

# FAST AIRPORT BUILDER

Micro Nav is the leading specialist producer of ATM simulators with an unbroken track record since 1988.

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Micro Nav integrates the BEST tower simulation software with the latest image generators, visualisation software and display systems to give customers 3D and 2D tower simulation to match their individual needs and budget.



With Micro Nav's Fast Airport Builder (FAB) end users can now develop 3D airport visual models themselves. They can create towers, runways, taxiways, buildings, stands and traffic procedures.

FAB links to the BEST ATC simulator data preparation tool that creates the tower, ground and airborne environment as well. The ATC data and the visual data are automatically correlated so that aircraft and vehicles move correctly throughout the 3D scene. When creating the visual scene, the tower and radar ATC situation displays are generated automatically at the same time.

## FAB SYSTEMS CAPABILITIES

- Great savings in cost and time
- Meet training needs
- Model new airports in days not months
- Carry out 'what if' changes to deliver training faster and more economically
- Test operational performance of airport designs

## GENERATE AIRFIELD ELEMENTS

- Ground Elements – Runways, taxiways, aprons, helipads, hold points, stop bars, stands and other ground markings.
- Raised Objects – Tower, signs, simple buildings, cylinders, polygons, raised lines, windsocks, traffic lights, obstacles and associated lights, airbridges, fences, trees, grass, etc.
- Model Library – FAB includes a library of models that include antennae, floodlights and various buildings.
- Other Elements – Sources of smoke, sites for explosions and RIMCAS areas.
- Model Import – FAB allows the user to import 3D models in a number of common formats.

# KEY FEATURES

Below is a selection of features included in the Fast Airport Builder. We are constantly updating our product features and currently have well over 100. If there is something you are looking for but do not see it here please contact us to discuss your requirements further.

## CUSTOMISATION

- Users can create their own model of an airfield and surrounding terrain quickly and efficiently
- Users can lay down a picture of their own airport from a mapping service, satellite view or aerial photograph
- Use CAD or other drawing software
- Set the scale and reference point
- Lay down the runways and taxiways
- Junctions, markings and airfield lighting are created automatically
- Lay down the aprons, stands and roads
- Create stop bars, holding points, push-back and taxi routes
- Select from the library of models
- Position and size the tower, the buildings and the airport items
- Select from the library of textures and colours and apply them
- Users can create and use their own site-specific textures
- Users can create and use their own site-specific models of buildings and airport features
- Take a quick look at the 3D model as it progresses
- Add the ATC ground and air environment and procedures
- View the full airport and airspace
- Data can be modified to meet individual users needs
- Fly aircraft traffic samples to test the designs
- Changes and tests can be carried out quickly and easily by customers without third party tools and costs

## ADDITIONAL FEATURES

- The topography of the surrounding area is accurately recreated using NASA GPS data
- The user can view the created objects and buildings within the airfield from any angle to aid the identification of unsighted areas
- Images and textures can be rendered onto the building walls for both night and day scenarios to increase the realism
- Professionally created 3D models may be commissioned and imported into the airfield

## 3D IMAGE GENERATOR

- The 3D IG (Image Generator) supplied with Fast Airport Builder uses the latest 3D graphics cards and PC providing a cost-effective upgrade path as technological advances are made.
- Additional tools within the integrated 3D IG allow you to customise various elements of the airfield such as:
  - size of the runway and taxiways
  - lights
  - position of the floodlights that light the apron areas



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