

## Save Lives : Save Reputation : Prevent Asset Strikes



\*Designed for



AUSTRALIAN MADE



## Introducing the Safety Shovel



The Safety Shovel provides the ideal real-time detection of metal and power subsurface. It allows for the detection of metallic objects (water, gas, communications etc) and electric circuits underground.

This tool is ideal for the prevention of harmful **asset strikes**.

The industry has experienced unprecedented demand for organisations to protect their workers from known and unknown risks.

With combined legislative demands on Directors and

Managers and Work Safe fines crippling those who don't take safety seriously, the Safety Shovel is your protective shield against **asset strikes**.

Although BYDA is a great start, inaccuracies increase risk to staff and assets.

The Safety Shovel is designed to be used as a supportive tool to protect workers from harmful events that cause human and infrastructure risk.

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**simultaneous  
detection of  
metallic objects  
& electrical  
circuits**

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Detect Subsurface  
Metal, Pipes,  
Cables etc



Detect Electrical  
Cables Subsurface,  
Single & 3 Phase.



Real Time Visual  
alerts for Both  
Metal & Electrical  
Detection



## 1. General System Features

The Safety Shovel is designed to be used as a supportive tool to protect workers from harmful events, resulting from **asset strikes**. Although best endeavours are deployed to prevent infrastructure strikes, records that are inaccurate deliver risk that cannot be minimised without advanced tooling. The Safety Shovel provides a functional real time detection tool to protect workers by simultaneously detecting Metal objects & Electrical cables (EMF) under the ground (subsurface). With alignment to

Australian excavation standards the Safety Shovel allows workers to operate within the **Exclusion Zone** and detect materials and cables that if damaged, would result in a major OHSE event (Asset Strike).

Typical assets detected include, water and gas pipes, communications cables, and **LIVE power cables**. The Safety Shovel compliments the efforts of BYDA (Before You Dig) and alerts excavation teams of potential danger.

### 1.1 System Characteristics

Item	Feature
Weight	3.5kg
Length	1.59m
Shovel Dimensions	280x 210mm
Metallic LED	Green Flashing
EMF LED	Range sensitive LED Colour change Yellow to Red
Battery Life	16+ hours (See note 1)
Battery Recharge time	5 hours (Full Charge)
Sleep mode activated	10 minutes of inactivity
IP Rating	Designed for IP 67
Connectivity	Customise settings

Note 1: Battery life is dependent on the detection frequency of metallic and EMF events. Stated battery life is an estimate for normal field activities.

### 1.2 Metal Detection Characteristics

Metallic Type	Detection Distance (mm)
Lead	0 -300
Steel	0 -300
Aluminum	0 -300
Cast metal	0 -300
Copper	0 -250

Note 2: Metals purity and density may vary detection ability.

### 1.3 EMF Detection Characteristics

Voltage type	Voltage (range)	Detection Distance (mm)
AC (50Hz 60Hz)	110-66KV AC	0- 500

Note 3: AC Current may vary the detection of EMF

