

FIELD OF USE

In real time, at the base of the face, profile, implant, display and correct a mine blasting.

Several points are spotted on a same vertical line of the face and measured with the laser rangefinder. The PDA, connected to the laser, records the coordinates of each measured point and automatically displays the profile of the face. The operator can then act directly and adjust the location of the hole to be drilled there.

DESCRIPTION OF EQUIPMENT

Kit composition Profiler LASER - PDA

- a transport case;
- a laser rangefinder with inclinometer, serial port, sturdy and watertight with an IP54⁽¹⁾ protection ;
- a PDA easy to use with an IP54⁽¹⁾ protection ;
- a charger (220V adapter);
- a serial connection cable to connect the laser and the PDA ;
- a USB cable to transfer data between PDA and computer (PC) ;
- a software to edit and optimize profiles;
- a instruction manual.

⁽¹⁾ IP54 = protected against dust and splashing water from all directions



Laser Profiler



PDA

Essential characteristics of devices

The Laser Profiler

- Weight : 220 g
- Dimensions : 12 cm x 5 cm x 9 cm
- Communication : Serial through RS232 and Bluetooth
- Precision measurement : +/- 0,10 m à 30 m
- Angle of precision : +/- 0,25°
- Power supply : 3,0 V - 2 alkaline AA , NiMH, Li or batterie CRV3
- Battery life : ~ 20 hours continuously
- Use temperature : - 20°C to + 60°C

The PDA

- Weight : 279 g with batteries
- Dimensions : 14,6 cm x 7,9 cm x 3,0 cm
- Communication : USB 2.0, Wifi and Bluetooth v2.0
- Operating system : Microsoft Windows CE 5.x
- Memory : 256 MB SDRAM (volatile) 256 MB NAND (non-volatile) [extension SD card storage]
- Microprocessor : Freescale™ i.MX31 (533 MHz)
- Screen : TFT - 240 x 320 pixels
- Battery life : Batterie 3,7 V Li-ion - 2400 mAh
- Use temperature : - 10°C to + 50°C

September 2016