

Independence IDX 90 | 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 90 provides exceptional value and performance for small and medium complexity visual systems with up to 8 channels. IDX 90 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 90 shares many of the architectural features of the flagship IDX 9000 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 9000, the smaller IDX 90 offers a choice of the most powerful Ampere series GPUs, combined with a reliable enterprise-grade Intel Xeon-based server platform. IDX 90 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 90 comes neatly packaged in a compact 4U-high case containing the entire IG system. IDX 90 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*

Optimized Support for Quantum3D's MANTIS Image Generator Software

- Synchronized and correlated multichannel support
- CIGI 2.0, 3.x and 4.0 host interface
- FAA Level D capable
- Large range of optional plugins, including:
 - Advanced weather & marine effects
 - Runway effects & global airports
 - Support for both proprietary and CDB terrain databases
 - Sensor support for SWIR, MWIR, LWIR, NVG simulation/stimulation and TV channels

World-Wide Database (WWDB)

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

OS

- Microsoft Windows 10 LTSC

Chassis

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

Graphics

- Up to 4 NVIDIA Quadro RTX A4000, A5000, A6000 GPUs

CPU

- Dual Intel Xeon Scalable 8 Core (Total 16 Cores)

Storage

- 2x 500 GB Enterprise 2.5" SATA SSDs in RAID 1 (OS)
- 2 x 8TB Enterprise 3.5" SATA HDDs in RAID 1 (Data)
 - Larger data storage can be configured by request
- Optional 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 10GBe LAN (host interface + general use)
- 4x USB 3.0 + 2x USB 2.0
- 7.1 HD Audio
- DisplayPort each GPU

Certifications

- UL, CSA, CE



*Specifications subject to change