### Overview

**Instadose®**

- Revolutionary wireless capabilities enable immediate anytime/anywhere dose captures, reads, reporting.
- The only accredited USB-compatible dosimeter enabling anytime radiation dose measurements.
- Apectionary dosimeter can be re-read multiple times—enabling re-evaluation into unusual exposures.
- Unlike other TLD dosimeters, Genesis Ultra TLD offers increased signal response with virtually no fading.
- Designed for occupational radiation, can also be used for area monitoring.

**Genesis Ultra TLD™**

- Designed for occupational radiation, can also be used for area monitoring.
- Wear periods of 1 week to 6 mos.
- Unique serial number for identification and tracking.
- Whole body, area monitoring.
- Thermal, intermediate and fast neutron capability.
- Deep, shallow, lens of eye doses.

### Features

**Instadose**

- Bluetooth wireless transmission of dose reads via mobile smartphone devices, InstaLink, InstaLink+USB.
- NO collection/redistribution process.
- Immediate online reporting.
- Unlimited, on-demand dose reads.
- Automatic (calendar-configurable) dose reads.
- Unlimited dose reads.
- Eliminates badge collection and redistribution process.
- Immediate online reporting.
- Improved compliance.
- Permanently barcoded for user identification and tracking.
- Whole body, area monitoring.
- Rotational clip.
- Protective blister pack enables accurate readings even when exposed to extreme temperatures or moisture.
- Wear periods of 1 week to 6 mos.
- Unique serial number for identification and tracking.
- Whole body, body, area monitoring.
- Thermal, intermediate and fast neutron capability.
- Deep, shallow, lens of eye doses.

**Genesis Ultra TLD™**

- Individually calibrated.
- Available in 4 sizes.
- Can be immersed in water and cold sterilized using Glutaraldehyde-5% wgt.
- Ultra Ring
  - Strong hard plastic construction.
  - Available in 3 sizes.
- Flex Ring
  - Soft plastic construction with velcro closure straps.

### Accreditations

**Genesis Ultra TLD™**

- Canadian: CNSC
- Various other countries

**Ultra Ring**

- Various other countries

**Flex Ring**

- Various other countries

### Applications

**Instadose**

- Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.
- Anyone potentially exposed to occupational radiation.
- Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.

**Genesis Ultra TLD™**

- Individuals handling radiosotopes, performing interventional radiographic procedures, or who have a higher risk of radiation exposure to their hands and fingers.

### Min. Reportable Dose (MRD) & Useful Dose Range

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<tr>
<th>Dose Range</th>
<th>Technology</th>
<th>Detectors</th>
<th>Packaging</th>
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</thead>
<tbody>
<tr>
<td>Photon: 5 keV - 6 MeV</td>
<td>Direct Ion Storage (DIS) device w/ BILE Technology</td>
<td>Direct Ion Storage (DIS) device</td>
<td>Single Chip 5LiF-Mg, Cu, P Powder Chopsinte (TLD100H)</td>
</tr>
<tr>
<td>Photon: 5 keV - 6 MeV</td>
<td>Direct Ion Storage (DIS) device</td>
<td>Direct Ion Storage (DIS) device</td>
<td>Single Chip 5LiF-Mg, Ti (TLD100 loose chip)</td>
</tr>
</tbody>
</table>

### Energy Response

<table>
<thead>
<tr>
<th>Photon 5 keV - 6 MeV</th>
<th>Direct Ion Storage (DIS) device</th>
<th>Direct Ion Storage (DIS) device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beta ≥ 0.8 MeV</td>
<td>4-Element TLD 3 LiF-Mg, Cu, P (TLD300F)</td>
<td>4-Element TLD 3 LiF-Mg, Cu, P (TLD600F)</td>
</tr>
<tr>
<td>Photon 5 keV - 6 MeV</td>
<td>10 mrem - 1000 rem (0.10 mSv - 10 Sv)</td>
<td>10 mrem - 1000 rem (0.10 mSv - 10 Sv)</td>
</tr>
<tr>
<td>Photon 12 keV - 7 MeV</td>
<td>1 mrem - 100 rad (0.01 mSv - 100 mSv)</td>
<td>20 mrem - 1000 rem (0.20 mSv - 10 Sv)</td>
</tr>
<tr>
<td>Photon 20 keV - 6 MeV</td>
<td>20 mrem - 1000 rem (0.20 mSv - 10 Sv)</td>
<td>20 mrem - 1000 rem (0.20 mSv - 10 Sv)</td>
</tr>
</tbody>
</table>

### Holder Type

**Instadose**

- BP (Blister Pack)
- DA, DB, DL, DW

**Genesis Ultra TLD™**

- Various other countries
- Various other countries
- Various other countries
- Various other countries

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**AWARD WINNING PATENT**

*Most Innovative On-Demand Dosimetry System*

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*1 Upper limits of specifications achieved using correction factors.
2 Instadose dosimeters can be read at your facility up to a cumulative dose of 100 mSv (10 rem). For exposures exceeding this limit, or when used outside of occupational monitoring, the dosimeter would need to be sent to Mirion Technologies Dosimetry Services Division (C20) for processing and reporting. Additional fees may apply.
3 Neutron energies up to 20 MeV with CR39 and special calibration.
4 The use of sterilization solutions should be in accordance with manufacturer’s instructions.
5 Not accredited for personnel monitoring.*
<table>
<thead>
<tr>
<th>Badge Type</th>
<th>Specialty Dosimeters</th>
<th>Features</th>
<th>Applications</th>
<th>Description</th>
<th>Min. Reportable Dose (MRD) &amp; Useful Dose Range</th>
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<th>Accreditation/Licenses</th>
<th>Badge Type</th>
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</thead>
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<tr>
<td>Badge Type 13</td>
<td>Fingertip</td>
<td>Rings and fingertip dosimeters are ideal for low or high energy beta, X-ray or gamma radiation monitoring of hands and fingers. Eye dosimeters provide accurate readings for radiation received to the vicinity of the eye. Consisting of one natural lithium fluoride element sealed in a plastic holder that mimics the density of the eye.</td>
<td>Individuals handling radioisotopes, performing interventional radiographic procedures, or who have a higher risk of radiation exposure to their hands and fingers.</td>
<td>Single Powder Chip of LiF-Mg, Cu, P (TLD100H)</td>
<td>20 mrem - 1000 rem (0.20 mSv - 10 Gy)</td>
<td>Beta: 0.251 MeV - 5 MeV(^<em>) Photon: 20 keV - 6 MeV(^</em>)</td>
<td>UK: HSE</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Badge Type 27</td>
<td>Eye</td>
<td>Eye dosimeters are well-suited to monitor low-level photon radiation and withstand the most intense environmental situations. Ideal for use where radiation dose levels exist between 2 and 500,000 rads.</td>
<td>Designed for outdoor applications such as: Site Characterizations Site Boundary Regulatory Compliance Public Exposure Monitoring</td>
<td>Single Chip 'LiF-Mg, Ti (TLD100 loose chip) 110: 4-Element TLD: 2 CaF(_2) Dy (TLD200) and 2 LiF-Mg, Ti (TLD100) 814: 4-Element TLD: 1 LiBO(_2) Mn (TLD800) and 3 CaSO(_2) Dy (TLD900)</td>
<td>20 mrad - 500 rad (0.05 mSv - 5 Gy)</td>
<td>Photon: 40 keV - 6 MeV</td>
<td>ANSI N545-1975</td>
<td>27 (Eye)****</td>
<td></td>
</tr>
<tr>
<td>Badge Type 17</td>
<td>Environmental 110 &amp; 814</td>
<td>Single Chip 'LiF-Mg, Cu, P Powder Chipstrate (TLD100H) OR Single Chip 'LiF-Mg, Ti (TLD100 loose chip)</td>
<td>Designed for outdoor applications such as: Site Characterizations Site Boundary Regulatory Compliance Public Exposure Monitoring</td>
<td>Single Chip 'LiF-Mg, Cu, P Powder Chipstrate (TLD100H) ON Single Chip 'LiF-Mg, Ti (TLD100 loose chip)</td>
<td>20 mrem - 500 krad (0.20 mSv - 50 Gy)</td>
<td>Optical density filters can be employed to measure higher levels.</td>
<td>US: NVLAP (lab code 100555-0)</td>
<td>17 (Environmental 110)**** 20 (Environmental 814)****</td>
<td></td>
</tr>
<tr>
<td>Badge Type 20</td>
<td>High Dose</td>
<td>High Dose dosimeters are well suited to monitor high-level photon radiation and withstand the most intense environmental situations. Ideal for use where radiation dose levels exist between 2 and 500,000 rads.</td>
<td>Designed for outdoor applications such as: Site Characterizations Site Boundary Regulatory Compliance Public Exposure Monitoring</td>
<td>Single Chip 'LiF-Mg, Cu, P Powder Chipstrate (TLD100H) ON Single Chip 'LiF-Mg, Ti (TLD100 loose chip)</td>
<td>20 mrem - 500 krad (0.20 mSv - 50 Gy)</td>
<td>Optical density filters can be employed to measure higher levels.</td>
<td>US: NVLAP (lab code 100555-0)</td>
<td>11 (High Dose LiF Loose Chip)**** 12 (High Dose LiF Chipstrate)****</td>
<td></td>
</tr>
<tr>
<td>Badge Type 11, 12</td>
<td>REMtrack Wallet Cards</td>
<td>REMtrack wallet cards consist of natural lithium fluoride chips positioned between high quality paper and polyethylene laminate material.</td>
<td>Extensively used by counter-terrorism operations, law enforcement, and radiation emergency situations, REMtrack offers an accurate chain-of-custody through the analysis process.</td>
<td>Single Chip 'LiF-Mg, Ti (TLD100 loose chip)</td>
<td>20 mrem - 1000 rad (0.20 mSv - 10 Gy)</td>
<td>Radiation Therapy Research Equipment Calibrations Sterilization Applications</td>
<td>U.S./Canada +1.800.251.3331  U.K. 0170.629.6329 Worldwide +1.949.419.1000 Email: <a href="mailto:dsd-support@mirion.com">dsd-support@mirion.com</a></td>
<td>21 (One LiF chip) 22 (Two LiF chips) 23 (One LiF chip with 115 In)**** 24 (Two LiF chips with 115 In)****</td>
<td></td>
</tr>
</tbody>
</table>

\(^*\) Upper limits of specifications achieved using correction factors.

\(^\text{***}\) The use of sterilization solutions should be in accordance with manufacturer’s instructions.

\(^\text{****}\) Not accredited for personnel monitoring.

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