

AP308B – Premium Portable Dental Workstation

Special Features & Clinical Advantages

Advanced Shadowless Lighting

The LED Surgical Lamp is engineered with a multi-point optical design. Unlike standard dental lights, it eliminates "hand-shadow" interference during delicate procedures, providing a consistent 30,000 Lux field that mimics hospital-grade operating room conditions.

Revolutionary Internal Water Delivery

The low-speed handpiece features a built-in Internal Water Delivery System.

- Eliminate Clutter: No need for external water bottles or hanging tubes.
- Aseptic Control: Reduces the risk of external contamination.
- Streamlined Workflow: Provides a constant, regulated flow directly through the internal coupling for smoother polishing and finishing.

Seamless Digital Integration

This unit is a "Clinic-on-Wheels." With the Integrated Windows 10 PC and 1080p Intraoral Camera, you can:

- Show patients real-time HD imagery to increase treatment acceptance.
- Save files directly to your cloud or local server via Wi-Fi.
- Run complex diagnostic software without needing a separate laptop or cart.

"Whisper-Quiet" Operation

Equipped with a dual-cylinder 550W oil-free compressor and acoustic dampening, the unit operates at ≤ 38 dB(A). This is critical for reducing patient anxiety and maintaining a professional, calm environment in mobile or small-office settings.

Summary of Technical Dimensions

- Cabinet Material: High-grade anti-microbial coated steel.
- Footprint: Compact 60 x 50 cm base (ideal for tight operatories).
- Work Surface: Smooth, chemical-resistant tabletop for easy disinfection.

Quality Standards

- Medical Grade: Full compliance with ISO 13485:2016.
- Global Ready: Dual-voltage support for international deployment.
- Reliability: 2-Year warranty on all major mechanical components.

Technical Datasheet: AP308B Portable Dental Unit

Model: AP308B (LED & Digital PC Edition)

Classification: Integrated Digital Portable Dental System

Applications: Veterinary Surgery, Mobile Dental Clinics, Oral Surgery, and Field Medical Missions.

 Complete Configuration List

Component	Technical Details	Quantity
LED Surgical Lamp	≥30,000 Lux, Multi-point Shadowless Design, Sensor Touch Control	1 pc
Integrated PC System	Intel Core i5, 8GB RAM, 256GB SSD, Windows 10 Pro (64-bit)	1 pc
HD Intraoral Camera	1080p Resolution, USB 3.0, TWAIN Driver Compatible	1 pc
Built-in Ultrasonic Scaler	Woodpecker® Original, 28kHz Frequency, 10-Level Adjustable	1 pc
Built-in LED Curing Light	Woodpecker®, ≥1000 mW/cm², 420-480nm Wavelength	1 pc
Three-Way Syringe	Stainless Steel; Air, Water, and Mist Functions	1 pc
High-Speed Handpiece Tube	4-hole or 2-hole coupling (Specify upon order)	1 pc
Low-Speed Handpiece Tube	Internal Water Delivery System (No external bottles required)	1 pc
Strong Suction System	High-vacuum suction with separate waste collection	1 pc
Water & Drain Bottles	1000ml each; Front-access for easy refill/disposal	1 set
Silent Air Compressor	550W Oil-Free, 4L Stainless Steel Tank, Noise ≤38 dB(A)	1 pc
Multi-function Foot Control	Pneumatic, Hands-free operation for hygiene	1 pc

 Technical Specifications

 LED Surgical Lighting System

- Illumination Intensity: ≥30,000 Lux
- Color Temperature: 4000K – 5000K (Adjustable)
- Color Rendering Index (CRI): ≥93 (Medical Grade)
- Service Life: 50,000+ Hours
- Control: Non-contact Infrared Sensor & Manual Touch

Integrated Computing & Imaging

- OS: Windows 10 Pro (64-bit)
- Processor: Intel Core i5 (or equivalent high-performance CPU)
- Storage: 256GB SSD | Memory: 8GB DDR4 RAM
- Software Compatibility: Supports all major imaging software (Dentrix, Eaglesoft, etc.)
- Camera Output: 1080p Full HD via USB 3.0 (6ft shielded cable)

Pneumatic & Power System

- Compressor Type: Oil-Free Silent Piston
- Motor Power: 550W
- Air Tank Capacity: 4 Liters (Anti-corrosion Stainless Steel)
- Max Pressure: 0.8 MPa
- Noise Level: ≤38 dB(A) at 1 meter (Ultra-Quiet)

Physical & Electrical Data

- Voltage Options: 110V/60Hz or 220V/50Hz
- Total Power Consumption: ~750W
- Dimensions (L×W×H): 60 × 50 × 150 cm
- Net Weight: Approx. 75 kg
- Mobility: 4× Medical-grade silent casters with independent locking brakes

Quality Assurance & Logistics

- Certifications: ISO 13485:2016 Quality Management, CE Certified
- Warranty: 2-Year Standard Warranty (Parts & Labor)
- Lead Time: 15–20 business days from order confirmation