LiPowerlineV10.0.0 -14/10/26

1. AI Assistant (New)

(1) Added built-in product knowledge base with intelligent Q&A capability.

(2) Enabled natural-language invocation of core features, covering over 90 operations.

(3) Integrated data and analysis results, supported hazard point trend tracking, and enabled comprehensive report generation.

2. Tower Management

(1) Added tower search function.

(2) Added auto-save for the tower.kml file when exiting the Tower Marking module.

(3) Optimized tower material type configuration with batch operation support.

(4) Optimized tower extended information configuration, supporting custom column attributes and their data types.

(5) Added scheduled auto-save of tower files and tower reverse sorting for distribution grid towers.

3. Corridor Analysis

(1) Optimized span classification with a new deep learning ground point classification option.

(2) Optimized corridor hazard point detection.

(3) Optimized sag analysis and phase-to-phase clearance analysis.

(4) Optimized features related to simplified tower models.

(5) Optimized automatic insulator vectorization.

(6) Added batch vectorization function for jumper wires.

(7) Added hazard point display settings.

4. Distribution Grid Inspection

(1) Optimized inspection camera configuration parameters.

(2) Optimized model-based route generation, supporting association with tower extended files and automatic route safety optimization.

(3) Added photo name modification function: for routes without component points, it supports custom photo names and association with distribution grid route models, with names writable to DJI KMZ route files.

5. Fine Inspection

(1) Optimized tower inspection configuration: updated the default configuration file, added a reset option, and enabled configuration package import and export.

(2) Added line-based component point extraction. For insulators and overhead ground wires, it supports point extraction via line drawing and automatic matching of corresponding component names.

(3) Optimized automatic route generation based on inspection configurations.

(4) Optimized template-based route generation.

(5) Optimized corridor route generation.

(6) Optimized conductor and ground wire inspection route generation.

(7) Optimized waypoint editing.

(8) Added waypoint parameter duplication function.

6. Substation Inspection

(1) Added component-point-based route generation, supporting one-click generation of obstacle-avoidance safety routes based on selected component points.

(2) Added automatic route generation for 3D Gaussian Splatting (3DGS) data acquisition.

(3) Optimized 3DGS data processing and loading capabilities, supporting LOD-based data creation and loading.

(4) Added panoramic image module, supporting panoramic photo loading and quick location and viewing of device nameplates, meters and other information.

(5) Added 3D model instance annotation tool.

(6) Added expand/collapse functionality for ledger tree nodes.

(7) Optimized route generation based on ledger data and existing route files.

7. Other Updates

(1) Upgraded coordinate system settings to support more coordinate system options.

(2) Relocated the 3DGS data loading entry point to the data directory tree.

(3) Added Japanese as a display language option.

8. Fixed multiple known issues.