

GeoScapeSE Worldwide Database (WWDB) Included

- Worldwide terrain database includes 10 meter imagery resolution for CONUS region and 15 meter resolution for the rest of the world
- Utilizes Level 1 DTED elevation data
- Supports drop-in customizable high-resolution imagery, cultural features, and airfield models
- Comes with a Level D high-resolution airfield



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# Independence IDX 80 Commercial Aviation Level D Capable Training Solution



**Tremendous value ▪ Tiny footprint ▪ Total performance**  
**System Bundle with Hardware, Software and Visual Content**

## Affordable Level D Capable Solutions

Equipped with Quantum3D’s award-winning MANTIS® software, the Independence® IDX 80 provides exceptional value and performance for small and medium complexity visual systems. IDX 80 is ideal for Fixed-wing Commercial Aviation Level D Training Systems.

The IDX 80 Commercial Aviation Level D bundle includes everything needed to drive a simulator display.

## IDX 80 Level D Bundle Includes:

### Independence IDX 80 Image Generator

- Microsoft Windows 10 Pro
- Desktop Tower or 4U Rack-mountable
- Chassis: 7.0” W x 26.5” D (170x762x673mm)
- Dual Intel Xeon E5-series 6-core CPU
- 4 NVIDIA Quadro P4000 GPUs (P5000 and P6000 options available with other IDX 80 configurations)
- I/O
  - 2x GigE LAN (host interface + general use)
  - 2x USB 3.0 + 2x USB 2.0
  - 7.1 HD Audio
  - DisplayPort or DVI-I from each GPU
- Storage
  - 2x 500 GB Enterprise-grade SSD’s in RAID-1 (OS)
  - 3x 4 TB Enterprise 7200 RPM, in RAID-5 (data)
  - LSI hardware RAID controller w/battery back-up
  - Blu-ray Optical R/W drive
- Power
  - 120-240V Input single-phase, up to 10A
  - 2000W Output, dual redundant power supplies
- Certifications: UL, CSA, CE

## MANTIS Plug-Ins Included with Bundle

### Advanced Weather Plug-In

- 3 dimensional volumetric cloud layer
- Define regionalized weather patterns
- Renders up to 5 volumetric storm clouds with rain squalls and lightning
- Layered fog effect and density
- Cloud Shadows
- City light glow illuminated in clouds

### RunwayFX Plug-In (Runway contaminants)

- Facilitates runway conditions including wet, standing water, ice, snow, and sand
- Windblown sand and snow effects
- Reflection on runway lights
- Conditions returned in HAT/HOT/LOS

### Global Airports

- Dynamically inserts over 27,000 airfields worldwide

### Advanced Ocean Plug-In

- High quality ocean effects, including sun/moon reflection, true 3D waves, shoreline effect, terrain and model reflections
- Shader allows inland water reflections

### Shadow Plug-In

- Generates real-time shadows including full scene shadows

### Continuous Model Scaling (CMS)

- CMS offers correction of the rendered size of aircraft and other models in the distance
- Model Scaling will help by correcting the apparent sizes of aircraft seen at a distance (for example when on approach, and looking at aircraft further down the glide slope)

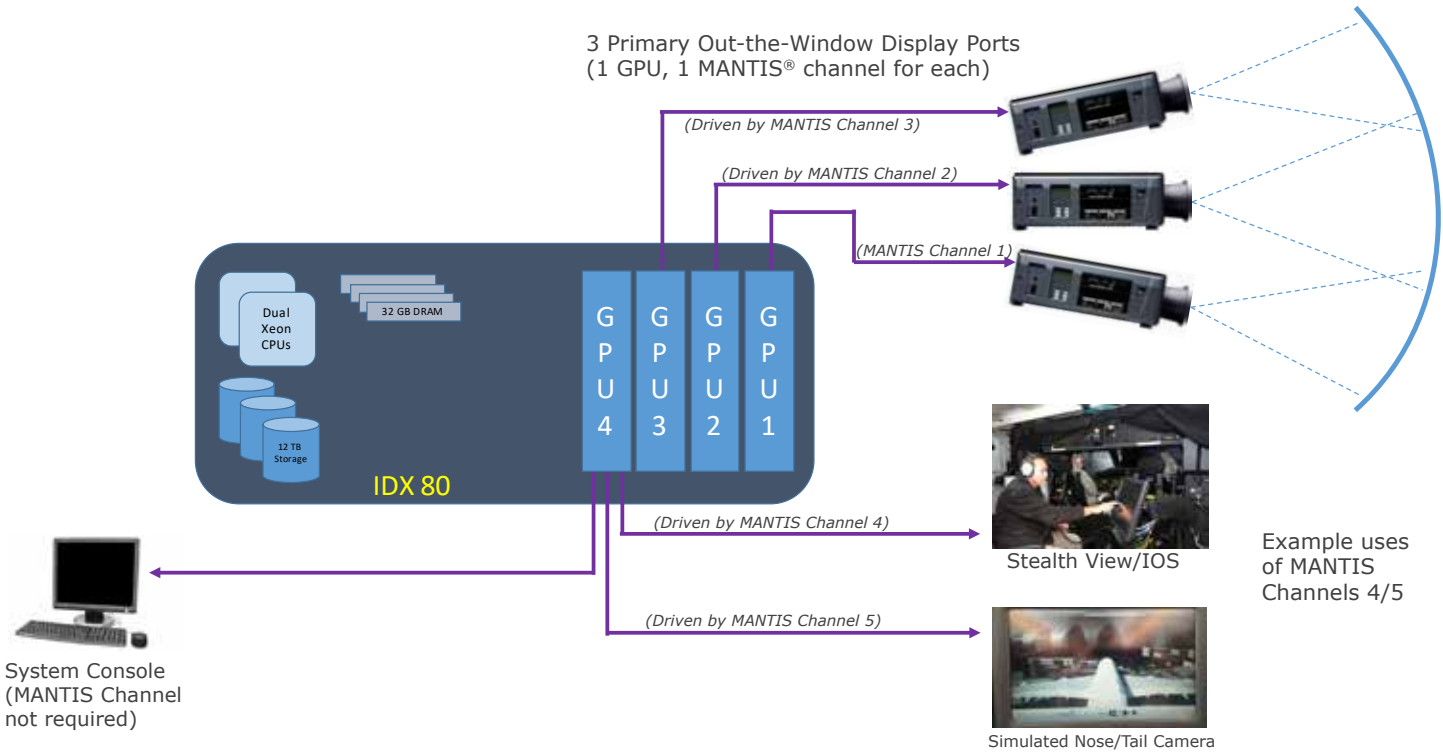
### Multithread Mission Functions Processing (MFP)

- MFP utilizes CPU cores to process mission function requests (line-of-sight inquiries, height-above-terrain inquiries, collision detection, etc.) without need for a dedicated MANTIS channel processor (PC node)



### MANTIS Image Generator Software

- 64-bit, Native Multichannel Support
- CIGI 3.x Host Interface
- FAA Level D Capable
- 5 Channel System



Turnkey IG Bundle for Civil/Commercial Fixed-wing Training Applications