



CMA-9000
CMA-3000
CMA-900

CMA Part Task Trainer



CMA Part Task Trainer Workstation

The unique «full free play» **CMA Part Task Trainer** is aimed for Initial and Recurrent Training. The objective for the CMA Part Task Trainer is to familiarize the user with the CMA-9000, CMA-3000 or CMA-900 Flight Management Systems, as well as «hands on» practice to gain experience in the operational functions of the Flight Management System in all phases of operation.

The CMA high-end replica hardware is a “true” replica of the CMA instrument. It appears (looks and feels) like the original CMA instrument. The CMA simulation software is a “true” emulation of the CMA functionality without any limitations of the actual CMA functionality others than those given by the configuration. I.e. the CMA simulation software behaves and appears for the pilot as the real thing.



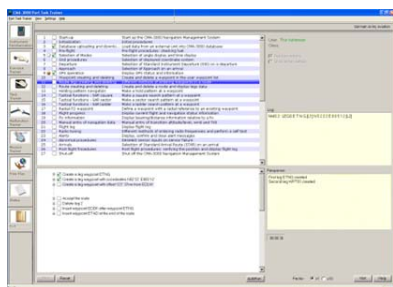
CMA-3000 Simulation Software

Product Features:

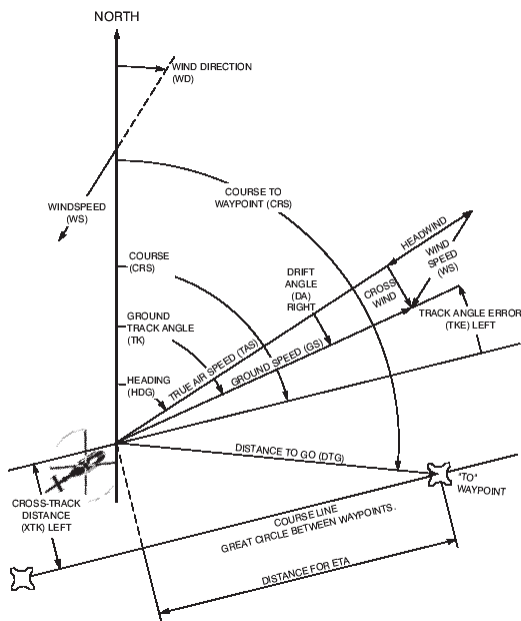
- Aimed for individual and/or instructor guided training.
- «Full Free Play» of the CMA Flight Management System and all other instruments included.
- Aircraft behaviour, cockpit instruments, behind panel systems and user input from panels are simulated in real-time.
- Instruments familiarization module.
- Customized Exercise Trainer, initially supplied with a number of predefined Exercises.
- Customized Task Trainer, initially supplied with a number of predefined Tasks.
- Customized Mission Trainer, initially supplied with some predefined Missions.
- Customized Malfunction Trainer. Only Malfunctions relevant to the present status of operations are available, likewise corresponding customer approved Procedure related to the Malfunction.
- Comprehensive configuration and administration management system.
- Student tracking and monitoring system.
- Extensive Exercise, Task and Mission Builders. The Builders may be used to edit, remove or add new Exercises, Tasks and Missions to the Part Task Trainer.
- Aircraft Setting Configuration on Entry and during Flight. The Part Task Trainer features possibilities to vary wind and Speed Multiplication factors (1X, 2X, 3X, 4X, 5X, 10X).
- Reposition is available from the Manual Flight Menu direct action key to any position contained in the database. Selection to Waypoint, Airfields/Runways, VOR, ILS, ADF at selected Heading and Altitude.
- The CMA Part Task Trainer Modules may be supplied as Full Free Play Objects to be incorporated into other 3rd party environments.



Included MEGHAS cockpit instruments and panels



Part Task Trainer Software



Navigation Relationship

Some Operational Tasks: (may vary according to configuration)

- | | |
|--|-------------------------------------|
| • Set-up | • Pre-flight |
| • Initialisation | • Pre Taxi |
| • Pre Take-off | • Departure |
| • Approach | • Holding Pattern Navigation |
| • Tactical Functions | • Updating the Selected Sensor Plot |
| • Doppler Control | • GPS Operation |
| • Waypoint Creating and Deleting | • Route Creating and Deleting |
| • Bearing and Distance Facility | • Grid Procedures |
| • Manual Entry of Navigation Data | • Selection of Modes |
| • Flight Management | • Flight Time Log |
| • Database Uploading and Downloading of data | • Compass Deviations |
| • Alerts | • Abnormal Procedures |
| • Arrivals | • Post Flight Procedures |
| • Shut-off | |



Customized cockpit environment

Customization:

The CMA Part Task Trainer has a modular design that is easy to customize, modify or enhance to fit any customer requirements and/or needs, and hence give the best training value for money. Customization may include:

- Adaptation to customer aircraft and cockpit configuration.
- Include or exclude cockpit instruments.
- Software only or replica hardware instruments.
- Stand-alone, networked or classroom configuration.
- Exercises, Tasks and Missions to include.
- Malfunctions and procedures to include.
- Other language versions than English.
- Expandable to FNPT or FTD environments, or any level in between.

The CMA Part Task Trainer comprises a generic flight model that generally aims to represent the helicopter in ISA. It is possible to Fly Manual, as well as by use of the Autopilot. Navigation is performed by use of either Fly Manual or by all available navigation sources according to generic navigation parameters.

The system is capable of handling ARINC 424 database files. There is a database organizer as part of the system where the operator may define the operation area in lat/long, where only data inside the selected area is present. The database has provisions to cover worldwide data.

Product Requirements:

- Run on standard low cost off the shelf multimedia PC Hardware (workstation or laptop).
- Run in a two or three screen configuration.
- Run in MS-Windows 98 or higher operating system environment.
- Runs as stand-alone or network solution, including classroom configuration.
- Future-proof design ready for next generation operating systems.
- Modular design that is easy to configure, modify and enhance according to customer needs.