Fighting Disease with Electronics
NIHON KOHDEN

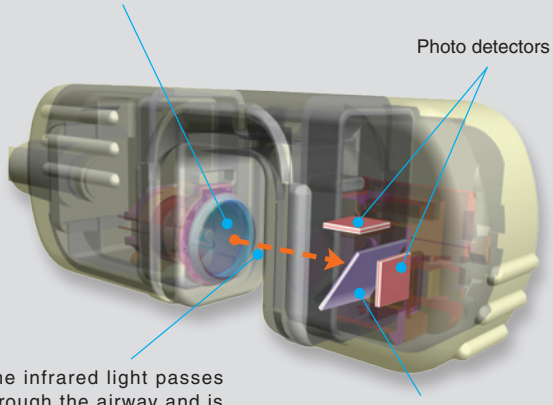
cap-ONE
ORAL NASAL EXPIRATION

cap-ONE Information
Vol.1

Monitor Your Patient with Reliable cap-ONE Mainstream CO_2 Sensor

cap-ONE CO_2 sensor

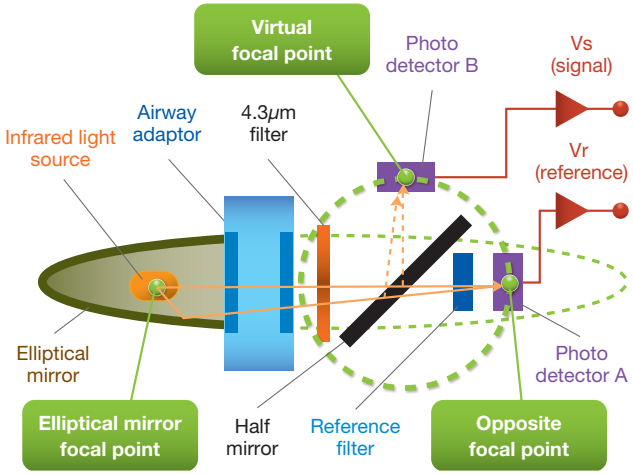
A light source is positioned at the focal point of an elliptical mirror



The infrared light passes through the airway and is absorbed by the expired CO_2

A half mirror splits the infrared light into two beams for the signal and reference

Advanced miniaturization of infrared absorption spectroscopy system



The infrared light is split by a half mirror and concentrated into two photo detectors. Photo detector A at the opposite focal point of the elliptical mirror detects the reference beam. Photo detector B at a virtual focal point 90° from photo detector A detects the signal beam from the half mirror.

- Weighs only 4 grams
- IPX7 protection against immersion in water
- Withstands a 1.22 meter drop and meets MIL-STD-810F transit drop requirements

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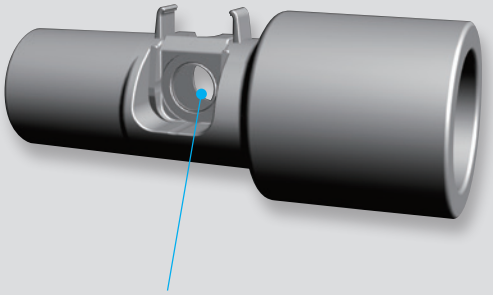
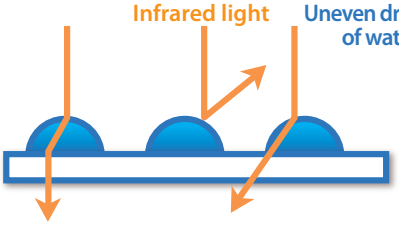
The Optimal Capnography Solution for Respiratory Management

Airway adaptor with anti-fogging membrane



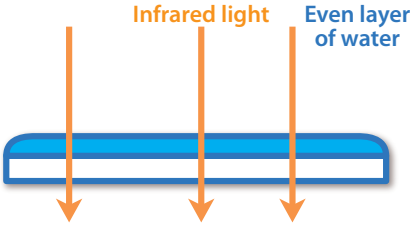
Infrared light passes through a transparent film with a unique anti-fogging membrane

Normal membrane



Droplets of water cause uneven reflection and refraction of light which causes inaccurate CO_2 measurement. Traditional CO_2 sensors eliminate the water droplets with a window heater.

Anti-fogging membrane



Nihon Kohden's anti-fogging membrane forms a smooth layer of water which allows accurate CO_2 measurement with no heater. This reduces power consumption and sensor weight.

- ✓ **Accurate** for intubated and non-intubated patients
- ✓ **Reliable** even under high humidity conditions
- ✓ **Durable** enough for use in harsh environments
- ✓ **Safe** heaterless system prevents burn injuries

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