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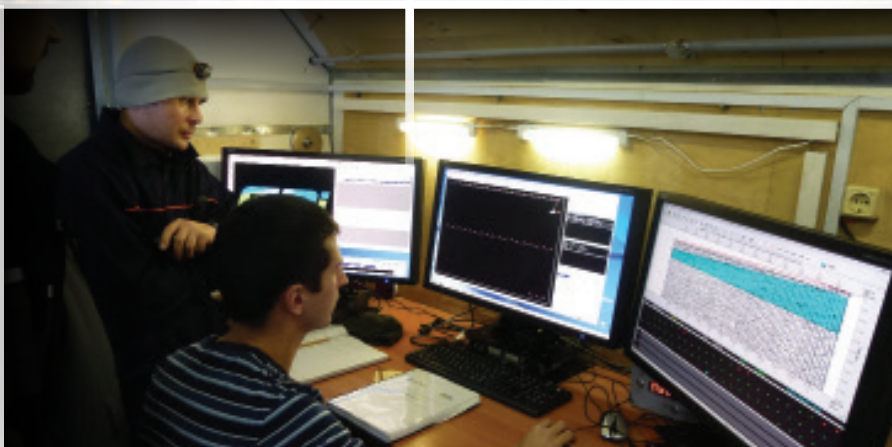
- ACQUISITION COMMAND AND CONTROL
- NODAL DOWNLOAD AND TRANSCRIPTION
- DATA QC

iX1® 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 x75.4 cm
	(21.3" W x 24.4"H x 29.7"D)
Weight:	186 Kg (410 lbs)
Operating Temperature:	0 °C to +30 °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

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 +30 °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

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 +30 °C
Storage Temperature:	-10 °C to +60 °C

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

*INOVA reserves the right to change specifications without notice

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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 +30 °C
Storage Temperature:	-10 °C to +60 °C

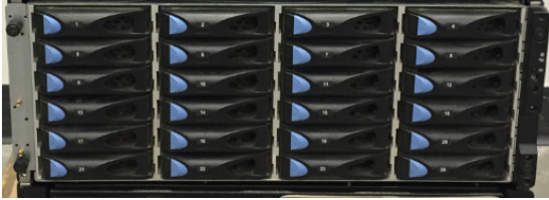# SPM/CPM/TPM ULTRA-LITE

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 +30 °C
Storage Temperature:	-10 °C to +60 °C

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

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 +30 °C
Storage Temperature:	-10 °C to +60 °C

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 +30 °C
Storage Temperature:	-10 °C to +60 °C
Accessories:	Transport case included

![INOVA logo]

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 +30 °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 +30 °C
Storage Temperature:	-10 °C to +60 °C

DATA PROCESSING AND DELIVERABLE STORAGE

3592 60F 2018 TAPE DRIVE

SPECIFICATIONS**

Compatibility:	Standard TPM or CPM
Capacity:	20 TB
Interface:	Fiber Channel
Power:	57W
Operating Temperature:	10°C to +30 °C
Storage Temperature:	0°C to +40 °C

LTO 8 2017 TAPE DRIVE

SPECIFICATIONS**

Compability:	Lite and Standard models
	Standard as external deliverable storage
	Lite as data processing device
Capacity:	12 TB
Interface:	mSAS
Power:	31W
Operating Temperature:	10°C to +30 °C
Storage Temperature:	-10 °C to +60 °C

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)

QC TOOL - QUANTUM

The QC Tool can quickly acquire information from deployed

Quantum via Bluetooth technology requires minimal user-in-

teraction 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