger / Nomad) in MAVLink mode, SiK telemetry radios, Herelink, any MAVLink UDP / TCP / USB link
Gimbal cameras	Skydroid C11, C12, C14; SIYI A8 mini, A2 mini, ZR10, ZR30, ZT30, ZT6; Reebot UniPod MT11; any camera controlled through the flight controller (MAVLink gimbal)
Video	H.264 and H.265 over RTSP or MPEG-TS, low delay
Gamepads	Xbox, PlayStation, PS2 adapters, generic USB / Bluetooth

3. Flight control

Function	What it does	Where
Take off	Arms and climbs to a chosen height (multicopter, VTOL; planes in TAKEOFF mode)	⤒ button, FLY tab
Land / Return home / Pause	Land where it is; fly home and land; stop and hold position	Left buttons, FLY tab
Flight modes	All modes of the vehicle type (LOITER, POSHOLD, GUIDED, AUTO, RTL, SMART RTL, BRAKE, LAND …)	Flight mode in top bar, FLY tab
Arm / disarm	With confirmation; warning when the vehicle seems airborne	Flight mode menu, FLY tab
Fly here	Sends the vehicle to a point on the map at a chosen height (GUIDED)	Map menu
Change altitude	Climbs or descends where it is	FLY tab
Gamepad flying	Sticks as RC override, 25 times a second; camera on buttons; automatic return home 3 s after the gamepad is lost	Gamepad

4. Map and missions

Function	What it does	Where
Live map	Vehicle, home, flown path, line to home with distance, camera target, waypoints and saved points	Main screen
Map sources	Google, Bing, Esri, OpenStreetMap / OpenTopoMap, Mapbox, custom; satellite, hybrid, street, terrain	Layers, SETUP › Map
Offline maps	Download named areas for flying without internet	SETUP › Map
Mission planning	Waypoints by tap or typed coordinates; take-off, loiter, loiter turns, speed, RTL, land; edit, move, reorder	PLAN tab

Function	What it does	Where
Survey area	Zig-zag lines over a drawn area with spacing, angle, height and overshoot	PLAN › More
Upload / download / start	Sends the mission, reads it back, starts it in AUTO	PLAN tab, ⚑ button
Mission files	Save and load; Mission Planner / QGroundControl .waypoints	PLAN › More

5. Camera, gimbal and video

Function	What it does	Where
Live video	Low-delay camera picture with OSD; map and video swap, split or picture-in-picture	Main screen
Photo and recording	Photos and MP4 recordings with the OSD burned in; recording on the camera card	Camera buttons, GIMBAL tab
Day / thermal	Switch EO / IR; thermal colour palettes	EO / IR, PALETTE
Zoom	Hold to zoom in or out	Camera buttons, gamepad
Aiming	On-screen joystick, buttons, exact tilt / pan angles, centre, look down, keyboard	JOY, GIMBAL tab
Target tracking	Camera follows a target chosen by tap or box	TRACK
Laser rangefinder	On / off, single shot, continuous; distance on the picture	LASER, GIMBAL, TARGET
Grid lines	Nine-box framing grid on the live picture only	▦ GRID

6. Targeting and coordinates

Function	What it does	Where
Target position	Position, height and distance of the point under the crosshair, by laser or flat-ground calculation	TARGET tab, OSD
Capture points	Save the target or the vehicle position with a name	TARGET tab, map menu
Fire correction	Left / right and add / drop corrections from falls of shot, also in grid east / north	POINTS tab
Deviation	Distance and direction between points	POINTS tab

Function	What it does	Where
Coordinate formats	Lat/Long (decimal, D M S), UTM, MGRS, Indian Grid (Everest, zones I–IVa), DSM (India NSF LCC, 18 sectors, automatic)	SETUP › Coordinates
Export	Points as CSV (Excel) and KML (Google Earth)	POINTS tab

7. Safety and monitoring

Function	What it does	Where
Preflight checklist	Live automatic checks plus hand checks; at start-up and on demand	☑, FLY tab
Link quality	Both directions of the link, per link type, with a 2-minute graph	Signal bars
Battery	Voltage, current, capacity used, percentage, reserve warning	Top bar
Messages	Autopilot messages, errors and warnings	🖂 Messages, FLY tab
Voice	Spoken warnings and status (if enabled by the manufacturer)	–
Instruments	Height, speeds, distance, artificial horizon, compass, camera tilt	Bottom of the screen

8. Sharing, recording and files

Function	What it does	Where
Photos and videos	Pictures\NotoxytechGCS and Videos\NotoxytechGCS on the laptop	–
Points and plans	CSV, KML and .waypoints files	POINTS, PLAN

9. Screen and personalisation

Function	What it does	Where
Map / video layout	Large map or video, side by side, movable and resizable small window	Main screen
Side menu	Tabs on the left or right side	☰, ⇆
Coordinate format	Chosen by the operator	SETUP › Coordinates

10. OEM manufacturer functions

FOR THE OEM MANUFACTURER

These functions are protected by a password and are for the manufacturer of the drone system only. They are listed here by name: autopilot parameters, sensor calibration and the tuning check (PARAMS tab); link and camera selection, video and camera control, signal reading, gimbal and laser setup, gamepad flying, battery, screen layout, start-up, sound and display.