ranger™

THE ULTIMATE DIGISHOT®
BLAST INITIATION SYSTEM
DESIGNED WITH SAFETY AND
PERFORMANCE AT ITS CORE

DYNO®
Dyno Nobel

Introducing Ranger

The new DigiShot Ranger was designed explicitly for the open cut, quarry, civil, and construction industries. It has been vastly improved from its DigiShot 300 predecessor, providing twice the detonator capacity, updated weatherproof enclosure with a built-in antenna for longer range RF up to 1.86 miles, which makes it more robust for quick and easy deployment.

Features

- Fast and simple tag by plan deployment method.

- Minimal training, similar tagging and blasting method.

- Automatic check to ensure the correct number of detonators per channel.

- Detonator energy monitoring right up to the point of blasting.

- Autonomous detection and testing of detonators.

- Programming speed is six times faster.

- Blaster wirelessly controlled through the multi-purpose CE4 Tagger.

- Two channels - 300 detonators per channel, for a total of 600 detonators per Ranger.

Benefits

Plan Mode:

- Pre-designed blast plans containing location and timing created through the ViewShot® application via PC/tablet or DigiShot layout are downloaded to the CE4 Tagger.

- The user can define a tagging path that creates a detonator list in the tagging sequence suitable for large-scale blasts. The Tagger writes the unique ID and timing into the detonator. The tagging path is flexible, allowing adjustments to the plan during tagging and the addition of new blast holes.

DigiShot Mode:

- Conventional tagging mode utilizes location-based tagging with sides, rows, hole numbers, and detonator numbers.

- This option allows the user to tag the detonators' location and later send the delays to the detonators via the Tagger when all detonators are connected to the harness wire.

Dyno Nobel is striving towards excellence in electronic initiation. Our goal is to deliver world-class safety, the latest technology, and consistent quality, resulting in improved loading and fragmentation, to ensure sustainable mining today and into the future.

ranger™ DEPLOYMENT

BLAST DESIGN

digishot®
viewshot®

1

VIA USB OR WIFI

DOWNLOAD PLAN TO TAGGER

2

detnet

ON BENCH TAGGING USING THE CURRENT DIGISHOT MODE OR PLAN MODE UTILIZING THE VIEWSHOT BLAST DESIGN TOOL

BASE RANGER

4

BLAST
detnet
BLAST

TAP TO BLAST

1.86 MILES LINE OF SITE

VIA RF

3

TAP TO ARM

ACTIVATE
detnet
ACTIVATE

digishot®

BENCH RANGER

MAX 600 DETS

ViewShot

ViewShot is a user-friendly and straightforward application that can run on a tablet, PC, or mobile phone. ViewShot can design a simple blast on the bench, which can be downloaded onto the CE4 Tagger. The planned tagging method is now accessible to the small-scale mine with the same tagging and blasting efficiency that was previously only available to large mining operations.
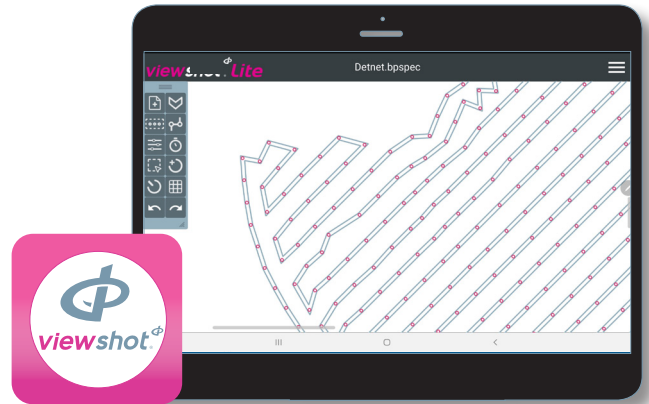
The Ranger

This is a multi-purpose device used as a Bench Ranger and a Base Ranger and controls the entire blast. The Ranger limits the user interface through automatic detonator detection, testing, and fast programming.

Wirelessly controlled by the CE4 Tagger or tablet*, the Ranger has two channels that can connect up to 300 detonators each, giving a total capacity of 600 detonators per Ranger.

The Ranger boasts a unique and robust design, with a built-in long-range antenna that can handle the harshest mining conditions

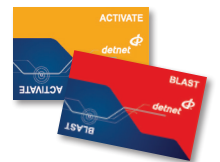The blast is initiated with wireless NFC (Near Field Communication) Blast Cards.

CE4 Tagger

The CE4 Tagger is a single device used on-bench for tagging, testing, timing, leakage check, and final troubleshooting before leaving the bench. The Tagger is lightweight with easy-to-use menu functions and provides excellent sunlight visibility. Approximately 10 hours battery life supports USB and wireless charging. It is equipped with short-range Wi-Fi to communicate with the DigiShot Ranger for programming, arming, and firing.

Blast Cards

- Uses Near Field Communication (NFC) to interact with the Ranger wirelessly.

- Encrypted blast commands and RF settings are stored in the card.

- Blast Cards are password-protected to ensure safe blasting.

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