



COMPUTING SYSTEM COMPONENTS



- ACQUISITION COMMAND AND CONTROL
- NODAL DOWNLOAD AND TRANSCRIPTION
- DATA QC

ix™ COMPUTING SYSTEM COMPONENTS

SPM STANDARD RACK



FEATURES

- Standard offering of Seismic Processor Module (SPM) for G3i® HD, Hawk® and Quantum®
- High end multi-processor workstation technology
- Redundant high capacity internal hard disk drives
- Support for up to four external monitors
- SEG output data formats (SEG-D v2.1, v3.0 or SEG-Y Rev 0)

SPECIFICATIONS*

RACK

System Capacity:	300,000 ch (G3i HD) >60,000 ch (Quantum), 20,000 channels (Hawk)
Power and Voltage:	1650 W, 90 to 240 VAC
Size:	54.1 cm x 62 cm x 75.4 cm (21.3" W x 24.4"H x 29.7"D)
Weight:	186 Kg (410 lbs)
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C

SPM

Processors:	Intel Xeon (minimum of 80 cores)
Memory:	384 GB
Internal Storage:	24 TB
Connectivity:	1, or 10GbE Ethernet, USB 3.0
Other Interface Support:	mSAS, Fiber Channel

UPS

Power Input:	80- 265 VAC
Power Frequency:	47- 440 Hz
Capacity:	3000 VA

*INOVA reserves the right to change specifications without notice

** Operating at extreme temperatures for an extended period of time may cause equipment malfunction

SPM HS RACK



FEATURES

- High Speed offering of Seismic Processing Module (SPM) for G3i HD
- Includes Quality Control Module (QCM) for In-Field Data QC
- High end multi-processor workstation technology
- Redundant high capacity internal hard disk drives
- Support for four external monitors
- SEG output data formats (SEG-D v2.1, v3.0 or SEG-Y Rev 0)

SPECIFICATIONS*

RACK

System Capacity:	65,000 channel active patch G3I HD
Power and Voltage:	1650 W, 90 to 240 VAC
Size:	54.1 cm x 62 cm x 75.4 cm [21.3" W x 24.4" H x 29.7" D]
Weight:	186 Kg (410 lbs)
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C

SPM/QCM

Processors:	Intel Xeon (minimum 80 cores)
Memory:	384 GB
Rack Storage:	24 TB SSD RAID, 264 TB RAID
Optional External Storage:	1PB RAID configuration
Connectivity:	1, 10, or 40 GbE Ethernet, USB 3.0
Other Interface Support:	mSAS, Fibre Channel

UPS

Power Input:	80- 265 VAC
Power Frequency:	47- 440 Hz
Capacity:	3000 VA

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TPM /CPM STANDARD RACK



FEATURES

- Standard offering of Transcription Processing Module (TPM) or Combined Processing Module (CPM) for Hawk or Quantum
- High end multi-processor workstation technology
- Redundant high capacity internal hard disk drives
- Support for four external monitors
- SEG output data formats (SEG-D v2.1, v3.0 or SEG-Y Rev 0)

SPECIFICATIONS*

RACK

System Capacity:	>60,000 ch (Quantum), 20,000 channels (Hawk)
Power and Voltage:	1650 W, 90 to 240 VAC
Size:	54.1 cm x 62 cm x75.4 cm (21.3" W x 24.4"H x 29.7"D)
Weight:	186 Kg (410 lbs)
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C

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TPM

Processors:	Intel Xeon (minimum 80 cores)
Memory:	384 GB
Rack Storage:	24 TB SSD RAID,96-504 TB RAID
Optional External Storage:	1PB RAID configuration
Connectivity:	1, 10, or 40 GbE Ethernet, USB 3.0
Other Interface Support:	mSAS, Fibre Channel

UPS

Power Input:	80- 265 VAC
Power Frequency:	47- 440 Hz
Capacity:	3000 VA

SPM/CPM /TPM LITE



FEATURES

- Functions as SPM, CPM or TPM for G3i HD, Hawk or Quantum
- Redundant high capacity internal hard disk drives
- Support for one external monitor
- SEG output data formats (SEG-D v2.1, v3.0 or SEG-Y Rev 0)

SPECIFICATIONS*

System Capacity:	1 Baseline (G3i HD), 4000 channels 3000 Channels Quantum 1500 Channels Hawk***
Processors:	Intel i7
Memory:	32 GB
Internal Storage:	3.8 TB SSD, RAID
Optional External Storage:	N/A
Connectivity:	1 and 10 GbE Ethernet, USB 3.0
Other Interface Support:	N/A
Power and Voltage:	190W, 90 to 240 VAC
Size:	50.8 cm x 35.1 cm x 14.0 cm (20.0"W x 13.8"H x 5.5" D)
Weight:	10.5 kg (23.1 lbs)
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C

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SPM/CPM/TPM ULTRA-LITE



FEATURES

- Functions as SPM, CPM or TPM for small channel count Hawk or Quantum
- Support for one external monitor
- SEG output data formats (SEG-D v2.1, v3.0 or SEG-Y Rev 0)
- Dual battery redundancy

SPECIFICATIONS*

System Capacity:	300 Channels Quantum 150 Channels Hawk***
Processors:	Intel i5
Memory:	16 GB
Internal Storage:	1.9 TB SSD
Optional External Storage:	N/A
Connectivity:	1 GbE Ethernet, USB 3.0
Other Interface Support:	N/A
Power and Voltage:	90W, 90 to 240 VAC
Size:	34.8 cm x 4.6 cm x 28.7 cm (13.7"W x 1.8"H x 11.3"D)
Weight:	3.0 kg (6.6 lbs)
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C

*** Additional storage devices needed

DATA PROCESSING AND DELIVERABLE STORAGE

EXTERNAL RAID ARRAY



FEATURES

- Suitable for use as a processing storage device
- Pre-installed in TPM or CPM standard rack assembly
- Expandable, can be connected to two additional units for a total capacity of 1.3 PB (requires additional rack assemblies)
- Disk drive redundancy to ensure data safety

SPECIFICATIONS*

Compatibility:	SPM HS Rack, TPM/ CPM Rack
Capacity:	220 to 672 TB
Interface:	SAS 12
Power:	100-240 VAC
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10°C to +60°C

NETWORK ATTACHED STORAGE (NAS) 8 BAY



FEATURES

- 8 bay Network Attached Storage device
- Suitable for Lite and Standard systems
- Data storage from SPM, TPM or CPM
- Can be used as a deliverable storage device on Standard and Lite systems, or data processing device on Lite systems

SPECIFICATIONS*

Compability:	Lite and Standard models
	Standard as external deliverable storage
	Lite as data processing device
Capacity:	72 TB
Interface:	1 or 10 GigE
Power:	100 -240 VAC
Operating Temperature:	0 °C to +45 °C**
Storage Temperature:	-10 °C to +60 °C
Accessories:	Transport case included

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DATA PROCESSING AND DELIVERABLE STORAGE

NETWORK ATTACHED STORAGE (NAS) 4 BAY

USB DRIVE



FEATURES

- 4 bay Network Attached Storage device
- Suitable for Lite and Standard systems
- Data storage for SPM, TPM or CPM
- Can be used as a deliverable storage device on Standard and Lite systems, or data processing device on Lite systems

FEATURES

- Suitable as a deliverable storage drive for TPM or CPM Lite and Ultra-lite models
- Universal USB 3.0 interface

SPECIFICATIONS*

Compatibility : Lite and Standard TPM models

Capacity: 24 TB

Interface: 1 or 10 GigE

Power: 100-240 VAC

Operating Temperature: 0 °C to +45 °C**

Storage Temperature: -10 °C to +60 °C

Accessories: Transport case included

SPECIFICATIONS*

Compatibility: Lite and Ultra-lite models
 Lite as external deliverable storage
 Ultra-Lite as data processing device

Capacity: 12 TB

Interface: USB 3.0

Power: 100-240 VAC

Operating Temperature: 0 °C to +45 °C**

Storage Temperature: -10 °C to +60 °C

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DOWNLOAD AND CHARGE RACKS STANDARD RACK FOR QUANTUM



FEATURES

- Integrated Quantum data download and battery charging
- Suitable for TPM and CPM Standard, TPM Lite or CPM Lite Systems
- Supports up to 48 Quantum nodes

SPECIFICATIONS*

Capacity:	48 Quantum units
Interface:	Ethernet
Power and Voltage:	1350W, 110 to 240 VAC
Operating Temperature:	0 °C to +40 °C
Storage Temperature:	-15 °C to +50 °C

PHYSICAL

Size:	203.2 cm x 56.64 cm x 39.37 cm
	80" x 22.3" x 15.5
Weight :	95.8 kg (211 lbs)

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PORTABLE RACK FOR QUANTUM



FEATURES

- Integrated Quantum data download and battery charging
- Suitable for TPM or CPM Ultra-lite Systems
- Supports up to 16 Quantum nodes
- Portable for easy transportation and setup

SPECIFICATIONS*

Capacity:	16 Quantum Units
Interface:	Ethernet
Power and Voltage:	600W, 110 to 240 VAC
Operating Temperature:	0 °C to +40 °C
Storage Temperature:	-15 °C to +50 °C

PHYSICAL

Size:	76.2 cm x 38.1 cm x 50.8 cm
	30" x 15" x 20"
Weight:	17.5 kg (38.6 lbs)

TWO-SLOT CRADLE - QUANTUM



FEATURES

- Integrated Quantum data download and battery charging
- Suitable for TPM or CPM Ultra-lite Systems
- Supports up to 2 Quantum nodes
- Portable for easy transportation and setup

SPECIFICATIONS*

Capacity:	2 Quantum Units
Interface:	Ethernet
Power and Voltage:	600W, 110 to 240 VAC
Operating Temperature:	0 °C to + 40 °C
Storage Temperature:	-15 °C to +50 °C

PHYSICAL

Size:	76.2 cm x 38.1 cm x 50.8 cm 30" x 15" x 20"
Weight:	17.5 kg (38.6 lbs)

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QC TOOL - QUANTUM

The QC Tool can quickly acquire information from deployed Quantum via Bluetooth technology requires minimal user-interaction allowing station QC and status information to be collected efficiently while moving through the spread.



FEATURES

- Android Operating System
- High-performance all-in-one integrated GPS device
- Ultra-rugged form factor
- Integrated GPS (GPS/GLONASS/Galileo/BeiDou)
- Internal rechargeable battery
- Touchscreen 15.2 cm (6 inch) HD display
- Data synchronization with iX1 software

SPECIFICATIONS*

Operating temperature:	-20 °C to +55 °C (-4 °F to +131 °F)
Storage Temperature:	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity:	0% to 95% (non-condensing)
Water:	IP67, IEC 60529
Drop:	6 drops from 4.6 ft. (1.4 m)
Altitude:	15,000 ft
Size:	19.2 cm x 9.1 cm x 1.45 cm (7.5" x 3.5" x 0.5")
Weight:	380 g (13.4 oz), with extended battery