i-kon™ II

THE POWER OF INNOVATION

Orica's Next Generation i-kon™ II Electronic Blasting System is the culmination of 20 years of laboratory testing and in-field use. Developed specifically for use in high value and complex blasts at large surface and underground operations, i-kon™ II continues to set the industry benchmark in Electronic Blasting Systems.

GREATER RELIABILITY

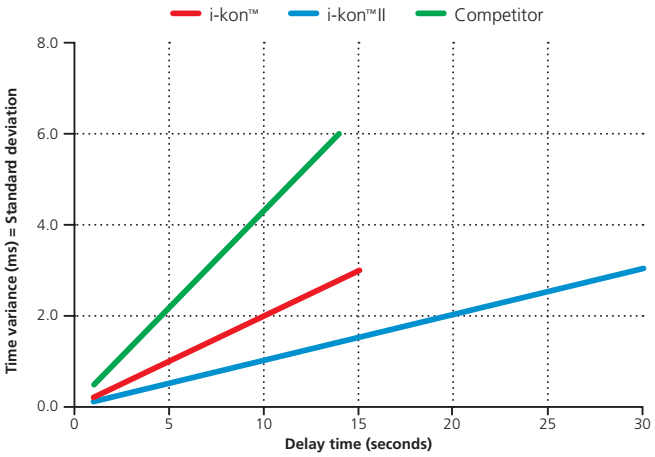
- Stronger back-signal (compared to i-kon™) means the detonator is able to overcome more capacitance on the line.
- ASIC and PCB developed in conjunction with an Aerospace partner that normally develops chips for satellite and space exploration equipment, to achieve reliability by design.

GREATER PRECISION

- Timing precision has improved by a factor of two from 0.01% to 0.005%, reducing the chance of firing out of order and increasing the ability to control exactly when the detonators will detonate.
- An increase in maximum delay time from 15 to 30 seconds allows very different types of blasting to be designed – both in large underground and more sophisticated surface mining.
- Improved timing precision enables these much longer delays while retaining individual hole timing.

GREATER FLEXIBILITY

- Blaster 3000 can operate as a Single, Master, Controller, Remote, Slave or Repeater, providing greater flexibility.
- Up to seven Blaster 3000s (in Remote, Synchronised or Remote Synchronised mode) can fire up to 16,800 detonators in a single blast.
- Repeater function allows increased distance between Controller and Remote box. Enables non line of site blasts between Controller and Remote.
- Multi-functional Blaster 3000 can turn itself into a wireless transmitter or wireless receiver in either Single or Synchronised mode.
- No need to stock different Blasters for different blasting configurations. The Blaster 3000 can do them all.



Comparison of timing precision between i-kon™, i-kon™ II and a major competitor. i-kon™ II doubles the maximum delay time of i-kon™ whilst maintaining the same time variance considered best in the industry.

Initiating blast with Blaster 3000.

i-kon™ II
Electronic Blasting System

ORICA

orica.com

i-kon™ II
THE NEXT GENERATION

Logger dock makes pre-logging quicker and easier.

SHOTPlus™ 5 is the cornerstone of i-kon™ II.

GREATER CONVENIENCE AND EFFICIENCY

- The new connector features two harness wire slots enabling splicing and connections to other legwires.
- A Logger dock makes pre-logging quicker and easier with no need to open the connector.
- The duplex harness wire features a single wire, single slot, increasing the speed at which the blast crew can connect up the detonators.
- Wire length encoded in ID number. This is beneficial in decked blasts as it helps the user ensure which deck is being logged.
- Fast programming time of less than 2 minutes per Logger (200 detonators) with firmware upgrade.
- Blaster 3000 features a bigger, colour LCD display improving ease of use on site, increased memory to store blast data. USB interface enables post-blast data to be downloaded and new firmware to be uploaded via a USB memory stick.

IMPROVEMENTS THAT MATTER MOST TO YOU

Through our ongoing investment in research and the development of new technology, we are continually working to make our products safer, more reliable and more efficient. The i-kon™ II system is designed to help our customers to achieve better outcomes including:

- Improved fragmentation
- Wall control
- Operational efficiency
- Vibration control
- Minimised coal loss
- Improved mine safety.

These outcomes can be further enhanced when used in combination with Orica's range of blasting products and tailored services.

BUILDING ON THE BEST OF i-kon™

The i-kon™ II system retains many of the key features and capabilities of i-kon™ to enable your operation to achieve optimal blast results.

- The Basis of Safety has not changed. Dual voltage technology allows all operations on the blast pattern to be done at an inherently safe low voltage.
- Blast design using the industry-leading and recently enhanced SHOTPlus™ 5 design package remains a cornerstone of i-kon™ II.
- Multiple Loggers are used to break the blast into several small, independent circuits, greatly increasing the system's resistance to electrical leakage and to extraneous electrical energy on the wiring. This improves efficiency by enabling a blast pattern to be logged by multiple operators, simultaneously.
- Multiple modes of logging including SHOTPlus™ 5 mode, autoLog and pre-logging remain, with easier connections.
- CEBS (Centralised Electronic Blasting System) for underground applications and SURBS (Surface Remote Blasting System) for surface applications facilitates easy remote blasting from a convenient and safe control point.
- Encrypted remote communications ensure that the detonators can only be controlled from the designated Blaster, providing greater security and safety.
- The superior copper zinc shell of i-kon™ has been retained with i-kon™ II, reducing failure due to dynamic shock in the hole.
- A choice of legwire means that users can select the legwire suitable for their mining conditions: standard wire for many underground and coal mines and i-kon™ RX for most metal mines.
- Full programmability of the detonator facilitates inventory reduction and simplifies regulatory conformance.