



**MIRION**  
TECHNOLOGIES

Health Physics  
Division

Radiation. **Safety.**



## DMC 3000 Quick User's Guide

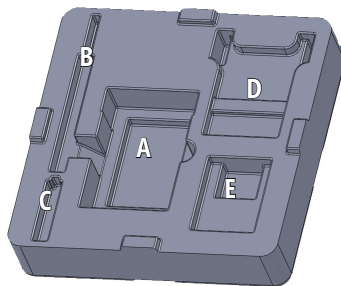
## Welcome to your DMC 3000!

In approaching the opportunity to create a more refined Personal Electronic Dosimeter, we wanted to address first and foremost the needs and desires of our users. We are the leading manufacturer of systems and equipment to protect people and goods from nuclear risks, and designed our next generation dosimeter accordingly.

DMC 3000. Radiation Safety. Perfected.

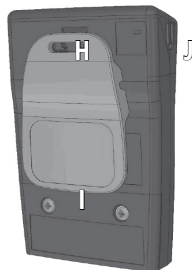
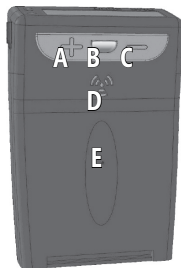
### In this box:

- A. DMC 3000 with standard clip attached.
- B. Torx Screwdriver for battery cover/clip removal.
- C. Single spare AAA alkaline battery.
- D. Optional front-facing clip.
- E. Optional belt clip.



## Your DMC 3000: At a Glance

- A. '+' button. Press in *pause* mode to cycle through available parameters.
- B. Ultra bright red LED.
- C. '-' button. Press in *pause* mode to cycle through available measurements.
- D. Speaker.
- E. Location of detector.
- F. 8-Character backlit LCD display.
- G. Trio of LEDs for alarm and dose increment notification.
- H. Wide, durable clip, replaceable with optional belt clip.
- I. Battery compartment for 1 AAA battery.
- J. Attachment rail for optional front-facing clip.



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## Turning on your DMC 3000

1. From *pause* mode, press and hold the '+' button for 3 seconds.
2. The display will change to 'Enter'.
3. Rapidly release the '+' button, and press the '-' button.
4. After a beep and LED flash the unit will be in *run* mode.



## Turning off your DMC 3000

1. Press and hold the '+' button for 3 seconds.
2. The display will change to 'Exit'.
3. Rapidly release the '+' button, and press the '-' button.
4. After a beep and LED flash the unit will be in *pause* mode.



## Setting Alarms for your DMC 3000

1. From *pause* mode, press and hold the '-' for 3 seconds.
2. The display will change to 'Set Thr.'
3. Rapidly release the '-' button, and press the '+' button.
4. The DMC 3000 will enter programming mode.
5. Press the '-' button until you reach the parameter to be changed.\*
6. Press '+' to start modifying the selected parameter. (display blinks)
7. Press or hold\*\* '+' or '-' to raise or lower the threshold value, respectively.
8. Wait for 5 seconds for the DMC to return to step 4.
9. Wait 10 seconds more for the DMC to return to *pause* mode.

\*Rate Alarm setting used for this example.

\*\*Press to change the value up or down in single increments, hold to rapidly change the value up or down.



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## Key Features of your DMC 3000

- Multiple alarm indications including:
  - Vibrating alarm.
  - 85 dB (A) audible alarm.
  - Forward facing, ultra bright LED.
  - Trio of alarm LEDs on front face.
    - A.** Red (Flash) LED for standard alarms and alarm warnings.
    - B.** Green (Flash) LED for gamma and x-ray dose increment at preset intervals.
    - C.** Blue (Flash) LED for secondary channel (HP 0.07 or Neutron increments at preset intervals.)
- Set points easily programmable via pushbuttons for Dose Alarm, Dose Warning, Rate Alarm, Rate Warning, and Time Limit Alarm.
- Wide viewing angle LCD backlit display.
- Extensive historical data stored in non-volatile memory.
- Units configurable in either mSv,  $\mu$ Sv, or mrem.
- Factory Upgradeable Firmware.



[www.DMC3000.com](http://www.DMC3000.com)

## Characteristics of your DMC 3000

- Energy response (X-ray and gamma) from 15 keV to 7 Mev.
- Energy response better than  $\pm 20\%$ . (typically  $\pm 10\%$ ) from 16 keV to 7 Mev.
- Display units: mSv,  $\mu$ Sv, mrem.
- Dose measurement display range: between 1  $\mu$ Sv and 10 Sv. (0.1 mrem to 1,000 rem.)
- Rate measurement display range: between 10  $\mu$ Sv/hr and 10 Sv/h. (1 mrem/h to 1,000 rem/h.)
- Optional extended rate display between 1  $\mu$ Sv/h and 10 Sv/h. (0.1 mrem/h to 1,000 rem/h.)
- 9 months of battery life under typical use (in *run* mode 8 hours a day, 5 days a week, with nominal alarms).
- 2,500 hours typical battery life in continuous *run* mode (< 0.2% of the time in alarm.)
- Waterproof: 1 meter up to one hour.
- Shock and drop resistant.

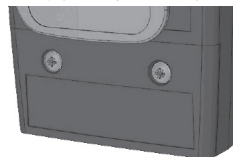
## Caring for your DMC 3000

When the battery starts to approach the end of its life, the DMC 3000 will display an alert message, and in *run* mode is coupled with periodic flashes of the LED and chirps of the speaker.

The battery can be changed by removing the two Torx screws on the back cover and replacing it with a single (1.5V) AAA alkaline battery.



*In run mode, once the battery gets low, the DMC will also display remaining hours of battery life.*



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