

# PHILIPS AVALON FM50



## ABOUT

The **Avalon FM50** offers external and internal fetal monitoring, and is an intrapartum fetal monitor built for more complex labor and delivery cases. It tracks fetal heart rate noninvasively, even for triplets, and supports direct fetal ECG through an internal scalp electrode when that level of monitoring is needed. It also supports full maternal monitoring, toco, IUP, blood pressure, and oximetry, so clinicians can track the mother and baby from a single unit. Smart Pulse technology provides automated coincidence detection and automatically cross-checks fetal and maternal heart rates. It also connects to hospital networks over serial or LAN and includes a VGA output for an external display. This model is part of the Avalon FM series from Philips which includes the Avalon FM20 and the Avalon FM30.

## FEATURES

**Noninvasive Triplet Monitoring:** Measures fetal heart rate externally for up to three fetuses on a single unit.

**Direct Fetal ECG:** Supports internal fetal heart rate and intrauterine pressure monitoring during labor.

**Smart Pulse Coincidence Detection:** Automatically compares maternal and fetal heart rates to help tell them apart.

**Full Maternal Parameter Set:** Covers toco, IUP, blood pressure, pulse rate, pulse oximetry, and ECG.

**External Display Support:** Includes a VGA output and two rear tele sockets for connecting an external monitor.



# SPECIFICATIONS



## DIMENSIONS

**Height:** 6.8 in (17.2 cm)  
**Width:** 16.5 in (42 cm)  
**Depth:** 14.6 in (37 cm)  
**Weight:** 19.8 lb (9.0 kg) or less

## DISPLAY

**Screen Size:** 6.5 in (16.5 cm) color touchscreen

## MONITORING PARAMETERS

**External Fetal Parameters:** Ultrasound (US) and Toco (contractions)

**Internal Fetal Parameters:** DECG, IUP

**Maternal Parameters:** MEKG, Pulse (NIBP and SpO2 available as options)

**Twin Monitoring:** Standard

**Triplet Monitoring:** Optional

Smart Pulse Technology (cross-checks maternal vs. fetal heart rate to prevent mix-ups)

Fetal Movement Profile

NST Timer

## DATA & CONNECTIVITY

**Trace Data Buffer:** 7 hours minimum

**System Interface:** Serial, LAN

Rear interface for Avalon CTS (Central Tracing System)

## POWER

**Supply Voltage:** 100 – 240 VAC  $\pm$  10%

**Supply Frequency:** 50/60 Hz

**Power Consumption:** 0.7 – 1.3 A

## ENVIRONMENTAL SPECIFICATIONS

**Operating Temperature:** 32°F to 113°F (0°C to 45°C)

**Storage Temperature:** -4°F to 140°F (-20°C to 60°C)

**Operating Humidity:** Up to 95% relative humidity, non-condensing