The Medmont M700 Automated Perimeter offers practitioners an effective tool for assessing visual fields. With the advent of Fast Thresholding capabilities to improve patient comfort, perimetry is now more efficient for monitoring and assessment of disease.

**VISUAL FIELD COVERAGE**

The concentric test point density, which increases towards the fovea, facilitates accurate determination of field loss, particularly for arcuate and small macula defects. In the standard 30° field, 100 test points are typically used with a macula region point density of 3°.

With a test capability extended to 80°, the M700 provides a complete diagnosis of a patient’s visual field, allowing peripheral defects not associated with the central field to be explored.

**TESTING SPEED**

Advances in visual field testing techniques have resulted in the introduction of a fast threshold test strategy. With the use of advanced predictive logic algorithms, a central field test can be completed in as little as 3 minutes per eye, without compromising testing accuracy. For all tests, patient response time is continuously monitored and the speed of the stimulus presentation is adjusted accordingly.

**PRACTICE MANAGEMENT INTEGRATION**

Database integration with practice management systems and other Medmont products is now possible utilising Medmont Studio. This negates the need for multiple patient entry and improves markedly the efficiency of the practice. Several M700 units can operate on a local or geographically remote network, sharing a database.

**UNIQUE TEST FACILITIES**

**BINOCULAR DRIVING TEST:** Meeting worldwide standards to check a driver’s visual field, this test covers 160° of a patient’s visual field.

**FLICKER TEST:** Tests with a flickering stimulus provide improved sensitivity and earlier detection of field loss over normal static perimetry. The M700 offers this facility with a special test strategy, which requires the patient to respond to the presence of flicker in the stimulus.

**DIPLOPIA TEST:** The M700 provides a unique diplopia test, where targets are presented in a sequence requiring a progressive change in the direction of gaze by the patient. Indication of a double image results in automatic detailed examination of that area of gaze.

**OPERATIONAL SIMPLICITY**

With an easy to use but comprehensive menu operating under Microsoft Windows™ no previous computer experience or detailed perimetry knowledge is required to operate the M700.

**ADVANCED SYSTEM ANALYSIS**

- New 3D HoV display
- Global statistics
- Regression and histogram analysis
- HoV profile analysis
- Difference analysis
- Full patient history via thumbnails

**SYSTEM MAINTENANCE**

The fully electronic stimulator unit, with no moving parts, together with standard computer hardware, results in minimal maintenance requirements. There are no routine service requirements for the M700.

**PATIENT COMFORT**

The open, modern, ergonomic design of the M700 overcomes the claustrophobic problem and lack of ventilation often experienced in full bowl perimeters. Improved patient comfort will result in more reliable field tests.

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**M700 COLOUR DISPLAY**

A colour display of a visual field map, with a significant macula loss.

**M700 DIFFERENCE VIEW**

Numeric difference of two results, highlighting points of significant loss.

**M700 TEST SCREEN**

A typical test screen showing a glaucoma test field pattern.
**SPECIFICATIONS – M700 USB**

**STIMULATOR SCREEN:**
Part hemispherical bowl, radius 30cm integrated diffusing surface.

<table>
<thead>
<tr>
<th>TEST FIELDS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Central 30°:</td>
<td>100 points</td>
</tr>
<tr>
<td>Full 50°:</td>
<td>164 points</td>
</tr>
<tr>
<td>Peripheral 30° – 50°:</td>
<td>72 points</td>
</tr>
<tr>
<td>Macula 10°:</td>
<td>49 points</td>
</tr>
<tr>
<td>Glaucoma 22°/50°:</td>
<td>104 points</td>
</tr>
<tr>
<td>Neurological 50°:</td>
<td>164 points</td>
</tr>
<tr>
<td>Central 22A:</td>
<td>45 to 96 points</td>
</tr>
<tr>
<td>Flicker 15°/22°:</td>
<td>74 points</td>
</tr>
<tr>
<td>Driving 50°/80°:</td>
<td>107 points</td>
</tr>
<tr>
<td>Binocular 30°/40°:</td>
<td>21 to 128 points</td>
</tr>
<tr>
<td>Binocular Driving Test 160°:</td>
<td>120 points</td>
</tr>
</tbody>
</table>

**STIMULUS SOURCE:**
Rear projection light emitting diode

**STIMULUS COLOUR:**
Pale green - wavelength 565nm, half bandwidth 28nm

**STIMULUS SIZE:**
Goldmann Size III (0.43°)

**STIMULUS INTENSITY:**
0.03 – 1000 asb in 15 x 3dB steps / 45 x 1dB steps (0.01 – 383cd/m²)

**STIMULUS DURATION:**
Adjustable: 0.1 to 9.9 sec. (nom. 0.2 sec)

**PATIENT RESPONSE TIME:**
a) Adaptive to patient speed
b) Operator selection of normal or slow ranges
c) Adjustable: 0.1 to 9.9 sec (nom. 1.1 sec)

**MINIMUM INTER-STIMULUS DELAY:**
Adjustable 0.1 to 9.9 sec (nom. 0.4 sec)

**BACKGROUND ILLUMINATION:**
10 asb (3.2cd/m²), automatic level control
31.5 asb (10cd/m²) – German driving test

**TEST LENS DIAMETER:**
38mm

**FIXATION METHOD:**

**STIMULATOR UNIT DIMENSIONS:**
626mm wide x 438mm deep x 713mm high

**STIMULATOR UNIT WEIGHT:**
14kg

**STIMULATOR UNIT POWER:**
110/220/240 VAC 65VA 50/60Hz

**PC MIN REQUIREMENTS:**
Compliant to IEC 60950 and powered via medical isolation transformer. Pentium IV, 1GHz, 512 MB RAM, 80GB HD, 2 x USB2 ports*, Windows 2000/XP/CD or DVD, 17” monitor.

**PRINTER:**
Compliant to IEC 60950 Bubblejet/Laser Colour/Black & White

**BACKUP:**
Choice of CD ROM/DVD/External HD etc.

*1 required for dongle based licensing system

Note: These specifications are subject to change without notification. © June 2006.
M700 FEATURES

→ Rapid testing times
→ Full field coverage (160°)
→ Advanced fast threshold testing strategy, employing Bayesian testing techniques
→ Flicker test facility, with proven early field loss detection capability
→ Patient reliability indicators:
  - False positives
  - False negatives
  - Fixation losses
  - Video eye monitor
→ Field analysis tools:
  - Pattern defect index (PD)
  - Overall defect index (OD)
  - Cluster analysis (glaucoma) index
  - Regression analysis over entire field or localised areas
→ Display options:
  - Grey scale
  - Numeric decibel data
  - Patient Hill of Vision deviation (localised defect identification)
  - Age Normal deviation (general depression identification)
  - Severity of loss indicators [relative probability of loss]
→ Result outputs:
  - Single result per page
  - Left eye/Right eye on one page
  - Difference maps
  - Multiprint with 5 results per page [extendable]
  - Regression graphs printing:
    - Pattern defect index
    - Overall defect index
    - Data histograms
    - IOP
  - 3D display
→ Microsoft Windows™ based software:
  - inter/intra network compatible
  - linkage to external databases
→ No regular servicing or maintenance requirements