

Independence IDX 80 | Image Generator



Tremendous value. Tiny footprint. Total Performance. The new IG from Quantum3D.

The Independence® Difference

Equipped with Quantum3D's award-winning MANTIS® software, the Independence IDX 80 provides exceptional value and performance for small and medium complexity visual systems with up to 8 channels. IDX 80 is ideal for many simulation applications, including: fixed-wing aviation (up to Level D), weapons and gunnery systems, hardware-in-the-loop sensor simulation, maritime and ship's bridge, automotive research, development and driving simulators, ground vehicles, fixed base and forward air traffic control, mono & stereo scientific visualization and virtual reality.

As the entry-level model in the Independence IG series, the IDX 80 shares many of the architectural features of the flagship IDX 8000 model, but is design-optimized for applications which require 4 or less total GPUs. It can drive up to 4 full-performance display channels, or up to 8 displays when running its GPUs in a dual-output mode.

Like the IDX 8000, the smaller IDX 80 offers a choice of the most powerful "Pascal" series GPUs, combined with a reliable enterprise-grade Intel Xeon-based server platform. IDX 80 also offers the same robust hardware video channel synchronization technology as our larger systems.

But unlike competitive IGs which require a four-foot or taller rack and 3 or 4 separate PCs just to drive a 3-channel display, the IDX 80 comes neatly packaged in a compact 4U-high case containing the entire IG system. IDX 80 can either be mounted in a standard 19" rack with plenty of room left for other customer equipment, or can simply stand alone in a PC deskside configuration.

Specifications*

MANTIS Image Generator Software

- 64-bit, native multichannel support
- CIGI 3.x host interface
- FAA Level D capable
- Optional plugins for:
 - Advanced weather & marine effects
 - Runway effects & global airports
 - Sensor simulation, and more

World-Wide Database (WWDB)

- 15M background imagery, Level 1 DTED elevation
- Supports drop-in high-res areas of interest (AOIs)

OS

- Microsoft Windows 10 Pro

Chassis

- Desktop tower or 4U Rack-mountable
- 7.0" W x 18.2" H x 26.5" D (170x462x673 mm)

CPU

- Dual Intel Xeon E5-series 6-core

Graphics

- 1-4 NVIDIA Quadro P4000, P5000 or P6000 GPUs

Storage

- 2x 500 GB Enterprise 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 20A (120V)/10A (240V)
- 2000W Output, dual redundant power supplies

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

Certifications

- UL, CSA, CE



*Specifications subject to change