The Maquet Datascope CS300 IABP with IntelliSense combines fiber-optic speed with automatic in vivo calibration. The result is faster time to therapy, faster signal acquisition, and faster adaptation to rate and rhythm changes. Maquet has the only fiber-optic IABP and catheter system that automatically calibrates in the patient after insertion and automatically recalibrates in vivo every two hours or sooner should patient or environmental conditions change.

Features

- Faster inflation and deflation speed
- CS300 has true one-button start-up
- Automatically calibrates the fiber-optic pressure sensor in the patient and recalibrates every 2 hours or sooner should patient or environmental conditions change
- Automatically evaluates and selects the best lead and trigger source
- Automatically sets optimal timing
- Automatically adjusts to changes in patient conditions without clinician intervention
- A Maquet fiber-optic IAB catheter
- Conventional fluid-filled IAB catheters
# Specifications

## Dimensions
- **Size on Cart:** 43.1" H x 22.3" D x 16.8" W (109 cm H x 56.6 cm D x 42.7 cm W)
- **Size off Cart:** 26.9" H x 20.5" D x 10.8" W (68.3 cm H x 52.1 cm D x 27.4 cm W)
- **Console Weight:** 84.8 lbs. (38.4 Kg) nominal (includes S.D., CRM, and He tank)
- **Monitor:** 9.5 lbs. (4.3 Kg) nominal
- **Hospital Cart Weight:** 52.4 lbs. (23.8 Kg) nominal
- **Internal Battery:** 34 lbs. (15.4 Kg) nominal
- **Storage Bag:** 4.6 lbs. (2.1 Kg) nominal (includes doppler and doppler holder)

## Color Display
- **Color TFT Liquid Crystal Display (LCD):** 8.3"(21cm)W x 6.2"(15.8cm)H; up 45°, 10.4" diagonal (26.4 cm) down 55°, right 70°, left 70° viewing angle; Rotates 330°; Tilts 180°; Detachable; Laptop-like closure for storage and protection; Remote monitor mount (optional)

## Trigger
- **ECG Trigger:** Threshold dynamically adjusted by system for high sensitivity and selectivity of the R-wave detection; Minimum = 120µV ± 20µV at normal gain; 40µV at max. gain
- **Pressure Trigger:** Default trigger threshold is automatically adjusted to 38% of the systolic pulse height; 7 mm minimum
- **Manual threshold mode:** User adjustable between 7 and 30 mmHg ± 3 mmHg
- **Pacer A Trigger:** R-wave detection (as above) except pacer blanking is extended to 100 ms
- **Pacer V/A-V Trigger:** V Pacer: fixed at rate up to 185 bpm (no demand pacing)
- **A-V Pacer:** fixed at rate up to 125 bpm (no demand pacing) with A-V intervals between 80-224 ms

## Power
- **Mains Voltage:** 100-120 VAC ± 10% or 220-240 VAC ± 10%
- **Mains Frequency:** 50/60 Hz ± 3 Hz
- **Internal Battery:** 24 VDC (nominal), 17.2 Amp-hour, approx. 3 hrs. @ 90 bpm
- **Battery Type:** Maintenance free; Sealed lead-acid

## Pressure
- **Pressure Output:** (electrically isolated)
- **Pressure Range:** 0 to +300 mmHg (minimum)

## Operating
- **Op. Temp.:** 10°C - 40°C
- **Op. Humidity:** 5 - 95% (R.H.) non-condensing
- **Op. Altitude:** 0 - 12,000 feet (3,657 m); automatic altitude correction for IAB pressure

## ECG
- **ECG Leads:** In Auto Operation Mode: I, II, III, External In Semi-Auto Mode: I, II, III, AVR, AVL, AVF, V, External (12 lead compatibility)
- **ECG Gain (default):** 1 V output per 1 mV input ±5% (waveform automatically scaled to occupy ECG display window)
- **Gain (variable):** 0.15 to 3.0 cm/mV ±20% (autoscaling disabled)
- **Frequency Response:** 0.5-12 Hz (display); 0.5-135 Hz (Output to External Monitor)
- **Defibrillator Protection:** Discharge level ≤ 360 J (trace returns to screen in 5 sec max)
- **ESIS:** Automatic suppression with internal ECG amplifier