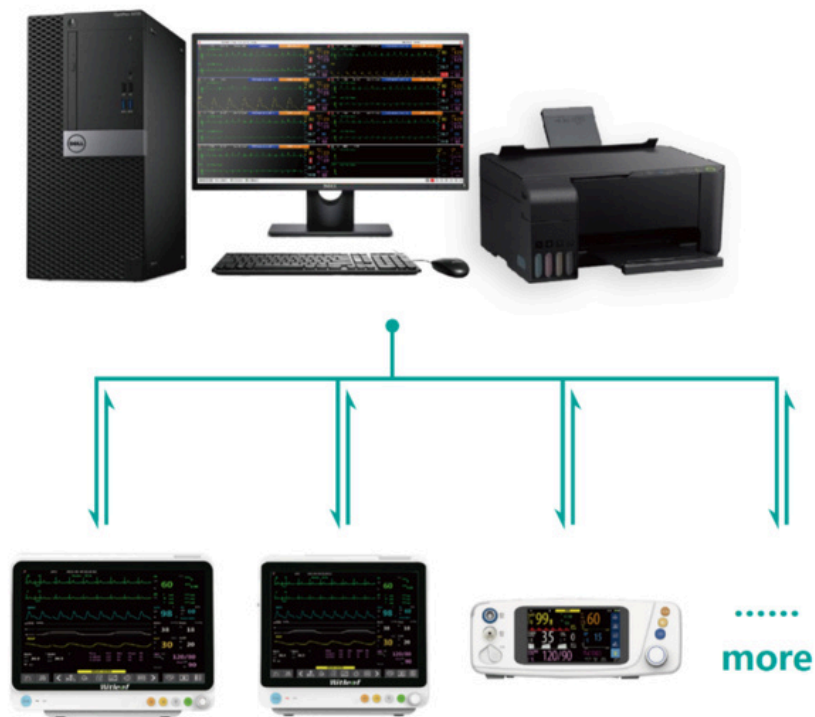


## Patient Monitoring System with W Series Patient Monitor

Manufacturer: Shenzhen Witleaf Medical Electronic Co., Ltd.

Centralized Monitoring System (CMS):



- **Patient capacity:** Simultaneously supports up to 64 beds or patients in clinical departments.
- **Physiological waveforms:** Stores and allows playback of up to 72 hours of 64-channel holographic physiological wave data.
- **Trend data storage:** Provides access to up to 240 hours of stored trend data.
- **Alarm events:** Stores up to 720 alarm events per bed.
- **Historical database:** Allows review of data for up to 10,000 discharged patients.
- **Drug dosage calculation:** Supports drug dosage calculation and creation of titration tables.

## **W12 Series Patient Monitors**

The patient monitor is available in two configurations: 15.6-inch and 12.1-inch color LED displays with touchscreen control. It supports a wide range of visual and audible alarms for various parameters, with three adjustable volume levels.

**The patient monitor features an ergonomic design and a compact structure. Internet connectivity provides expanded possibilities for application and use.**



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EEG Ai

Resp CO2  
AG

ECG SPO2  
IBP/NIBP TEMP  
PR



EEG and Ai - Anesthesia optimization using Ai™ monitoring

Patented technologies CapnSET and TiniStream

Excellent ECG analysis and Anti-motion algorithm for NIBP and SPO2



HD display



Touch display



Silent mode



Low power consumption



Intuitive interface



Good readability



Easy cleaning



Built-in battery with backup battery for 4 hours

## Features

- LowPulseStr™ SpO<sub>2</sub> algorithm ensures more reliable SpO<sub>2</sub> readings during low perfusion and patient movement.
- iFastBP™ NIBP algorithm provides fast and comfortable blood pressure measurement.
- wSmartHeart™ ECG technology enables safer and more accurate patient cardiac monitoring.
- iRealResp™ respiration rate measurement technology delivers accurate respiratory values even during movement.
- wSmartGas™ capnography technology ensures reliable capnography measurements under various conditions.



Option for expansion with additional modules

### Monitoring & Measurement Modules

- TiniStream CO<sub>2</sub>
- 2 IBP + CO
- Ai (Depth of Anesthesia) + 2 IBP
- EEG waveform
- CO (Cardiac Output)
- Sidestream CO<sub>2</sub> + 2IBP + CO
- Sidestream CO<sub>2</sub> + 2IBP
- Sidestream CO<sub>2</sub> + EEG
- Sidestream CO<sub>2</sub> + Ai (Depth of Anesthesia)
- EtCO<sub>2</sub> Module (Mainstream)

## SpO<sub>2</sub> Specification

- SpO<sub>2</sub> Range: 0–100%
- SpO<sub>2</sub> Accuracy: 70–100%, ±2%
- PI (Perfusion Index) Range: 0–20%
- PVI (Pleth Variability Index) Range: 0–0.001
- PR (Pulse Rate) Range: 25–250 bpm
- PR Accuracy: ±2 bpm or ±2% (whichever is greater)

## RESR (Respiration) Specification

- Measurement method: Transthoracic impedance
- Lead selections: Lead I and Lead II
- Respiratory impedance range: 0.3–5 Ω
- Baseline impedance range: 200–2500 Ω
- (using ECG cable with 1 kΩ resistance)
- Sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

## NIBP Specification

- Measurement method: Oscillometric method
- Measurement modes: Manual measurement, automatic measurement, continuous measurement
- Pressure range: 0–300 mmHg
- Pressure accuracy: ±2 mmHg or ±1% of the reading (whichever is greater)
- Resolution: 1 mmHg

## Systolic Pressure Range

- Adult: 40–270 mmHg
- Pediatric: 40–200 mmHg
- Neonatal: 40–130 mmHg

## Diastolic Pressure Range

- Adult: 10–210 mmHg
- Pediatric: 10–162 mmHg
- Neonatal: 10–90 mmHg



## Temperature Specification

- Measurement range: 0–50 °C, ±0.1 °C
- Resolution: 0.1 °C

## Mean Arterial Pressure (MAP) Range

- Adult: 20–230 mmHg
- Pediatric: 20–170 mmHg
- Neonatal: 20–100 mmHg
- Accuracy:
- Mean error < ±5 mmHg
- Standard deviation < 8 mmHg

## ECG Specification

- Lead type: 5-lead, 12-lead (optional)
- ECG measurement range: 0–100%
- ECG resolution: 2.36 μV / LSB
- Heart Rate (HR) range:
  - Adult: 15–300 bpm
  - Pediatric / Neonatal: 15–250 bpm
- HR accuracy: ±1 bpm
- RR (Respiratory Rate) range: 0–120 rpm
- RR accuracy: ±2 rpm or ±2%



## Optional Modules

### EtCO<sub>2</sub> (Optional)

- CO<sub>2</sub> range: 0–20.0 vol%
- CO<sub>2</sub> accuracy:
  - 0–12 vol%:  $\pm(0.2 \text{ vol\%} + 2\% \text{ of reading})$
  - 12–20 vol%:  $\pm(0.2 \text{ vol\%} + 6\% \text{ of reading})$
- AwRR range: 0–150 rpm
- AwRR accuracy:
  - Mainstream: 0–150 rpm,  $\pm 1$  rpm
  - Sidestream: 0–69 rpm,  $\pm 1$  rpm

### IBP (Optional)

- Pressure range: –50 to 350 mmHg
- Accuracy:  $\pm 3$  mmHg or  $\pm 1\%$  of reading (whichever is greater)
- Pulse rate (PR) range: 25–250 bpm
- PR accuracy:  $\pm 2$  bpm or  $\pm 2\%$  (whichever is greater)

### CO – Cardiac Output (Optional)

- **Measurement range: 0.20–20.00 L/min**
- **Accuracy:  $\pm 5\%$**

## **Configuration**

### **Central Monitoring Station**

#### **Standard configuration:**

- 1× USB with software
- 1× Personal computer
- 1× Monitor
- 1× Mouse
- 1× Keyboard
- Quantity: 1 unit

#### **W12 Patient Monitor**

Standard configuration:

- Device: W12 Patient Monitor with touchscreen,
- 12.1" display (SpO<sub>2</sub> / ECG / PR / HR / RESP / NIBP / 2× Temp)

#### **Standard accessories:**

- 1× User manual
- 1× Adult finger SpO<sub>2</sub> probe
- 1× SpO<sub>2</sub> extension cable
- 1× 5-lead ECG cable
- 1× NIBP extension tube
- 1× Adult NIBP cuff (22–35 cm)
- 2× Temperature probes (contact type)
- 1× Power cable
- Quantity: 1 unit



# MEDICAL TREST

## **Delivery Time**

- Within 20 business days across the entire territory of Lithuania from the date of contract signing.

## **Installation & Setup**

- Installation, commissioning, and calibration are performed by the company's engineers.

## **Staff Training**

- On-site training on system operation is provided at the installation location.

## **Warranty Period**

- 12 months from the date of commissioning.

## **Documentation**

- The system undergoes full state certification.
- User and operation manuals are provided.