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'Incident Commander Pro' - Program Details



Overview:

'**Incident Commander Pro**' is built upon the **NIMS Incident Command System** and provides a comprehensive set of Command, Operations, Planning and Logistic functions to manage every type of emergency-response mission. 'Incident Commander's' features are tightly integrated and field-tested to provide a fast and flexible response to every aspect of the mission. Full ICS implementation, a **Quick-Start Wizard**, detailed planning datasets, self-healing software, **Resilient Networking**, **Context-Sensitive Help**, automatic data loading and extensive **Printing** and **Exporting** capabilities, all combined with many years of real-world experience, make 'Incident Commander Pro' the premier state-of-the-art incident management program.

Some of 'Incident Commander Pro's' main features include:

GIS Mapping:

'**Incident Commander Pro**' features a fully integrated GIS mapping module that displays a '**Live-Update**' **Mission Map** of the current mission status. The '**Team-Tracker**' function automatically plots the location of each team in the field from their location recorded in the Communication Log. Custom symbols can be selected for each team and their positions will be automatically plotted and updated as a 'breadcrumb' track on the mission map display. The GIS mapping module permits **Planning Maps** to be created, by assembling a selection of background map layers and custom map mark-ups, which are drawn on the '**Mylar**' **Map Overlays**. These (default) planning maps can be saved and any one later selected to be the **Mission Map**, or a new mission map created directly during the mission.

Dynamic Scale-Bars, numbered **UTM & Lat-Long Grids** and the selection of **Metric/Imperial Units**, **Custom Map Symbols** and **Datum & Coordinate Selection** permit these maps to be customized to the local requirements. **Lines, polygons, circles, text and symbols** can also be added to further customize the map with local information.

Routes and areas drawn on the map are automatically saved into the '**Incident Commander Pro**' tables, which can then be edited and their information updated. These routes and area tables can be directly loaded into field team assignments. Areas can be given an **Area Grid** and routes given a **Buffer-Width** (sweep-width), at user-defined spacings. Probabilities can be given to each mission area and these displayed as a color-shaded **Probability Map**.

Subject Behavior Profiles, for both distance (radius circles) and expected direction of travel (angle sectors) can be selected from an extensive list and plotted directly to scale on the maps. **Direction Arrows** drawn on the map are automatically displayed with their True compass bearing.

Routes drawn on the map may be exported to **GPS Route Waypoint Files** and these uploaded into GPS units using programs such as GPS Utility. GPS tracks downloaded into 'shape-files' (using GPS Utility) can be plotted as background map layers. Mobile units with Automatic Position Reporting (APRS) files in NMEA183 format, can be automatically displayed as a 'breadcrumb' plot using the **Plot NMEA Trackfile** function.

'**Incident Commander Pro**' displays a wide variety of industry-standard non-proprietary map file formats including **ESRI 'shape-files, coverages, MrSID ortho-photographs, DWX & DXF CAD files and geo-referenced tif, jpg and bmp image file formats.**

Command:

The Command menu provides a complete set of data-linked ICS Command forms to help direct the mission, including **Organizational Charts, Mission Objectives** and an image-editable **Mission Briefing** form, while the **Mission Status Summary, Mission Report** and **Missing Person Incident Summary** forms help coordinate operational shift changes and generate accurate mission reports for analysis and review.

Operations:

The Operations menu provides a 'live' **Mission Status Display, Personnel Status Display, Resource Status Display** and a **Mission Statistics Dashboard**, that automatically update their data to provide an instant minute-to-minute snapshot of every major aspect of the mission. These real-time status displays provide an instantaneous 'Big Picture' of how the mission is progressing.

Planning:

The Planning menu permits all types of search, rescue and emergency-response assignments to be created and their resources allocated, including command, planning, logistics and support assignments. Detailed geographic information about Mission Routes and Areas - including digital images - can be stored and this information passed directly to the mission Assignment Forms, along with detailed contact and role information for each assignment responder. The Missing Person Questionnaire accepts digital portraits of the subjects, while the Operations Plan automatically updates and prioritizes all of the listed assignments, using the latest mathematical planning concepts.

Logistics:

The Logistics menu includes a central **Communications Log** that both records all of the mission's communications, notes, status and clues, and sends this information, as soon it is received, to the central database, where a range of operational Status Displays automatically update their information based on the latest 'live' field data. The GIS Map Module automatically updates and re-plots the '**Team Tracker**' **Location** of each team in the field, from the UTM location recorded for that team in the Communications Log's Location field. A **Mission Communications Plan** and **Mission Medical Plan** are automatically created for each mission, while the personnel **Check-In Form** has been enhanced to permit the fast Check-In and Check-Out of large numbers of mission responders.

Calculations:

The Calculations menu permits time and manpower requirements to be rapidly calculated for each field assignment, using the latest effort-based mathematical algorithms and an expanded collection of newly-updated integrated datasets. A convenient, easy-to-use **Lat-Long to UTM Converter** rapidly converts between these common geographic units, while displaying the position interactively on a geographic map display.

Planning Data:

The Planning Data menu includes a significantly enhanced set of **Probability of Detection** tables, that cover an expanded range of terrain types. All of this data has been updated and calculated based on sweep width and coverage values, and can be used to automatically compute optimized time and manpower requirements.

An expanded set of **Subject Behavioral Profiles** now includes 44 subject types, including more in-depth information on each subject type, their statistical distance travelled, POA, PDEN and the newly available Direction of Travel data. This data can be plotted, as radius circles and direction sectors, using the optional **GIS Map Module**.

A new **Travel Speed** table provides a comprehensive table of travel speeds for different travel modes and terrain types. The Subject Behavioral Profile's distance/area calculator and the Gridsearch Calculator can both automatically accept selected values from the Travel Speed table to rapidly compute distance traveled, task time and manpower requirements.

A **Mission Types** table provides a set of six ready-to-use pre-plans for common search, rescue and emergency-response missions. This list may be edited and new mission types added to meet the specific requirements of the user.

User Data:

The User Data menu includes a **Personnel Table** that lists all of the contact information for each person, their skills, a digital portrait, phone numbers and personal radio callsign. This data is automatically transferred into various areas of 'Incident Commander' for immediate access during the mission.

The **Organizations** table contains the full contact information for each listed organization, including live 'hot links' to their email and web address.

The **Default Routes** and **Default Areas** tables record descriptive and geographic information, including digital images, of pre-planned routes and areas. This information can be automatically loaded into the mission for immediate use.

The **Default Communications Plan** and **Default Medical Plan** pre-store the common communications systems and medical pre-plans ready for immediate use during a mission.

The new **Resource Types** table contains a comprehensive list of resource types commonly used during missions. This list can be edited and new entries added, so that any type of resource can be created and allocated to an assignment.

The **Pre-Plan Notebook** permits any kind of note to be created and listed, including pre-plans, response protocols, standard operating procedures, equipment lists etc.. The Pre-Plan Notebook can also link to and open any file already existing on the computer system, thus permitting fully formatted documents, including Word, Excel, PDF's Powerpoint, images etc., to be linked and opened for immediate viewing. This enables pre-existing, formatted pre-plans, SOP's, data tables and other reference documents to all be rapidly accessed and immediately viewed within 'Incident Commander Pro'.



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