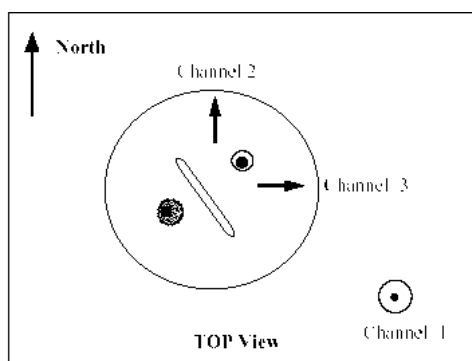


ภาคผนวก ช

Mark Products L4-3D Seismometer

ภาพประกอบ 5.4 Mark Products L4-3D เครื่องตรวจวัด (ด้านบน)

**Channel Order**

(positive voltage on DAS channel mean
ground moved in given direction)

- 1 Up
- 2 North
- 3 East

Sensitivity

171 volts / meter /second

Typical DAS parameters:

Gain 32
Cal Amplitude 1.0 Volt
Cal Interval 5 seconds
Cal Step Size 6 seconds

Physical Characteristics:

Size cylinder 30 cm diameter,
 30 cm high

Weight 12 kg.

Shipping Weight 40 lbs

Size 12x12x24 inches
(wooden Gbox)

Power consumption

None, passive sensor

Frequency Response:

Natural Freq. 1.0 Hz
Damping 0.707 critical
Zeros two at zero
Poles $-4.44 + 4.44 i$
 $-4.44 - 4.44 i$