DOSIMETRY SERVICES

A MIRION MEDICAL COMPANY

Personal Dosimeters	Badge Type 38 **Instadose®2**	Badge Type 37 **Instadose+®**	Badge Type 31 **Instadose®**	Badge Type 30 **APex™**	Badge Type 36 (TLMCP) & 35 (TLDMCP w/ CR 39) **Genesis Ultra TLD-BP™**	Badge Type 19 **MeasuRing™**	Badge Type 18 **Ultra™ & Flex™**
Overview	All the revolutionary capabilities of Instadose+, now with measurements for beta radiation sources.	Revolutionary wireless capabilities enable immediate anytime/ anywhere dose captures, reads, reporting.	The only accredited USB-compatible dosimeter enabling anytime radiation dose measurements.	APex dosimeter can be re-read multiple times—enabling re-evaluation into unusual exposures.	Unlike other TLD dosimeters, Genesis Ultra TLD-BP offers increased signal response with virtually no fading.	Rings and fingertip dosimeters are ideal for low or high energy beta, X-ray or gamma radiation monitoring of hands and fingers.	
Features	• Bluetooth wireless transmission of dose reads via mobile smart devices, InstaLink Hotspot, or InstaLink™-USB. • NO collection/redistribution process. • Immediate online reporting. • Unlimited, on-demand dose reads. • Automatic (calendar-configurable) dose reads.	• Bluetooth wireless transmission of dose reads via mobile smart devices, InstaLink Hotspot, or 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.	Lightweight, low-profile thermoluminescent dosimeter with enhanced user factors. Two-part design decreases processing time and shipping costs, while sealed plastic blister pack improves protection of internal parts. • Unique serial number for identification and tracking. • Whole body, wrist, area monitoring. • Thermal, intermediate and fast neutron capability. • Sealed plastic blister pack improves protection of internal parts. • Lightweight two-part design decreases processing time and reducing shipping cost.	• Individually calibrated. • Available in 4 sizes. • Can be immersed in water and cold sterilized using Glutaraldehyde<5% wgt, or Ortho-Phthalaldehyde (1,2 – beznzenedicarboxaldehyde) <1% wgt.***	**Ultra Ring** • Strong hard plastic construction. • Available in 3 sizes. **Flex Ring** • Soft plastic construction with velcro closure straps. • (Ultra and Flex Rings cannot be sterilized.)
Applications	Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.	Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.	Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.	Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.	Anyone potentially exposed to occupational radiation. Can also be used for area monitoring.	Individuals handling radioisotopes, performing interventional radiographic procedures, or who have a higher risk of radiation exposure to their hands and fingers.	
Description	Dual Detectors [Deep: Hp(10) and Shallow: Hp(0.07)] Direct Ion Storage (DIS) Technology Bluetooth® Wireless Technology	Direct Ion Storage (DIS) device with BLE Technology	Direct Ion Storage (DIS) device	Optically Stimulated Luminescense (OSL) technology with 2-Element Beryllium Oxide (BeO)	4-Element TLD 3 ^{7}LiF:Mg, Cu, P (TLD700H) and 1 ^{6}LiF:Mg, Cu, P (TLD600H)	Single Chip ^{n}LiF:Mg, Cu, P Powder Chipstrate (TLD100H)	Single Chip ^{n}LiF:Mg, Ti (TLD100 loose chip)
Min. Reportable Dose (MRD) & Useful Dose Range	10 mrem - 500 rem* (0.1 mSv - 5 Sv)	5 mrem - 500 rem* (0.05 mSv - 5 Sv)	3 mrem - 500 rem* (0.03 mSv - 5 Sv) (1 mrem (0.01 mSv) upon request)	10 mrem - 1000 rem (0.10 mSv - 10 Sv)	1 mrem - 1000 rad (0.01 mSv - 10 Gy)	20 mrem - 1000 rem (0.20 mSv - 10 Sv)	20 mrem - 1000 rem (0.20 mSv - 10 Sv)
Energy Response	Photon 5 keV - 6 MeV Beta ≥0.8 MeV	Photon 5 keV - 6 MeV	Photon 5 keV - 6 MeV	Beta: 0.565 MeV - 5 MeV Photon: 12 keV - 7 MeV	Beta: 0.251 MeV - 5 MeV Photon: 5 keV - 6 MeV Neutron (TLD): Thermal - 6 MeV[1] Neutron (CR39): 200 keV - 6 MeV**	Beta: 0.251 MeV - 5 MeV[1] Photon: 20 keV - 6 MeV[1]	**Ultra Ring** Beta: 0.251 MeV - 5 MeV[1] Photon: 20 keV - 6 MeV[1] **Flex Ring** Beta: 0.251 MeV - 5 MeV****[1] Photon: 20 keV - 6 MeV[1]
Accreditations	US: NVLAP (lab code 100555-0) Various other countries	US: NVLAP (lab code 100555-0) UK: HSE Various other countries	US: NVLAP (lab code 100555-0) UK: HSE (DS 9/2010) Various other countries	US: NVLAP (lab code 100555-0) UK: HSE (DS 9/2010) Various other countries	US: NVLAP (lab code 100555-0) UK: HSE (DS 9/2010) DoELAP Various other countries	US: NVLAP (lab code 100555-0) UK: HSE (DS 9/2010) DoELAP Canada: CNSC Various other countries	**Ultra Ring** US: NVLAP (lab code 100555-0) Canada: CNSC **Flex Ring** NVLAP (lab code 100555-0, Photon Only)
Holder Type Ring sizes and measurements are approximate.	**AWARD WINNING PATENT** ***Most Innovative On-Demand Dosimetry System***			BP (Blister Pack)	DA, DB, DL, DW	MS=Small size 5.5 (16.1 mm) MM=Medium size 8 (18.1 mm) ML=Large size 11 (20.6 mm) MX=Xlarge size 14.5 (23.4 mm)	HS=Small size 6-8 (red) HM=Medium size 7-9 (black) HL=Large size 10-14 (blue) RF=Flex Ring one size (velcro strap)

1 Upper limits of specifications achieved using correction factors.

*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 (DSD) for processing and reporting. Additional fees may apply.

** Neutron energies up to 20 MeV with CR39 and special calibration.

*** The use of sterilization solutions should be in accordance with manufacturer's instructions.

**** Not accredited for personnel monitoring.

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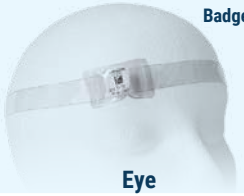
Specialty Dosimeters	Badge Type 13 Fingertip	Badge Type 27  Eye	Badge Type 17 Badge Type 20 Environmental 110 & 814	Badge Type 11, 12 High Dose	Badge Type 21, 22, 23, 24 REMtrack™ Wallet Cards
Overview	Rings and fingertip dosimeters are ideal for low or high energy beta, X-ray or gamma radiation monitoring 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.	Environmental 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.	REMtrack wallet cards consist of natural lithium fluoride chips positioned between high quality paper and polyethylene laminate material.
Features	• Comfortable, flexible design. • Individually calibrated. • Sealed pouch allows for cold sterilization.***	• Adjustable head strap. • Wear periods of 1 week to 1 qtr. • Uniquely barcoded and labeled for easy identification and chain of custody. • Can be cold sterilized using Glutaraldehyde<5% wgt, or Ortho-Phthalaldehyde (1,2 – benzenedicarboxaldehyde)<1% wgt.***	• Outdoor use. • Polypropylene holder and tamper-resistant pouch can be attached to fences, gates, trees, or other environmental objects for quick access. • Issued reports make it easy to compare to ion chamber results.	• Energy and dose independent (≤1000 rads). • Three unique configurations. • Uniquely barcoded and labeled for easy identification and chain of custody.	• Convenient credit card size. • Choice of wallet card or clip-on badge. • Uniquely barcoded and labeled for easy identification and tracking. • Second chip option. • Can be customized with company logo.
Applications	Individuals handling radioisotopes, performing interventional radiographic procedures, or who have a higher risk of radiation exposure to their hands and fingers.	Individuals who have a higher risk of radiation exposure to localized sources (eg cath lab, fluoroscopy, etc.)	Designed for outdoor applications such as: • Site Characterizations • Site Boundary Regulatory Compliance • Public Exposure Monitoring	• Radiation Therapy • Research Equipment Calibrations • Sterilization Applications	Extensively used by counter-terrorism operations, law enforcement, and radiation emergency situations, REMtrack offers an accurate chain-of-custody through the analysis process.
Description	Single Powder Chip of ^{n}LiF:Mg, Cu, P (TLD100H)	Single Chip ^{n}LiF:Mg, Ti (TLD100 loose chip)	110: 4-Element TLD: 2 CaF:Dy (TLD200) and 2 LiF:Mg, Ti (TLD100) 814: 4-Element TLD: 1 LiBO:Mn (TLD800) and 3 CaSO:Dy (TLD900)	Single Chip ^{n}LiF:Mg, Cu, P Powder Chipstrate (TLD100H) OR Single Chip ^{n}LiF:Mg, Ti (TLD100 loose chip)	Single Chip ^{n}LiF:Mg, Ti (TLD100 loose chip)
Min. Reportable Dose (MRD) & Useful Dose Range	20 mrem - 1000 rem (0.20 mSv - 10 Sv)	20 mrem - 1000 rad (0.20 mSv - 10 Gy)	5 mrad - 500 rad (0.05 mGy - 5 Gy)	20 mrem - 500 krad (0.20 mSv - 5kGy) Optical density filters can be employed to measure higher levels.	20 mrem - 1000 rad (0.20 mSv - 10 Gy)
Energy Response	Beta: 0.251 MeV - 5 MeV[1] Photon: 20 keV - 6 MeV[1]	Beta: 0.251 MeV - 5 MeV[1] Photon: 20 keV - 6 MeV[1]	Photon: 40 keV - 6 MeV	Beta: 0.251 MeV - 5 MeV[1] Photon: 20 keV - 6 MeV[1]	Beta: 0.251 MeV - 5 MeV****[1] Photon: 20 keV - 6 MeV[1]
Accreditations /Approvals/ Licenses	UK: HSE		ANSI N545-1975		US: NVLAP (lab code 100555-0)
Badge Type	13	27 (Eye)****	17 (Environmental 110)**** 20 (Environmental 814)****	11 (High Dose LiF Loose Chip)**** 12 (High Dose LiF Chipstrate)****	21 (One LiF chip) 22 (Two LiF chips) 23 (One LiF chip with 115 In)**** 24 (Two LiF chips with 115 In)****
Holder Type	TS=Small TM=Medium 20 mm TL=Large 24 mm	EY	110: EA, EB, EC 814: CA, HA, SA	LC, BH	WC

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- Service requests
- Radiation Reports
- Account updates

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OPS-4243 – 07/2022