

## Independence IDX 900 | Image Generator



### Space saving. Cost saving. The new IG from Quantum3D.

#### The Independence® Difference

Equipped with Quantum3D's award-winning MANTIS® software, the Independence IDX 900 provides exceptional value and performance for small and medium complexity visual systems with up to 16 channels. IDX 900 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 mid-level model in the Independence IG series, the IDX 900 shares many of the architectural features of the flagship IDX 9000 model but is design-optimized for applications which require 5-8 GPUs. It can drive up to 8 full-performance 4K 60Hz. display channels, or up to 16 display channels when GPUs are in the 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 900 also offers the same robust hardware video channel synchronization technology as our larger systems.

The IDX 900 comes neatly packaged in a dense 4U-high case containing the entire IG system. IDX 900 can either be mounted in a standard 19" rack with plenty of room left for other customer equipment or IDX900 can be populated into customers' existing 19 inch rack with 4U space or can be purchased with a rack if needed.

\* All channels must be the same resolution.

## 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

### I/O

- 2x 10GBe LAN (host interface + general use)
- 4x USB 3.0 + 2x USB 2.0
- DisplayPort on each GPU

### Certifications

- UL, CSA, CE

### Graphics

- Up to 8 NVIDIA Quadro RTX A4000, A5000, A6000 GPUs

### CPU

- Dual Intel Xeon Scalable 16 core (Total 32 core)

### Storage

- 2x 500 GB Enterprise 2.5" SATA SSDs in RAID 1 (OS)
- Up to 6 x 2TB Enterprise 2.5" SATA HDDs in RAID 10 (Data)
  - Larger data storage can be configured by request

### Power

- 4x 2000W Redundant Power Supplies with PMBus
- Total Output Power
  - 1000W: 100 – 120Vac
  - 1800W: 200 – 220Vac
  - 1980W: 220 – 230Vac
  - 2000W: 230 – 240Vac
  - 2000W: 200 – 240Vac (UL/CUL only)

### Cooling

- Active Cooling via 8 Hot-swap 92mm fans

### Chassis

- 4U Rackmount
- 7.0" H x 17.2" W x 29" D (178x437x737)



\*Specifications subject to change