

Providing Insight Onsite

# **Tracerco Personal Electronic Dosimeter**









#### Content



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- Readings screen
- Menu options
- Alarms & Functions
- DoseVision software
- Data
- Service & maintenance







#### **PED Family overview**





between energy range 33 keV to 1.3 MeV



#### **Readings Screen**







#### Readings Screen PED+ Handheld Survey Mode



& Servicing



#### **Menu Options PED-IS/Blue**







#### **Menu Options PED+**





#### Alarms

• The Tracerco PED range have 4 alarms for dose and dose rate



# Vibrational – activated at preset thresholds



#### Visual (1) – traffic lights





#### Audible - bleeper



Visual (2) – Dose man & bar graph





#### Alarms



 PED-IS/Blue/PED+ - option for 2 or 4 alarm thresholds: yellow, amber, red, crimson adjustable via DoseVision software according to operator local rules

 Long press to acknowledge audible alarm to silence and stop vibration, lights will continue to flash if alarm level is exceeded







#### **Task Function**

- Allows operator to monitor their dose and peak rate over a particular time period or task they are undertaking
- Operator can record infinite number of tasks in between downloading data to PC
- Tasks can be viewed on the PED on site and by using DoseVision software
- Task data can be reviewed on the device by selecting the task number









#### Flip screen & position on body



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- Flip the screen for further enhanced screen view
- Attached the PED to belt or top pocket most suitable position for logging radiation dose exposure to body





#### **Screen saver**

- The Tracerco PED range utilises a rechargeable Li-ion battery
- 300 hours battery life continuous use in screen saver mode
- 30 hours continuous use in full screen mode
- Best practice to use screen saver





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### Settings & Status – PED-IS/Blue



- Power status
- Monitor Details unique ID, serial number, firmware version and memory indication, contact information for Tracerco
- Time Zone option
- Language 9 options
- Activity Sounder Typical 12 cpm. Manage 'click' event interval
  - ÷ 1 = 'click' every time a radioactive particle is detected.
  - ÷ **30** = 'click' interval of about 2.5 minutes.
- Readings screen menu type: accumulated dose & dose rate, dose rate only, accumulated dose only
- Device log reset (to 0) or delete (wipe entirely)



### **Settings & Status – PED+**



- Power status
- Monitor Details unique ID, serial number, firmware version and memory indication, contact information for Tracerco
- Time Zone option
- Language 9 options
- Activity Sounder Typical 12 cpm. Manage 'click' event interval
  - ÷ 1 = 'click' every time a radioactive particle is detected.
  - ÷ **30** = 'click' interval of about 2.5 minutes.
- Readings screen menu type: accumulated dose & dose rate, dose rate only, accumulated dose only
- Device log reset (to 0) or delete (wipe entirely)
- Bluetooth/GPS, toggle on or off



#### **Errors & recovery actions**



- Self diagnostic diplays any errors on screen
- System check light green change to red
- Status warning message attention required but PED will continue to function
- Critical malfunction warning PED no longer operating accurately





#### **Dosevision software**



- FREE with the PED including all updates via the Tracerco website <u>www.tracerco.com/</u> <u>monitors</u>
- Install from CD or website
- Compatible with windows XP, Vista and 7



 PED communicates via dock and usb PC connection



#### Home



- PED Information
- Get Dose Data
- Clear Dose Data





#### **Settings**





#### **Settings**





#### **Settings**



 Popup Alarm messages (PED+ Only)

Three programmable lines of text to appear when dose and dose rate limits are reached.





#### **Set Admin Password**



- Set Password
- Locks out Options
- Stops Dose being deleted
- Stored on PC
- Get Admin Access
- Get Forgotten Password

Set Admin Pas	ssword		×
Password:			Show
	Remember		
		Ok	Cancel



#### **Users**



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- List of Current
  Users
- Add User
- Assign User to PED
- Details
- Graph
- Delete
- Create a
  Report

OSE VISION Home Settings Users Data		indee		
Add User			F	leport
Adam Demo 1 Date Range: 29 Oct 2012 - 14 Jan 2013	Assign To PED	Details	Graph	Del
<b>Ann</b> Date Range: 26 Feb 2013 - 14 Mar 2013				
<b>Donna Chapman</b> Date Range: 13 Feb 2013, 15:00 - 15:00				
Exhibition 2 Date Range: 22 Nov 2012 - 6 Feb 2013				
Exhibition 3 Date Range: 28 Mar 2012 - 8 Mar 2013				
<b>Rebecca</b> Date Range: 17 Oct 2012 - 19 Jan 2014				
<b>Rental G17</b> Date Range: 13 Feb 2013, 14:56 - 16:18				
<b>Steve</b> Date Range: 14 May 2013, 10:50 - 13:37				
<b>T Partington</b> Date Range: 20 Mar 2013 - 14 May 2013				
<b>Test User</b> Date Range: 14 Jan 2013, 16:53 - 16:53				
<b>Trial T55</b> Date Range: 3 Sep 2012 - 13 Feb 2013				
<b>Trial T87</b> Date Range: 13 Feb 2013, 15:03 - 15:03				
<b>User 1</b> Date Range: 1 Jan 2010 - 12 Jan 2014				



#### **Users**



- Assign User to PED – downloads data to user file and clears data from device
- Details

Assign User
This will: save all unused data (this may take some time) reset the accumulated dose clear all logs from the PED assign the new username to the PED. Proceed?
Yes No

User Details	X
PED User ID	Adam Demo 1
First Name	
Last Name	
Location	
Organization	
Employment No	
Date of birth	01 January 1900 🗐 🔻
Other info	
	Ok Cancel



#### **Reports**

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- Generate
  Report
- Select Dates
- Format HTML/RFT
- Select Users
- View as document, email as document

Generate report			×
Start date			
27 December 2013			
End date			
27 January 2014			
Report format			
RTF			
◎ HTML			
Select users			
🔲 Adam Demo 1			
Ann 📃			
📃 Donna Chapman			=
Exhibition 2			
Exhibition 3			
Rebecca			
Rental G17			-
Vie	W	Email	Cancel

Ge	enerate report
	Please wait while the report is generated.



## Reports

TRACERCO PED RADIATION EXPOSURE REPORT REPORT CREATION DATE: 27/01/2014

PED USER NAME	FULL NAME	ORGANI SATION	MONITORING PERIOD		CUMULATIVE DOSE TOTALS mSv			EMPLOYEE	
			START DATE	END DATE	DOSEHp (10) (mSv)	YEAR TO DATE	LIFETIME RECORD	DATE OF BIRTH	REFERENCE
ADAM DEMO 1	-	-	27/12/2013	27/01/2014	0.00	0.00	0.02	-	-
ANN	-	-	27/12/2013	27/01/2014	0.00	0.00	0.02	-	-
DONNA CHAPMAN	-	-	27/12/2013	27/01/2014	0.00	0.00	0.00	-	-
EXHIBITION 2	-	-	27/12/2013	27/01/2014	0.00	0.00	0.01	-	-
EXHIBITION 3	-	-	27/12/2013	27/01/2014	0.00	0.00	0.01	-	-
REBECCA	-	-	27/12/2013	27/01/2014	0.04	0.04	0.04	01/01/1900	-
RENTAL G17	-	-	27/12/2013	27/01/2014	0.00	0.00	0.00	-	-





#### Data



- Select User
- Changes Dates
- Viewing Options
  - Graph
  - Map view
- Print
- Reports
- Email
- Export
- Options



 Review minute level data by drilling into the graphical bars

 Click the purple bars at the top of the screen to view specific task data





& Servicing



- Data will only be available for PED+ devices with GPS mode enabled
- Map view will only be available when internet access is available
- Adjust the date range
- Select Alarm View, Dose View or Dose Rate View
- Zoom in or out and refresh the map view







#### Data – Print, Report



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Tracerco DoseVision™ \_ 🗆 × Home Settings Users Data 16 Mar 2015 Export Print graphical ٠ 1.5 X Print information Printer Name Xerox 5860 -Properties... Status: Offline; 0 documents waiting Xerox Phaser 6180MFP-D PS Type: Generate reports for Where: 192,168,1,200 -4 ٠ Comment Print to file multiple users over a Print range Copies 1.0 All 1 \* Number of copies: selected date range Pages from: to: 123 123 ✓ Collate -3 lated Dose (JJSV) Selection (vsu) OK Cancel Tracerco DoseVision™ \_ 🗆 × Home Settings Data 16 Mar 2015 Option +1.5 5 Generate report Start date 4 29 January 2015 - 🗊 End date 16 March 2015 -1.0 Report format RTF Accumulated Dose (µSV) -3 HTML Dose (JJSV) Select users **V** 1560001 -= 🔲 Chris Noakes Coffee machine Crew 1 -2 🗐 Donna Chapman Fred 0.5 George View Email Cancel 1 0.0 Monitors & Servicing 15 22 15 29 1 8 8 2015 Feb 2015 Mar 2015

#### **Email and export**



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- .CSV
- Export Options
- Open in Excel
- DVM Export or Email



#### Monitors & Servicing

# **Viewing Data - Options**

- Dose
- Average Dose Rate received in each time period in bar chart form
- Peak Dose Rate highest dose rate received in between data downloads
- Units view in uSv or mRem
- Time Zone
- Tasks View Task Data
- Accumulated Dose –only when viewing 'Dose'
- Dynamic Axis







Message – Update Available



# Message – Update Available



• The Go to Download button will open a web browser to the software/firmware download location, click the links and follow the instructions to download the files





#### **Message – Update Available**



• Return to the "Settings" Tab and select the "Upgrade Firmware" button, then select the file of choice and click "Open" and follow the on-screen instructions to upgrade the firmware



#### What's new? – DoseVision mobile



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• Viewing radiation dose records on the move!

The DoseVision mobile app allows users to view data files from the Tracerco Personal Electronic Dosimeter (PED).

This app is particularly useful for company Radiation Protection Officers/Advisers that wish to view employee dose records while away from the office. The app will allow radiation workers that are concerned about their recorded doses to send the data files to an expert anywhere in the world for review.

- Assessing accumulated personal dose
- Viewing dose rate history
- Identifying times of peak dose rates
- Viewing user recorded "Task" periods
- Finger scroll through time periods
- Viewing data in uSv or mRem









#### What's new? – DoseVision™ Live Software



- Download the android platform based application from the Google Play store (<u>https://play.google.com/store/apps/details?id=com.tracerco.dose</u> visionlive)
- Pair your PED+ device to a tablet or android phone running DoseVision Live
- Connect to the PED+ device via the application connection management tab
- Access real-time dose and dose rate data from up to 7 paired and connected PED+ devices











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#### **PED Accessories**

- Disposable anti-static sealed bag
- Travel charger
- Car charger
- Lanyards
- Clips
- Protective carry case
- Protective belt holster



#### Monitors & Servicing











#### **Service & Maintenance**

- Tracerco have global service centres for all types of radiation monitoring equipment offering calibration, repair, Hazardous Area equipment service and hire
- Fast turnaround 3-5 working days or sooner
- Tracerco offer a range of intrinsically safe hand held survey and contamination monitors

















# Thank you

www.tracerco.com/monitors Tel: +44(0)1642 375171

