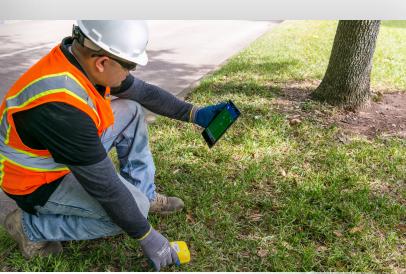
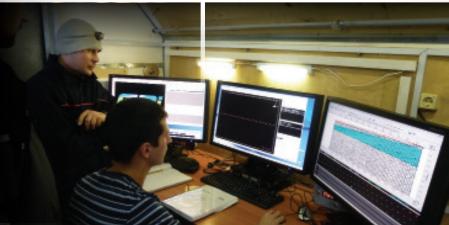




COMPUTING SYSTEM COMPONENTS







- 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		SPM	
System Capacity:	300,000 ch (G3i HD)	Processors:	Intel Xeon (minimum of 80 cores)
	>60,000 ch (Quantum),	Memory:	384 GB
	20,000 channels (Hawk)	Internal Storage:	24 TB
		Connectivity:	1, or 10GbE Ethernet, USB 3.0
Power and Voltage:	1650 W, 90 to 240 VAC	Other Interface Support:	mSAS, Fiber Channel
Size:	54.1 cm x 62 cm x75.4 cm	UPS	
	(21.3" W x 24.4"H x 29.7"D)		

Power Input:

Capacity:

Power Frequency:

80-265 VAC

47-440 Hz

3000 VA

Weight: 186 Kg (410 lbs)

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

Storage Temperature: -10 °C to +60 °C

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^{*}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 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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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

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



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)

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

SPECIFICATIONS*

cause equipment malfunction

RACK		ТРМ		
System Capacity:	>60,000 ch (Quantum),	Processors:	Intel Xeon (minimum 80 cores)	
	20,000 channels (Hawk)	Memory:	384 GB	
		Rack Storage:	24 TB SSD RAID,96-504 TB RAID	
Power and Voltage:	1650 W, 90 to 240 VAC	Optional External Storage:	1PB RAID configuration	
Size:	54.1 cm x 62 cm x75.4 cm	Connectivity:	1, 10, or 40 GbE Ethernet, USB 3.0	
	[21.3" W x 24.4"H x 29.7"D]	Other Interface Support:	mSAS, Fibre Channel	
Weight:	186 Kg (410 lbs)	UPS		
Operating Temperature:	0 °C to +45 °C**	Dower lanut	80- 265 VAC	
Storage Temperature:	-10 °C to +60 °C	Power Input:		
		Power Frequency:	47- 440 Hz	
*INOVA reserves the righ	t to change specifications without notice	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

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 reduancy

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

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^{***} Additional storage devices needed



DATA PROCESSING AND DELIVERABLE STORAGE EXTERNAL RAID ARRAY NETWORK ATTACHED STORAGE (NAS) 8 BAY





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

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*

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

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*

Compability: 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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DATA PROCESSING AND DELIVERABLE STORAGE 3592 60F 2018 TAPE DRIVE LTO 8 2017 TAPE DRIVE

SPECIFICATIONS* SPECIFICATIONS*

Compatibility: Standard TPM or CPM Compability: Lite and Standard models

Standard as external deliverable

storage

Lite as data processing device

Capacity: 20 TB Capacity: 12 TB

Interface: Fiber Channel Interface: mSAS

Power: 57W Power: 31W

Operating Temperature: 10 °C to +45 °C**

Operating Temperature: 10 °C to +45 °C**

Storage Temperature: 0 °C to +40 °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 x39.37 cm

80" x 22.3" x 15.5

Weight: 95.8 kg (211 lbs)

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 transporation 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)

^{*} INOVA reserves the right to change specifications without notice



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

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