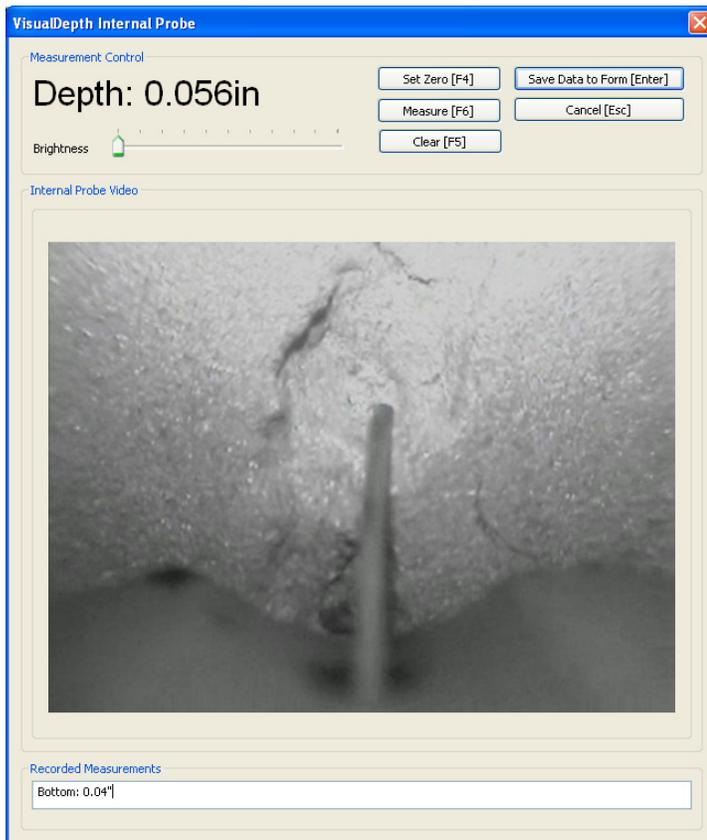


## Introduction

VisualDepth for VisualPlus 3 is an accessory that allows you to precisely measure and record the depth of internal and external corrosion pits in high pressure SCUBA cylinders.



## Internal Probe

The VisualDepth internal probe contains a spring loaded gauge wire coupled to a linear encoder, a video camera, a light source, and a probe positioning system. The VisualDepth main module measures travel of the gauge wire when it is pressed against a reference surface and compares it to travel when the gauge wire is inserted into a pit. The difference between two readings is displayed in VisualPlus software as pit depth. Two reference prongs are used to make sure that the gauge wire travel is measured from a known location. The internal probe can be used to measure pit depths at the bottom, sidewalls, and part of the cylinder neck.



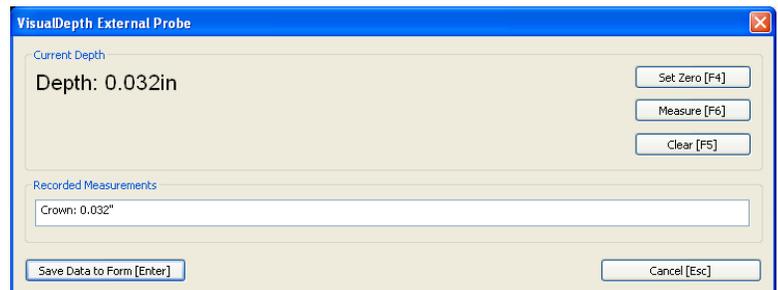


## External Probe

The VisualDepth external probe is a simplified handheld version of the internal probe. Two prongs are used to locate the reference surface and the central gauge wire, coupled to a linear encoder, is used to measure the pit depth. The external probe can be used to quickly measure external pits anywhere on the cylinder surface as pit depth.

## Features

- Internal/External pit depth measurement.
- Automatic recording of measurement into VisualPlus software visual inspection form.
- Automatic pass/fail based on depth measurement and cylinder type for supported cylinders.
- Probe resolution: 0.0014", measurement range: 0.15" (3.8mm)
- Probe accuracy: +/-0.003"
- Internal probe contains an integrated video camera and a light source for accurate probe tip placement. The probe angle is adjustable to cover bottom, sidewalls and part of the cylinder neck.
- Internal probe diameter (including swivel mechanism) is 0.940in (23.9mm) to be used with SCUBA 3/4-14NPSM thread or larger cylinders.
- Footswitch operated Set Zero and Measure functions.



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