

ASCENT

cardiorespiratory diagnostic software



NOW AVAILABLE FOR PULMONARY FUNCTION & GAS EXCHANGE TESTING

A remarkably better way to collect, access & review data so you can stay focused on your patients.



Our all-new Ascent™ cardiorespiratory diagnostic software™ has been designed from the ground up with overall testing and interpretation workflow in mind, resulting in the most advanced testing software platform available worldwide.

EASY TO USE

- On screen instructions walk you through the entire testing and interpretation process.
- Monitor patient efforts in REAL-TIME during testing.
- No other software is easier to use or provides as much insightful information for the clinician.

POWERFUL

- The Score Card and Insight™ quality control gauge allows for expedited selection and review of ATS acceptability and repeatability guidelines.
- User-defined gas exchange gauges help with the assessment of normal versus abnormal responses for cardiopulmonary exercise testing (CPET) and indirect calorimetry (resting/nutrition).

VERSATILE

- Customize views and generate evaluator comments for effort quality.
- Use the Privacy Filter for patient data protection.
- Sort and review tests via AscentReview™ software or user-formatted reports.

ATS Scorecard

QC Grading Guidelines	1	2	3
FVC	✓	✓	✓
Acceptability	✓	✓	✓
REB < 5% or 150 ml, whichever is greater	✓	✓	✓
Cough within first second of exhalation	✓	✓	✓
End of test: Change in Volume < 25ml for 2-14	✓	✓	✓
End of test: Exhalation Time ≥ 6s	✓	✓	✓
Repeatability (ml)	✓	✓	✓
FEV1: Two largest values within 150 ml	4508	63	12(A)
FVC: Two largest values within 150 ml	5377	80	45(A)
QC Grade	AA		

TEST SCORE CARD AND INSIGHT™ QUALITY CONTROL GAUGE displays acceptability and repeatability criteria



Additional Features

ATS/ERS ACCEPTABILITY AND REPEATABILITY FOR PULMONARY FUNCTION

Test grids convey ATS/ERS Acceptability and Repeatability guidelines, including those for preschool children.

- Back Extrapolation
- Flow Cessation
- Repeatability
- Best Effort Composition
- The Score Card assesses patient test results against ATS criteria for Acceptability and Repeatability.

IMPROVED CALIBRATION AND VERIFICATION

preVent® flow sensor calibration and verification requires three strokes in three specific zones. Positive feedback is provided in each zone, limiting strokes to three inspiratory/expiratory strokes. Results display relative to their limits in the results control.

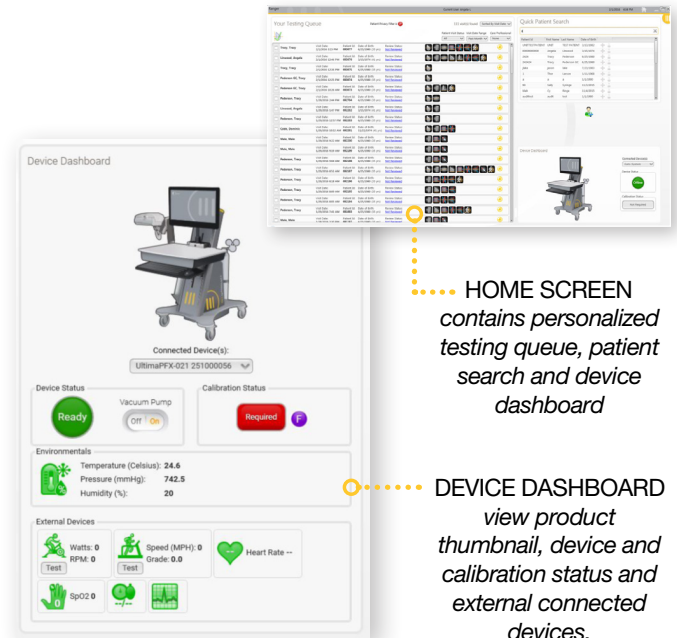
DEVICE DASHBOARD

The home screen and device dashboard provide quick access to essential information for connected devices:

- Automatic device discovery and thumbnail of current system in use.
- Switch to other connected systems quickly via dropdown.
- Device Calibration Status.
- External device status for GX testing.

ENHANCED GRAPHICS

Ascent's at-a-glance graphics enable easy test status identification. Test icons are displayed for completed tests, allowing direct access to corresponding test results with a click



HOME SCREEN contains personalized testing queue, patient search and device dashboard

DEVICE DASHBOARD view product thumbnail, device and calibration status and external connected devices.

Pulmonary Function Testing

Precision in Respiratory Assessment

Accurate pulmonary function testing is at the heart of diagnosing and managing respiratory conditions. Ascent cardiorespiratory diagnostic software's Pulmonary Function Testing features offers a comprehensive suite of tools to measure lung capacity, airflow rates, and respiratory mechanics. Ascent software seamlessly integrates with MGC Diagnostic systems, ensuring that results are captured and analyzed in real time.



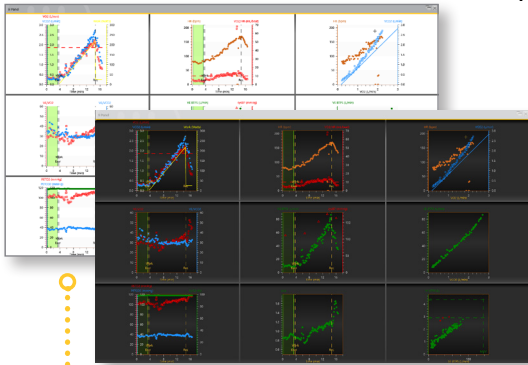
KEY FEATURES:

- **Complete PF Studies:** Effortlessly assess all lung function values including spirometry, lung volumes, diffusion capacity and pressures.
- **Quality Control:** Built in graphs for syringe and Bio QC subjects with standard deviations and limits.
- **Graphical Analysis:** Intuitively visualize results in graphical formats for easy interpretation.
- **Comparative Studies:** Monitor changes over time and compare results with established norms.

Gas Exchange Testing

Accurate and Precise CPET/CPX and Indirect Calorimetry Analysis

Understanding the collaborative function of the cardiovascular and respiratory systems requires accurate assessment of gas exchange efficiency. Ascent software's Gas Exchange Testing features offers advanced capabilities to measure oxygen consumption, carbon dioxide output, and ventilation parameters during both rest and exercise. Gain deeper insights into pulmonary and cardiac efficiency, allowing for more informed treatment decisions.



REPORTING

graphics show your choice of data in light or dark format

KEY FEATURES:

- **Metabolic Analysis:** Derive oxygen uptake, carbon dioxide output, and respiratory analysis.
- **Effort Variability:** Evaluate gas exchange across different exercise intensities.
- **Exercise Challenge and Prescription:** Discover thresholds and limits through progressive exercise protocols.
- **Customized Reporting:** Includes time down, summary and graphics to look at anaerobic threshold, curve fits such as VE/VCO2 slope output, 9-panel plot and more.

INSIGHT™

QUALITY CONTROL GAUGE

Revolutionize the way you assess patient efforts!

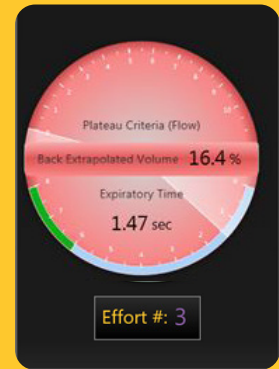
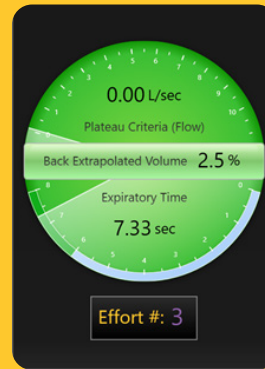
Among the powerful features within Ascent software, one truly stands out - the Insight™ quality control gauge.

REAL TIME MONITORING

Ensure adherence to ATS/ERS standards including detecting Back Extrapolated Volume Promptly for immediate visibility into patients' efforts.

EFFORT VISUALIZATION MADE SIMPLE

Simplify effort visualization with Insight: Effort levels are vividly displayed in green and red, serving as an instant guide for ATS/ERS standards and ensuring reliable data for confident interpretations.

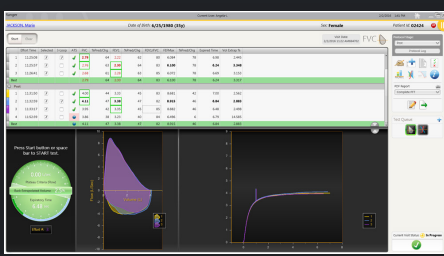


REAL-TIME INSIGHTS, ELEVATE PATIENT CARE

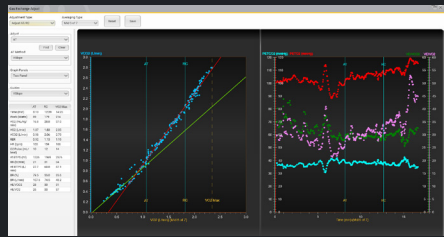
The Insight™ quality control gauge enhances patient testing with real-time visibility.

1. **Enhanced Diagnostic Accuracy:** Ensure precise diagnostics by monitoring patient efforts as they occur, minimizing retests and errors.
2. **Time Efficiency:** Immediate feedback during testing optimizes workflow for clinicians.
3. **Improved Patient Experience:** Real-time insights enables clinicians to guide patients during the test for better cooperation.

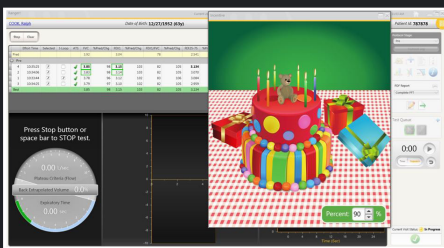
SAMPLE SOFTWARE SCREENS



FVC TESTING SCREEN
contains Insight quality control gauge and patient efforts



GAS EXCHANGE ADJUST
choose your AT method to view graph panels with testing data and guides



PATIENT INCENTIVE SCREEN
incentive options include birthday cake and balloon

Also Available... Workflow Solutions

with Ascent cardiorespiratory diagnostic software

DATA REVIEW

AscentReview™ physician review software

- Assess and interpret diagnostic test results
- Electronically sign and send final reports to the Electronic Medical Record.
- The software works on Windows workstations in the network or can be set up on a Windows server for Remote Desktop Services (RDS) or Citrix with the Ascent Server License



DATA MANAGEMENT

Ascent Networking

- Links diagnostic and review workstations to share and store data in a central Microsoft SQL Server® database.
- This allows all workstations to use one database, either through a local area network (LAN) or a wide area network (WAN).
- Reports, reference values, and statements can be standardized across sites.

AscentConnect HL7™ Interface Software

- Allows multiple connected systems share data with the electronic medical records (EMR) system.
- Works with various hospital information systems (HIS), giving access to patient information from any location linked to the facility's EMR system.

Interested in learning more?
View our Ascent software video playlist:



SPECIFICATIONS

SYSTEM COMPATIBILITY

- Platinum Elite™ body plethysmograph
- CPFS/D USB™ spirometer
- Ultima Series™ cardiorespiratory diagnostic systems (all models)

WORKSTATION REQUIREMENTS

- Windows 10 Pro/Enterprise
- Windows 11 Pro/Enterprise
- Hard Drive: 250+ GB recommended
- Memory: 16+ GB min
- Display Resolution: 1920 x 1080 or higher recommended / 1024x768 minimum
- 3+ USB ports

MGC DIAGNOSTICS CORPORATION, through its subsidiary Medical Graphics Corporation
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Part# 060152-001 RevD

