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Welch Allyn 238-3+11840-IEX

Welch Allyn MacroView Plus iExaminer Set Instruction Manual

Model: 238-3+11840-IEX

1. INTRODUCTION AND OVERVIEW

The Welch Allyn MacroView Plus iExaminer Set is an advanced otoscope system designed for enhanced ear examination and digital image capture. This set combines the MacroView Plus otoscope with the iExaminer Kit, allowing for integration with smartphones to save and share tympanic membrane images.

Key features include SureColor LED illumination for accurate tissue color rendition, a wide observation field, Durashock technology for durability, and compatibility with the iExaminer Pro app.



Image 1.1: The MacroView Plus iExaminer Set attached to a smartphone. Please note that the handle and smartphone are sold separately.

2. SETUP

1. **Charge the Power Handle:** If using the optional USB rechargeable lithium handle (model 719-3), ensure it is fully charged before use. The MacroView Plus is also compatible with existing Welch Allyn 3.5V power sources.
2. **Attach the MacroView Plus Head:** Securely attach the MacroView Plus otoscope head to the power handle.
3. **Install iExaminer Kit:** Attach the iExaminer adapter to the MacroView Plus otoscope head.
4. **Mount Smartphone:** Carefully mount your compatible iPhone or Android smartphone onto the iExaminer adapter.
5. **Download iExaminer Pro App:** Download the free iExaminer Pro app from your smartphone's respective app store (App Store for iPhone, Google Play Store for Android).
6. **Select Specula:** Choose an appropriate LumiView Clear Specula for the examination and attach it to the otoscope head.

Welch Allyn ルミビュークリアスペキュラとの 組み合わせでより明るい観察視野に



Image 2.1: The MacroView Plus otoscope head shown with various sizes of LumiView Clear Specula, which enhance the observation field.

3. OPERATING INSTRUCTIONS

3.1 General Examination

1. Turn on the power handle to illuminate the otoscope.
2. Gently insert the specula into the patient's ear canal.
3. Observe the tympanic membrane and ear canal through the otoscope's lens. The MacroView Plus offers approximately 5x magnification and a wide observation field, about 3 times larger than traditional diagnostic otoscopes (model 20000).
4. The focus-free design minimizes the need for focal adjustment during examination.

3.2 Using the iExaminer Pro App

1. Launch the iExaminer Pro app on your smartphone.
2. The app will display the live view from the otoscope.
3. Use the app's interface to capture still images or record video of the examination.

4. Images and videos of the tympanic membrane can be saved directly to your smartphone and shared as needed.



Image 3.1: Proper usage of the MacroView Plus iExaminer Set during an ear examination.



Image 3.2: Visual representation of the wider observation field provided by the MacroView Plus with SureColor LED technology.

4. MAINTENANCE

- **Cleaning:** Clean the otoscope head and specula according to standard medical device cleaning protocols. Ensure the lens is free of debris for clear viewing.
- **LED Bulb Life:** The SureColor LED bulb has an approximate lifespan of 1,000 hours, reducing the need for frequent bulb replacement.
- **Battery Care:** If using the rechargeable handle, ensure it is regularly charged to maintain optimal performance. The design ensures consistent brightness throughout the battery's charge duration, unlike older models where brightness might dim.
- **Durability:** The device incorporates Durashock technology, providing enhanced impact resistance. Handle the device with care to prolong its lifespan.

- 独自の耐衝撃技術による高い堅牢性
- パワーソースは新旧の互換性があり
既存品でも使用可能

DURASHOCK™



Image 4.1: Durashock technology provides robust impact resistance for the device.

5. TROUBLESHOOTING

- **No Illumination:** Ensure the power handle is turned on and fully charged. If using a non-rechargeable handle, check the batteries.
- **Unclear View:** Check if the specula or otoscope lens is dirty or fogged. Clean as necessary. Ensure the specula is properly attached.
- **iExaminer App Not Connecting/Displaying Image:** Verify that your smartphone is correctly mounted on the iExaminer adapter. Restart the iExaminer Pro app and ensure your phone's camera access is granted to the app.
- **Device Malfunction:** If the device is not functioning as expected after checking the above, refer to the warranty information for support.

6. SPECIFICATIONS

Welch Allyn MacroView Plus (Model 238-3)

Feature	Description
Model Number	238-3
iExaminer Digital Compatibility	Yes
Dimensions (H x W x D)	7 cm x 4.5 cm x 5.5 cm
Weight	115 g
Pneumatic Otoscopy	Possible
Illumination Type	Annular Fiber Optic
Bulb Type	SureColor™ LED
Bulb Life	Approx. 1,000 hours
Observation Field	Approx. 3 times wider than standard diagnostic otoscope 20000
Magnification	Approx. 5x
Focus	Focus-free design, minimal adjustment needed
Total Light Output	5200 lux, 2.5 times brighter than conventional halogen scopes
Color Rendition	CRI: 95 standard, R9:90 standard, Color Temperature: 3400 K–4500 K
Power Handle Optimization	Optimized for 719-3 Lithium-ion rechargeable handle; maintains brightness throughout battery charge, no color change due to dimming.
Medical Device Notification Number	13B2X00086000030

仕様	マクロビュープラス	マクロビューベーシック
カタログ番号	238-3	238-2
iExaminer デジタル対応	あり	なし
保証期間	1 年	1 年
高さ x 幅 x 奥行き	高さ 7 cm x 幅 4.5 cm x 奥行き 5.5 cm	
重量	115 g	
ニューマチック耳鏡検査	可能	
照明タイプ	リング状光ファイバー	
電球	SureColor™ LED	
電球寿命	約60年※1	
観察視野	弊社標準品の20000に比べ観察視野は約 3 倍	
拡大倍率	約 5 倍	
焦点の制約を受けない設計	広視野の耳鏡は焦点長が長く、焦点調節の必要はほとんどありません。	
総光出力	5200 ルクスで、従来のハロゲンスコープよりも 2.5 倍明るくなっています。	
色	カラーレンダリングインデックス (CRI) :95 標準、R9:90 標準、色温度:3400 K~4500 K	
719-3 リチウムイオン充電式ハンドル用に最適化	バッテリー充電の持続時間を通して明るさが維持され (使用にともなって暗くなっていく従来の設計と異なる)、減光によって色が変わることはありません (ハロゲンと異なる)。	

Image 6.1: Comprehensive specifications for the MacroView Plus and MacroView Basic models.

7. WARRANTY AND SUPPORT

The Welch Allyn MacroView Plus iExaminer Set comes with a **1-year warranty** provided by Welch Allyn Japan Co., Ltd.

For technical support, service, or warranty claims, please contact your local Welch Allyn representative or authorized distributor. Ensure you have your model number (238-3+11840-IEX) and purchase information available when contacting support.

