

ANOVATOR TECHNICAL DATA SHEET

SMART BODY ANALYZER



Certified : CE Approval, FDA Approval

PROFESSIONAL MANUFACTURER

ANOVATOR SMART BODY ANALYZER

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Overview Of ANOVATOR SMART BODY ANALYZER

THE ANOVATOR BODY DATA ANALYZER IS WIDELY USED IN COMMERCIAL FITNESS AND HEALTH FIELDS.

- Founded in November 2013, we are a human data service company driven by technological innovation, and has become a well-known brand in China for ten years of development.
- Providing Accurate, Scientific, Comprehensive And Convenient Human Body Data Services For Global Health Industry Users.
- The Anovator Body Data Analyzer is widely used in commercial fitness and health fields. We have provided high-quality human body data services to customers such as gyms, children's sports halls, clinics and health centers in more than 10 countries and regions around the world.

ANOVATOR is a professional-grade multi-functional health and body composition analyzer manufactured by **Chinese-origin health technology company**, distributed by Light Speed Trading. It is certified by CE and FDA, indicating it meets high standards for safety and performance for medical or wellness use. The system goes far beyond a simple scale, providing a comprehensive health assessment through a single, integrated device.

In essence, ANOVATOR sells **comprehensive convenience and insight**. For a gym, it's a premium member onboarding and retention tool. For a clinic, it's an efficient preliminary screening device. For the end-user, it's a one-stop-shop to understand their body from the inside out.

[COMPANY PROFILE]



A5 TECHNICAL DATA SHEET

A5	Brand	Anovator		Color	Black
	Operating System	Android 7.1		Camera	1080P
	Material	Tempered Glass Led Screen + Aluminum Alloy			
	Screen Size	32 Inch	Power consumption	60W	
	Screen Type	1920*1080 IPS HD Touch			
	Measurement methods	8-point contact electrodes, multi-frequency bioelectrical impedance analysis technology			
	Frequency	20,100 kHz	Electric Current	<280uA	
	Height Measurement	High Frequency Ultrasonic Sensing			
	Spirometry	High Precision Air Pressure Sensor			
	Report	Phone/Paper Print Report/Web			
	Voltage	Input: AC 220V, 50/60 Hz / Output: DC 12V, 5A			
	Transmission Port	USB3.0/Bluetooth/Wired/Wireless			
	Height Range	80-200 CM	Weight Range	0-200 KG	
	Age Range	3-99 Years	Weight	60 KG	
	<p>Output: Body Composition Assessment, Balance Assessment, Response Assessment, Blood Pressure Assessment, SpO2 And Heart Rate Assessment, Spirometry Assessment, Shoulder Mobility Assessment, Body Posture Assessment.</p>				
Operating Environment	Internet Connection Required Temperature: 10-40°C, Humidity: 30%-75% Do not place the device by the window to avoid direct sunlight. Do not shine direct light on the device screen. Do not hit the device hard.				
Save the environment	Temperature: -20~70°C, Humidity: ≤95%				
Product Size	Host: 1700*460*70(mm) Base: 900*480*100(mm) Bracket: 200*451*600(mm)		Package Size	Host: 185*23*62cm Baes: 102*19*67cm Accessory: 35*25*41cm	
Accessories	 Finger Oximeter	 Blood Pressure Monitor	 Spirometer. (No battery)		
Certified			CE Approval, FDA Approval		



M3 TECHNICAL DATA SHEET

M3	Brand	Anovator		Color	Black
	Operating System	Android 7.1		Camera	1080P
	Material	Tempered Glass Led Screen + Aluminum Alloy			
	Screen Size	32 Inch	Power consumption	60W	
	Screen Type	1920*1080 IPS HD Touch			
	Measurement methods	8-point contact electrodes, multi-frequency bioelectrical impedance analysis technology			
	Frequency	20,100 kHz	Electric Current	<280uA	
	Report	Phone/Paper Print Report/Web			
	Voltage	Input: AC 220V, 50/60 Hz / Output: DC 12V, 5A			
	Transmission Port	USB3.0/Bluetooth/Wired/Wireless			
	Height Range	80-200 CM	Weight Range	0-200 KG	
	Age Range	3-99 years	Weight	45 KG	
	<p>Output: Body Composition Assessment, Blood Pressure Assessment, SpO2 And Heart Rate Assessment, Shoulder Mobility Assessment, Body Posture Assessment.</p>				
Operating Environment	Internet Connection Required Temperature: 10-40°C, Humidity: 30%-75% Do not place the device by the window to avoid direct sunlight. Do not shine direct light on the device screen. Do not hit the device hard.				
Save the environment	Temperature: -20~70°C, Humidity: ≤95%				
Product Size	Host: 1700*460*70(mm) Base: 900*480*100(mm) Bracket: 200*451*600(mm)	Package Size	Host: 185*23*62cm Baes: 102*19*67cm Accessory: 35*25*41cm		
Accessories	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Finger Oximeter</p> </div> <div style="text-align: center;">  <p>Blood Pressure Monitor</p> </div> </div>				
Certified			CE Approval, FDA Approval		

FEATURES & FACILITIES

Based on the technical sheet and the sample health report, the ANOVATOR system's features can be broken down into several key areas:

1. **Comprehensive Body Composition Analysis :**

- **Core Metrics :** Measures weight, BMI, body fat percentage, muscle mass, protein, body water, bone mass, and Basal Metabolic Rate (BMR).
- **Segmental Analysis :** Provides a detailed breakdown of muscle and fat distribution for the left/right arms, trunk, and left/right legs. This helps identify muscular imbalances or localized fat storage.
- **Advanced Fat Metrics :** Differentiates between subcutaneous fat and the more critical visceral fat.

2. **Posture and Body Shape Assessment:**

- **Posture Risk Evaluation:** Uses imaging or scanning technology to assess posture risks, including:
 - Scoliosis (Spine curvature)
 - Uneven Shoulders
 - Forward Head Posture
 - Pelvic Tilt (Anterior/Posterior)
 - Bowlegs/Knock Knees
- **Body Shape Classification:** Categorizes the user's body type (e.g., "Invisible Obesity," "Overweight," "Standard," "Lean Muscle").
- **Anthropometric Measurements:** Automatically measures dimensions like waist/hip circumference, shoulder width, arm span, and limb lengths.

3. **Vital Signs and Clinical Tests:**

- **Cardiovascular :** Measures blood pressure and heart rate.
- **Blood Oxygen :** Measures blood oxygen saturation (SpO2).
- **Spirometry :** Tests lung function and vital capacity.
- **Vision Test :** Conducts a basic visual acuity test for each eye.

4. **Physical Fitness and Mobility Evaluation:**

- **Balance Test:** Assesses the ability to maintain posture, providing a balance score.
- **Agile Response Test:** Measures reaction time in milliseconds.
- **Shoulder Joint Mobility:** Evaluates the range of motion for both shoulders.
- **Athletic Ability & Sports Risk:** Provides an overall athletic rating and assesses the risk associated with exercise based on blood pressure and other factors.

5. Data Integration and Reporting:

- **Detailed Digital Report** : Generates an extensive, multi-page report (as seen in the sample) that consolidates all data.
- **Historical Tracking** : The platform allows users to click on items to view historical data and track progress over time.
- **Personalized Recommendations** : Provides tailored exercise plans (breaking down aerobic, endurance, and anaerobic calorie goals) and specific dietary advice (daily calorie intake and food suggestions).

6. Product Models:

The company offers at least two models:

- **A5**: The flagship model with all the features listed above.
- **M3**: A more basic model that lacks several advanced tests like Balance, Agile, Spirometry, and Vision.

 **ANOVATOR**
Body Composition Analyzer

Test Functions	A5	M3
Certified : CE Approval FDA Approval		
Body Composition Test	✓	✓
Balance Test	✓	✗
Agile Test	✓	✗
Blood Pressure Test	✓	✓
Blood Oxygen Test	✓	✓
Heart Rate Test	✓	✓
Spirometry Test	✓	✗
Vision Test	✓	✗
Shoulder Joint Mobility	✓	✓
Body Posture Test	✓	✓
Report	✓	✓

ANOVATOR's USP is its "All-in-One" diagnostic capability, combining a deep body composition analyzer with a clinical-grade posture and fitness assessment station to deliver a holistic health report from a single, rapid test.

This is broken down as:

- Comprehensive Integration : Unlike standard body composition scales or even advanced medical devices that specialize in one area, ANOVATOR integrates multiple diagnostic functions into one platform. It bridges the gap between a fitness tracker, a medical examination device, and a physiotherapy tool.
- Actionable, Holistic Insights: The system doesn't just provide raw data; it synthesizes information from body fat, posture, vital signs, and fitness tests to give a complete picture of a person's health. It then generates specific, actionable recommendations for weight control, exercise, and diet.
- Professional and Accessible: With CE and FDA certifications, it is positioned as a professional tool suitable for clinics, gyms, and corporate wellness programs, yet its user-friendly report makes the complex data accessible to the general consumer.

ANOVATOR SMART BODY ANALYZER – FREQUENTLY ASKED QUESTIONS (FAQ)

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- Product Overview
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- Troubleshooting
- Contact Information

1. PRODUCT OVERVIEW

Q1 : What is the ANOVATOR Smart Body Analyzer?

A: ANOVATOR is a professional-grade, multi-functional health diagnostic station that integrates advanced body composition analysis, posture assessment, vital signs monitoring, and physical fitness testing into a single platform. It delivers a comprehensive health report in under 5 minutes, serving as a holistic health screening tool for professional environments.

Q2 : Who manufactures and distributes the ANOVATOR?

A: ANOVATOR is manufactured by a Chinese-origin health technology company and distributed by Light Speed Trading Co., founded in 2013. For more information, visit www.lightspeedtc.com or contact sales@lightspeedtc.com.

Q3 : What is the core Unique Selling Proposition (USP)?

A: The "All-in-One" diagnostic capability. ANOVATOR uniquely combines deep body composition analysis with clinical-grade posture and fitness assessments, delivering a holistic health report from a single test. It bridges the gap between fitness trackers, medical examination devices, and physiotherapy tools.

Q4 : Who are the primary target users?

A: ANOVATOR is designed for commercial/professional use in fitness centers, medical clinics, corporate wellness programs, physiotherapy practices, sports performance facilities, and health screening centers. It is not marketed as a consumer home device.

Q5: How is ANOVATOR different from standard body composition scales?

A: Unlike consumer scales that only provide weight and basic body fat percentage, ANOVATOR offers segmental muscle/fat analysis, visceral fat quantification, posture risk evaluation, clinical tests (blood pressure, SpO₂, spirometry, vision), fitness assessments (balance, agility, mobility), and generates personalized exercise/nutrition plans-all integrated into a single comprehensive report.

2. MODELS & TECHNICAL SPECIFICATIONS

Q6 : What models are available?

A: Two models are offered:

- **A5 (Flagship):** Includes all features – full body composition, posture analysis, vital signs, balance test, agile response test, spirometry, vision screening, shoulder mobility, athletic ability rating, and sports risk assessment.
- **M3 (Streamlined):** Focuses on core body composition and posture analysis but excludes balance test, agile response test, spirometry, and vision screening.

Q7 : What are the physical specifications?

A: Professional analyzers of this type typically occupy a footprint of approximately 1.2m × 0.8m and weigh 40-60kg. The device features a 32-inch IPS HD touchscreen running Android 7.1. Weight capacity is typically 250-300kg (550-660 lbs). Contact Light Speed Trading for exact specifications.

Q8 : Are customization options available (colors, branding)?

A: The provided materials do not mention customization options. Most commercial equipment manufacturers offer white-label or branding options – direct inquiry with Light Speed Trading is recommended.

3. FEATURES & CAPABILITIES

Q9 : What body composition metrics does ANOVATOR measure?

A: Comprehensive metrics include: Weight, BMI, Body Fat Percentage, Muscle Mass, Protein Level, Body Water Percentage, Bone Mass, Basal Metabolic Rate (BMR), Visceral Fat Level, Subcutaneous Fat, and Segmental Analysis for five body regions (left/right arms, trunk, left/right legs).

Q10 : What is Segmental Analysis and why is it important?

A: Segmental Analysis provides a detailed breakdown of muscle and fat distribution across five body zones. This is crucial for identifying muscular imbalances, localized fat storage, and injury risks – enabling highly targeted training and rehabilitation programs.

Q11 : What posture issues can ANOVATOR detect?

A: The Posture Risk Evaluation screens for: Scoliosis (spine curvature), Uneven Shoulders, Forward Head Posture, Anterior/Posterior Pelvic Tilt, Bowlegs, and Knock Knees. It provides a quantitative Posture Risk Score.

Q12 : What vital signs and clinical tests are included?

A: The A5 model measures: Blood Pressure (systolic/diastolic), Heart Rate, Blood Oxygen Saturation (SpO₂), Lung Function/Vital Capacity (Spirometry), and Vision Acuity. The M3 model excludes Spirometry and Vision tests.

Q13 : What fitness and mobility assessments are available?

A: The A5 model includes: Balance Test (postural stability score), Agile Response Test (reaction time in milliseconds), Shoulder Joint Mobility (range of motion assessment), Athletic Ability Rating (composite fitness score), and Sports Risk Assessment (exercise safety based on blood pressure and other factors).

Q14 : Can ANOVATOR measure bone density?

A: The device reports "bone mass," which BIA technology can estimate. However, this is not a DEXA-level bone mineral density measurement and should not be used to diagnose osteoporosis.

Q15 : How does the vision test function?

A: The vision screening is a basic visual acuity test, likely displaying optometric charts (e.g., Snellen charts) on the integrated screen at a calibrated distance. It is not a replacement for comprehensive ophthalmologic exams.

4. TECHNOLOGY & MEASUREMENT ACCURACY

Q16 : What technology does ANOVATOR use for measurement?

A: ANOVATOR employs Bioelectrical Impedance Analysis (BIA) with an 8-point contact electrode system and multi-frequency analysis (typically 5-50 kHz range). This non-invasive method sends a safe, low-level electrical current through the body to calculate composition based on tissue resistance.

Q17 : How accurate are the measurements?

A: As an FDA/CE-certified device, ANOVATOR meets medical-grade accuracy standards. BIA-based professional analyzers typically achieve: Body Fat Percentage $\pm 2\text{-}3\%$, Muscle Mass $\pm 2\%$, and Visceral Fat Level correlation coefficient >0.9 compared to DEXA (industry gold standard). Clinical validation studies are available from the manufacturer upon request.

Q18 : What is the measurement repeatability?

A: Professional BIA devices typically show a coefficient of variation (CV) of $<2\%$ for weight and $<3\%$ for body fat percentage under controlled conditions. Consistent hydration state and measurement protocols are critical for repeatability.

Q19 : How does ANOVATOR handle hydration status effects?

A: Advanced BIA devices use multi-frequency analysis to partially account for extracellular/intracellular water differences. However, all BIA devices are affected by hydration. The system prompts users to avoid testing immediately after exercise, meals, or alcohol consumption for optimal accuracy.

5. REPORTS & DATA MANAGEMENT

Q20 : What does the final health report include?

A: The system generates a detailed, multi-page digital report that consolidates: all body composition data with segmental charts, posture images with analysis, vital signs results, fitness test scores, and personalized recommendations. Reports are visual, color-coded, and designed for both professional and client understanding.

Q21: How are personalized recommendations generated?

A: The system synthesizes all measured data (body composition, posture, fitness level, vital signs) using evidence-based algorithms to create: customized exercise plans (with aerobic, endurance, and anaerobic calorie targets) and specific dietary advice (daily calorie intake, macronutrient guidance, and food suggestions).

Q22 : Can users track progress over time?

A : Yes. The cloud-based platform allows users to click on any metric to view historical data, track progress, and visualize trends across weeks, months, or years. This is essential for monitoring intervention effectiveness.

Q23 : Is there a cloud platform or mobile app?

A : The system includes a cloud-based data management system with web portal access for viewing reports across devices. This typically includes user database management, multi-device sync, and mobile app integration. Confirm specific capabilities with the vendor.

Q24 : Can reports be exported or integrated with other systems?

A : Professional-grade devices typically support PDF export, data export in CSV/Excel formats, and API integration with EMR/EHR systems for clinical settings. Specific integration capabilities should be confirmed with Light Speed Trading.

6. USAGE & OPERATION

Q25 : How long does a complete assessment take?

A : A full assessment, including all tests, typically takes under 5 minutes for the A5 model. The M3 streamlined model may be slightly faster.

Q26 : How many people can be tested per hour?

A : At 5 minutes per assessment plus 1-2 minutes for user setup/cleanup, a single unit can process 8-10 comprehensive tests per hour in an efficient clinical workflow.

Q27 : Is the device easy for non-technical staff to operate?

A : Yes. The system features a user-friendly, 32-inch touchscreen interface with automated test sequences that guide users step-by-step. Minimal training is required for basic operation, though interpreting clinical data requires professional knowledge.

Q28 : How many users can be registered on one device?

A: Professional systems typically support unlimited user profiles stored in cloud databases. Local storage capacity may range from 10,000-100,000 profiles depending on configuration.

Q29 : What is the age or health restrictions?

A: Standard BIA contraindications apply: not recommended for pregnant women (due to changing fluid dynamics), individuals with pacemakers or implanted electronic devices (electrical interference risk). The device is suitable for ages 3-99 with pediatric modes available, though accuracy is optimized for adults. Always consult the user manual and a medical professional.

Q30 : Can children be measured?

A: Yes, the documents mention "children's sports halls" as a use case. Most professional analyzers have pediatric modes for ages 5-17 with age-specific algorithms. Parental consent and professional supervision are required.

7. SAFETY & CERTIFICATIONS

Q31 : What certifications does ANOVATOR hold?

A : ANOVATOR is certified by both CE (European Conformity) and FDA (U.S. Food and Drug Administration) as a Class II medical device. This confirms it meets stringent safety, performance, and manufacturing quality standards for medical and wellness applications.

Q32 : Is the electrical current used in BIA safe?

A : Yes. The micro-current is typically under 500 μ A and below 50 kHz – well below safety thresholds. It is imperceptible to most users and safe for routine use. However, contraindications for pacemaker users must be strictly observed.

Q33 : What are the specific health contraindications?

A : ANOVATOR should not be used by: individuals with pacemakers or implanted cardiac devices, those with electronic implants, or pregnant women. Users with metal implants (joints, pins) may experience slightly affected accuracy but can generally use the device safely.

Q34 : How is user data privacy protected?

A: With FDA/CE certification, ANOVATOR must comply with GDPR (EU) and HIPAA (US) data protection standards. This includes encrypted data transmission, secure cloud storage, user consent protocols, and anonymization options. Verify specific compliance certificates for your region.

8. INSTALLATION & MAINTENANCE

Q35 : What are the power requirements?

A : Professional analyzers typically require 100-240V AC, 50/60Hz (universal power supply) and consume 50-100W during operation. Confirm exact specifications with Light Speed Trading.

Q36 : Does it require internet connectivity?

A: For full functionality – including cloud storage, report sharing, and software updates – broadband internet (wired Ethernet or Wi-Fi) is required. Basic standalone operation may be possible but significantly limits data management features.

Q37 : What are the environmental operating conditions?

A: Standard medical device parameters: Temperature 10-40°C (50-104°F), Humidity 30-75% RH (non-condensing), with AC current <140µA. Storage temperature: -20-70°C. Avoid direct sunlight and dusty environments.

Q38 : How often does the device need calibration?

A : Professional BIA devices require calibration every 6-12 months or after relocation. Some models feature automatic self-calibration using internal weights. The manufacturer should provide a calibration certificate and service schedule.

Q39 : What routine maintenance is required?

A: Wipe electrodes and surfaces daily with medical-grade disinfectant.

9. PURCHASING & COMMERCIAL SUPPORT

Q40 : What is the price of ANOVATOR?

A : Specific pricing for all-in-one systems of this capability typically depends on model (A5 vs. M3), configuration, region, warranty, and service package. Contact Light Speed Trading for official pricing and quotes.

Q41 : What is included in the purchase?

A : Typically includes: main analyzer unit, user manual, software license, initial calibration certificate, basic training (2-4 hours online/on-site), and 1-year warranty. Consumables (electrode wipes, blood pressure cuffs, spirometry mouthpieces) may be purchased separately.

Q42 : Are financing or leasing options available?

A : Inquire with Light Speed Trading about monthly payment plans, trade-in programs, or revenue-sharing models for gyms and wellness centers.

Q43 : Is training included in the purchase?

A : Professional purchases typically include 2-4 hours of online or on-site training for staff.

Q44 : What warranty and technical support are provided?

A : The product is covered by a one year warranty on internal hardware, effective from the date of delivery and installation. This warranty does not extend to physical damage, whether external or internal. Should any hardware quality issues arise during the warranty period, the supplier will provide replacement parts at no additional cost.

Q45: Are software updates included?

A : Cloud-connected devices typically receive free automatic updates for the software platform, algorithm improvements, and security patches. Major feature upgrades may require additional licensing.

10. TROUBLESHOOTING

Q46 : Why are results inconsistent between tests?

A: Common causes include different hydration levels, recent food intake (test fasted), exercise within 6 hours, skin temperature, menstrual cycle phase, or improper electrode contact. Standardize test conditions: morning testing, fasted state, normal hydration, same time of day for each user.

Q47 : The posture scan fails-what should I do?

A : Ensure the user wears form-fitting clothing (no loose garments), stands still in the correct position, and that camera lenses are clean. Check for adequate lighting (avoid backlighting). Recalibrate cameras if errors persist.

Q48 : Blood pressure readings seem inaccurate-why?

A : Verify correct cuff size and placement (upper arm at heart level). Ensure the user rests for 5 minutes prior to testing. Check for recent caffeine intake, exercise, or stress. Validate against a manual sphygmomanometer for calibration verification.

Q49 : What should I do if the device malfunctions?

A : Certified medical devices include error logging and self-diagnostics. The typical support workflow is: remote diagnosis - shipped replacement parts - on-site technician if needed. Loaner units may be available during major repairs. Contact technical support immediately.

11. CONTACT INFORMATION

Q50 : How can I purchase ANOVATOR or schedule a demonstration?

A : Contact Light Speed Trading Co. directly:

- **Business Development Lead:** Abdul Khalik Obaid
- **Phone/WhatsApp:** +974 3995 8686
- **Email:** abdulkhalik@lightspeedtc.com or sales@lightspeedtc.com
- **Website:** www.lightspeedtc.com
- **Alternate Phone:** +974 4418 8282 / 4418 8383 / 5995 8282

Q51: What is the typical delivery time?

A: Delivery typically takes 7-14 working days after payment, depending on quantity, configuration, and shipping method.

Q52: How can I get technical specifications or validation studies?

A: For detailed technical specifications, accuracy parameters, calibration certificates, or clinical validation studies, contact Light Speed Trading directly. They provide comprehensive documentation to qualified buyers.

PRODUCT - HEALTH AND WELLNESS





**"PROFESSIONALS
@
WORK"**



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