The Capnography Extension uses infrared absorption spectroscopy to continuously measure CO₂ values. Designed to work with the Multi-Measurement Server, the Capnography Extension provides real-time CO₂ waveform and numeric values on the IntelliVue patient monitor display. A digital signal processor located in the sensor measures either sidestream or mainstream etCO₂ and awRR for neonatal, pediatric, and adult patients in surgery, in critical care, and during transport within a hospital environment.

Extended capnography information
The Capnography Extension continuously monitors CO₂ concentration during respiration and provides the following information for display on IntelliVue patient monitors:
• CO₂ waveform
• End tidal (etCO₂) numerics
• Inspired minimum (imCO₂) numerics
• Respiration rate (awRR)

Advanced capnography
The Capnography Extension offers significant operational benefits:
• Flexible: Measures either sidestream or mainstream etCO₂, allowing clinicians to choose the most appropriate method for their patient
• Fast response time. A crisp waveform in less than 15 seconds at ambient temperature of 25°C
• Connect and measure. Just 120 seconds from on to full measurement
• Easy connection. No clips or latches
• Continuous. Uninterrupted CO₂ data is uploaded to IntelliVue
• Low maintenance. Routine end-user calibration is not required
• Portable. Attached to the Multi-Measurement Server, the extension can travel with the patient throughout the hospital
Extended applications for capnography
Mainstream etCO₂ expands use of capnography in a variety of clinical situations:
- **Critical care**: Allows the assessment of ventilatory status of both mechanically assisted and spontaneously breathing patients
- **Anesthesia care**: Provides immediate feedback on proper intubation
- **Ventilatory support**: Monitors efficiency of ventilatory support and can be used to indicate ventilator disconnects, possible pulmonary embolism, or insufficient neuromuscular blockade
- **Procedural sedation**: Continuous CO₂ monitoring allows clinicians to assess respiratory changes of spontaneously breathing, non-intubated patients that are often the first signs of hypoventilation, apnea or airway obstruction
- **Cardiac arrest**: Measurement of etCO₂ is recommended for use as an indicator of the effectiveness of cardiopulmonary resuscitation

Wide variety of mainstream and sidestream airway adapters
- **Mainstream**: Philips offers a variety of reusable and single-use airway adapters for intubated adult, pediatric, and neonatal patients.
- **Sidestream**: Innovatively designed single-use accessories for both intubated and non-intubated adults, pediatrics, and infants.

The capnography extension is also compatible with Sidestream CO₂.

**Philips Commitment to Measurement Technologies**
Philips is committed to providing best-in-class standard clinical measurements as well as innovative measurements to support clinicians’ decisions at the patient’s side.

- Maintaining and advancing the performance of existing, widely used standard-of-care measurements
- Investing heavily in research, development, and clinical validation of new, innovative parameters and algorithms
- Working with strategic partners to integrate next-generation measurements and technologies
- Providing interfaces to more than 100 third-party specialty measurement devices through the Philips VueLink module

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