INSTALLATION AND OPERATING INSTRUCTIONS FOR THE



Manual Version 6 December 2016



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## 1 Update from Previous Version

This manual is version 06. Below is a table explaining the primary updates from the previous version.

Feature	Location	Explanation
Serial Number Field	Device Settings: Configuration tab	There is now a field in the Device Settings page where you can add the device's serial number.
Acknowledge Alarm	Device Settings: Configuration tab	The Acknowledge Alarm feature, when enabled, causes the Rad-DX alarm to "latch" or to stay alarming when a radiation alarm occurs. The device will not stop alarming until the user presses the Acknowledgement popup on the device. This new feature requires the firmware version 265 be updated on your Rad-DXs.

## 2 Firmware Version

The firmware version for each the DX products are as follows:

- Rad-DX: Version 265
- Mini Rad-DX: Version 113
- DX-link: Version 45

## **3 DX-View Introduction**

The DX-View is a PC application used to monitor and configure Mini Rad-DX, Rad-DX and other DX enabled radiation detectors. The DX-View software is also used to view and download data from one or more Rad-DX radiation detectors. Using this software, you can set radiation alarm levels, view a real-time graph, download historical data and more.

## 3.1 **Products Supported**

This manual supports version 491 of the DX-View software. It also supports configuration and communication with the Rad-DX radiation detector, the Mini Rad-DX handheld PRD, the DX-Link USB radio transmitter, and the Rad-DXG portal monitor.

## 3.2 Username and Password Credentials

In Section 4 you will be directed to our website to register and download the DX-View software. You will not be assigned a Customer ID. You will need to determine your own appropriate Username, Password, and Customer ID. Please record your Username, Password, and Customer ID. For security reasons we do not have the ability to restore or recall your Password if it is lost.

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If for some reason your Password is lost, you will have to create a new account which includes resetting all DX units to their factory default settings and reconfiguring them.

## 4 DX-View Installation

The DX-View software is available for download. To download the software, please follow the steps outlined below.

- 1. Go to the website: <u>https://dx.dtectsystems.com/web/registerScreen.html</u>
- 2. Complete the DX Account registration form. Be sure to check the Download DX-View checkbox before clicking Submit.

Pagistar to areata a DX Des	Welcome to the DX Registration
<ul> <li>Register to download the DX</li> </ul>	X View software
First Name:	
Last Name:	
Company:	
Address:	
City:	
State:	Type the phrase shown below (required)
Zip Code:	Security Phrase:
Telephone:	
Email Address:	
Comments:	
Help	/
	D to ch )))

Figure 1: DX-View and DX-Dashboard Registration Page

- 3. A confirmation email with a link to download the DX-View software will be sent to the specified email address.
- 4. Install DX-View. Several installation windows will appear that will require you to click Next, Install, and Finish. You will also be required to accept the Software License Agreement.

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5. The installer will place the DX-View icon on your desktop. Click the icon to launch the DX-View. Alternately you can navigate to the software by clicking through the Start menu: Start > All Programs > D-tect Systems > DX-View.



#### Figure 2: DX-View Desktop Icon

## 5 Configuration

### 5.1 Home Screen

The Home screen is the first screen displayed when DX-View is opened. The Home screen can show a map or a blueprint. It can also save and display the location of your devices.



Figure 3: DX-View Home Screen

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#### 5.1.1 DX-View Initial Setup

- 1. Turn on device. Once the device has powered up, connect it to your computer via the USB cable. If using a DX-Link USB radio transmitter, plug the transmitter directly into the USB port on your computer.
- 2. After a few moments, the "New device configuration" popup window will appear. You are now creating a secure network for your devices. Please record the username and password. If the username or password is lost, the network will have to be recreated.

Administratos Passuard	
Administrator Password:	
Customer ID:	(Enter a 4 digit hexadecimal number, ie 000

Figure 4: New Device Configuration Window

3. After entering the login credentials, an icon corresponding with the device type will appear on the Home screen.



Figure 5: DX-View Home Screen with One DX-Link Icon

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4. When any of the icons on the Home screen are clicked, the bottom window will be populated with attributes specific to the selected detector such as Device ID, Device Name, Dose Rate, Alarm Level, and Battery Life (if applicable).

### 5.1.2 Adding Devices to the Network

Once a network has been created with DX-View, additional devices can easily be added in two ways:

- Use the USB cable to connect the devices to your PC one at a time.
- Select the Discover button to add multiple devices at the same time that are turned on but not yet configured.

#### 5.1.3 Device Location

The device icons are locked in place by default. To move them click the "Edit Device Locations" button, then click and drag them to any desired location. When you are done, click the "Save Device Locations" button.



Figure 6: Device Location

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**Note:** You will need to click on a device icon on the Home screen before you can view the Graph, History, Device Settings, Download Data, and Upgrade tabs.

### 5.2 Device Settings Screen

You can set or change specific device settings such as device LCD display settings, alarm levels, and communication settings. Click "Submit" to save any of these settings to a device.

Within the Device Settings tab there are 3 tabs—Configuration, Communications, and Firmware Update.

### 5.2.1 Device Settings: Configuration: Rad-DX

The Configuration tab on the Device Settings screen shows a list of items that can be changed on each device. Settings that do not apply to the selected device will be grayed out. You may change the settings for the LCD screen, Device Name, Radiation Unit type, and the time frame of the Graph Window. The Graph Window can be set to 1 minute, 6 minute, or 30 minute intervals.

**Time Zone:** Select the appropriate time zone by clicking on the Time Zone drop-down box, then selecting the correct time zone. Select daylight savings time if necessary.

**Radiation Alarm:** View or edit the four levels of radiation activity that will trigger an alarm. Select  $\mu$ Sv/hr or mRem/hr to ensure that the units correspond with the alarm levels.

**Background Filter Time:** Set the background radiation level averaging time by clicking on the drop-down box and selecting a different level. Changing the Background Filter impacts how often the dose rate changes on the LCD screen. The displayed data changes more slowly and less often if there is a long integration time.

**Rad-DX LCD Display Settings:** Select the viewable screens for a selected Rad-DX in the Rad-DX LCD Display Settings screen. From this screen you can also enable or disable the selected device's audio alarm and its touch screen functionality.



Figure 7: Rad-DX Alarm Screen

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**Relay Switch Configuration Section:** The Relay Switch Configuration section is only applicable when the Rad-DX is connected by USB to the 4-Channel USB relay module. The Sensor Failure option initiates a relay based on the failure of the PMT detector inside the device. For more information about the USB relay module, please contact your distributor.

Home	Graph	Histor	y	Device Se	ettings	Setup	About	Download Data	Upgrade	Calibrat
onfiguration Co	mmunicatio	ons Firmware	Update							
Display D	evice Name:	rad-DX 00C8		ĵ.	Au	dio Alarm		Acknowledge Al	arm	
Device Se	rial Number:	880281		7	0	🔘 Disable 🔘 Enable		Disable (	) Enable	
Device ser					Τοι	uch Screen				
Kad	lation Units:	mRem/Hr	~	1		O Disable 🖲	Enable			
Graph Sam	ple Window:	1 Minute	~	1	Time	Zone:				
LCD Display:					(GM	IT - 7:00) Mount	ain Time (US &	Canada)	~	
Clock	Dose Ra	te 🗹 Graph	C0	libration	1			Daylight S	avings	
Radiation										
⊖ uSv/Hr ●	mRem/Hr	Relay	Switch	Configure	ation Sec	ction				
Alarm Leve	:1	port1	port2	port3	port4	Select All				
Alarm Low:	0.035									
Alarm Medium:	0.05									
Alarm High:	0.1									
Soncor Failura	0.2					-				
Sensor runure	-					E-mail(s) fo	r alerts (e.g. usei	r1@gmail.com, user2@	)gmail.com):	-
Background Fitter	Time: 15	sec	1							Subi

Figure 8: DX-View Device Settings: Configuration Screen

#### 5.2.2 Device Settings: Configuration: Mini Rad-DX

Device Name: Change the device name in this field.

Device Serial Number: Add the serial number of the device in this field.

Radiation Units: Change the radiation units from mR/hr to Sv/hr using the drop-down menu.

**Device Configuration Lock:** By clicking rhe Device Configuration Lock, an administrator can lock the Mini Rad-DX so users cannot change any settings on the device itself.

Audio Alarm: Enable or disable the audio alarm.

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Vibrate Alarm: Enable or disable the vibration alarm.

Time Zone: Select the time zone and enable daylight savings.

**Display Alarm Level on Top of Screen**: Add the 1-9 display on the top OLED screen and add custom alarm settings. Click the "Display alarm level on top screen" box to display the 1-9 scale then press submit, or leave it unchecked to display the dose readings.

Home Configuration	Graph	History	odate	igs Setup	About	Download Data	Upgrade	_
Display	communicatio	in thinking of						
	Device Name:	4154		Audio Alarm	Enable			
Device	Serial Number:	890035		0 14111 0				
1	Radiation Units:	mRem/Hr	~	Vibrate     Oisable	Enable			
				Time Zone:				
				(GMT - 7:00) Mount	ain Time (US & C	Canada)	~	
Devic	e Configuratio	n Lock				🗹 Daylight Sa	vings	
Alarm L	mRem/Hr     evel	Display	alarm level on t	op screen	Alarm (mRem)			
Leve	1: 0.025	Level 6:	0.2					
Leve	2: 0.04	Level 7:	0.2					
Leve	3: 0.04	Level 8:	-					
Leve	4: 0.065	Level 9:						
Leve	5: 0.065			E-mail(s) for	alerts (e.g. user)	1@gmail.com, user2@g	mail.com):	
Background Fi	iter Time: 15 s	ec ~						Submit

Figure 9: Device Configuration: Mini Rad-DX

**Total Dose Alarm**: Click the "Total Dose Alarm" checkbox and click "Submit" to enable accumulative dosage tracking or leave it unchecked to keep it disabled. Use the text boxes to customize the alarm levels for each device.

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onfiguration Comn	nunications Firmware Update	e
Display Devic	e Name: 4154	Audio Alarm O Disable O Enable
Device Serial I Radiatio	Number: 890035 on Units: mRem/Hr ~	Vibrate → Oisable O Enable
		Time Zone:
Device Cont	figuration Lock	[Givi - 7.00] Wountain nine [05 & Canada)
Alarm Level Alarm Level Alarm Medium: Alarm High: Alarm Very High:	0.025 0.04 0.065 0.2	Total Dose Alarm (mRem) Caution: 10 Alarm: 1000
Background Filter Tim	ne: 15 sec 🗸	E-mail(s) for alerts (e.g. user1@gmail.com, user2@gmail.com):

Figure 10: Mini Rad-DX Total Dose Alarm

**Background Filter Time:** The background filter time is the time the device averages the background counts. A longer filter setting will cause the background to me more smooth or stable. This setting does not affect the response times.

**Email:** Add the email addresses to recipients who are to be notified when a radiation alarm occurs.

#### 5.2.3 Display Settings: Communications

The Communications tab under Device Settings configures the SensorNet Mesh channel for each device, which can be enabled or disabled for the selected device. The channel (frequency) that the SensorNet network operates on can also be changed in the Communications tab. If the channel is changed for one device, then all of the other devices will need to be changed to the same channel to be able to communicate with each other on the SensorNet network.

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DX View	rad-2	X.						_	
	Home	Graph	History	Device Settings	Setup	About	Download Data	Upgrade	
	Configuration	Communications	Firmware Upd	ate					
	SensorNet								
	Enabled								
	Channel:	25 -							
			-						
		Γ	Submit						
	Device ID: 00 Device Name Dose Rate:	9390011 2: rad-DX 0011 0.09800 uSv/l	ır	Alarm: Battery: 100% 品令���		Configura	tion Loaded		
	-		-						
						ling of the last			

Figure 11: DX-View Device Settings: Communications Screen

#### 5.2.4 Display Settings: Firmware Update

As new firmware versions become available, you will be notified and given instructions to upload a new or updated firmware version to your device. Save the included firmware version in a convenient location. Select the device to be updated. Locate the firmware file using the "Browse" feature, and press "Submit" to update. The update may take several minutes.

**Restore to Factory Calibration:** A device's calibration may be erased and restored to the factory calibration by pressing the Restore to Factory Calibration button. It is not recommended that you restore any device to the factory calibration without first consulting with your distributor or D-tect Systems.

**Reset Account Settings:** A selected device can be reset to factory account settings by using the "Reset Factory Settings" button in the upper right corner of the screen.

**Note:** Devices with account settings restored will need to be configured again with the network username and password.

Serial Number: The serial number is displayed on the bottom left of the screen.

Firmware Version: The device's firmware version is shown on the bottom left of the screen.

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Calibration Date: The calibration date is shown on the bottom left of the screen.



Figure 12: DX-View Device Settings: Firmware Update Screen

### 5.3 Setup Screen

The Display Settings are located in the top section of the Setup screen. Display settings updates will take effect without pressing the submit button.

**Radiation Units:** Change the units displayed on the Home screen by changing the Radiation Units.

**Background Image:** Use the background image setting to upload a map or floor plan to the Home screen background.

**Font Color:** Change the font color on the Home screen using the "Home Screen Device Color" button.

Use Serial Number for Device Name: Select this box to display the Serial Number of the device on the Home screen.

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**PC Audio Alarm:** Select the "Enable PC Audio Alarm" box to enable an audio alarm for radiation alerts.

The bottom section of the screen displays Account Settings such as Administrator Username, Administrator Password, and Customer ID. This information is populated from the pop-up window that appears when the software is first launched. These settings can only be changed when a device is connected via USB cable.

oplication	Device Settings About Download but Opgrade	canbrate
Display Settings		
Radiation Units: mRem/Hr	✓ Home Screen Device Color	
	Disable device text	
Select a Background Image (873x472 pixels o	or 1.85:1 aspect ratio) Use Serial Number for dev	vice name
	Browse Enable PC Audio Alarm	
Account Settings	<b>Email Server</b>	
	SMTP Server (e.g. smtp.gmail.com):	
Administrator Username: demo	SMTP Port (e.g. 587): 587	
Administrator Password Chango Bas	Username:	
Administrator Password. Change Pas.	Password:	
Customer ID: 0003	Use SSL to connect (recommended)	
	Interval between e-mails (minutes): 30 🗧 Send Te	st Email
	Submit	mit

Figure 13: DX-View Setup Screen

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#### 5.3.1 Email Setup

On the Setup tab, there is a section to configure email settings to send email or SMS (if supported by the mobile carrier) messages in the event of a radiation alarm.

In the event of a radiation alarm, an email or SMS message, if supported by your mobile carrier, may be sent out. Follow the steps below to configure the messaging feature.

- 1. Enter the SMTP Server and Port information.
- 2. Enter the username (Email Address) and password (for that email account).
- 3. Check the "SSL" box (optional, provides better security).
- 4. Select desired email interval.
- 5. Send Test email and verify that it arrived properly.
- 6. Click "Submit."
- 7. Add destination email addresses. This is done under the Device Settings: Configuration tab for each device.

Email Server	
SMTP Server (e.g. smtp.gmail.com):	smtp.gmail.com
SMTP Port (e.g. 587):	587
Username:	sample@gmail.com
Password:	•••••
Use SSL to connect (recommende	d)
Interval between e-mails (minutes):	30 🛓 Send Test Email
	Submit

Figure 14: Email Server Setup

Figure 14 shows a sample setup for an email configuration. Once an email is entered like this, the DX-View software will login to the email account and use it to send alerts to the addresses specified for each device in its separate device settings page. The configuration shown in the example above is a valid example for a Gmail account.

Replacing the username and password with those from the desired Gmail account and entering the other configurations as shown will allow DX-View to send an email from that Gmail account.

Some email servers, including Gmail, require the client to set up additional settings in their account before allowing other programs to send emails through their account.

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Selecting the SSL checkbox forces DX-View to encrypt the communication between itself and the email server to aid in the security of your account.

The DX-View can send multiple emails over the course of a single alarm. The interval feature limits the number of emails that the DX-View will send over the course of any alarm. The default setting is 30 minutes. You may want to reduce that time, depending on how often you want to be notified during the course of a single alarm. The DX-View will send a new email, regardless of the interval setting, if the dose rate increases enough to cause the alarm level to increase.

Email Domain	SMTP Server	SMTP Port
Gmail.com	smtp.gmail.com	587
Yahoo.com	smtp.mail.yahoo.com	465
Hotmail.com	smtp.live.com	465
Outlook.com	smtp.live.com	587
Comcast.net	smtp.comcast.net	587
For additional	email domains contact your network admi	nistrator.

Figure 15: SMTP settings for common email domains

The figure above shows settings for four popular email domains. Settings for other domains can be found online and private email servers can be configured by their network administrator.

Once the email configuration is set up, press the "Send Test Email" button to send a test email.

After you have successfully received a test email, press the "Submit" button.

Ensure that the email is successfully sent before moving on in the system configuration. Leaving an improperly configured email account active can cause communication problems with the software and each of the Rad-DX detectors.

Now that the email server is configured, each device needs to be configured to set which email addresses to send the alarm notification emails to.

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5.3.1.1	Adding	Email	Addresses	to	Each	Device

Configuration	Graph Communication	History Firmware Upda	Device Settin	gs Setup	About	Download Data	Upgrade	
Display								
	Device Name:	rad-DX 0009		Audio Alarm	bla			
	Radiation Units:	mRem/Hr	~		DIE			
				Disable     Disable	able			
Graph S	ample Window:	6 Minutes	~	Time 7-22				
	<u>.</u>			(GMT - 7:00) Mountain	Time (US & (	Canada)	~	
	oy. ✓ Dose Rate	Graph	Calibration			Daylight Sav	ings	
Dadiation							-20 <b>7</b> 10	
O uSv/Hr	mRem/Hr	Relay Switc	h Configuratio	n Section				
Alarm L	evel	port1 port	2 port3 por	t4 🗌 Select All				
Alarm Lo	w: 0.025			1				
Alarm Mediu	m: 0.05			É				
Alarm Hi	gh: 0.1							
Alarm Hij Alarm Very Hi	gh: 0.1 igh: 0.2							
Alarm Hij Alarm Very Hi Sensor Failu	gh: 0.1 igh: 0.2 ure			✓ E-mail(s) for ale	rts (e.g. useri	L@gmail.com, user2@gi	nail.com):	1

Figure 16: Target Email Address Configuration

Once the email server has been set up, each device can be configured to notify different combinations of email addresses. Figure 16 shows where to enter the email addresses. Make sure they are separated by commas. The DX-view also supports SMS messaging to phones using the proper domain for each carrier. The domains for some popular mobile carriers are included in Figure 17. The format for these addresses is 10-digit-number@domain (e.g. 8009991234@vtext.com).

Mobile Carrier	SMS Email Domain
Verizon	vtext.com
AT&T	txt.att.net
T-Mobile	tmomail.net
Sprint	messaging.sprintpcs.com

**Figure 17: Mobile Carrier Domains** 

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## 5.4 Upgrade Screen

The Upgrade screen allows you to select the appropriate firmware update file for each device type. After selecting the desired devices click "Upgrade" to start an OTA (over the air) or mass update for all selected devices communicating over the SensorNet mesh network. Note that updating a large number of devices (10+) through the mesh network can take several hours.

Devices to	upgrade:		Please select rad-D	X firmware file:		Proviso
024900 024900	109:rad-DX 0009 5AA:Mini C6AA		Please select mini-l	DX firmware file	:	DIOWSE
						Browse
			Please select DX Lin	ık firmware file:		
						Browse
			Please select AM80	x firmware file:		
						Browse
			Delayed Start:	20 <mark>14/04/18</mark>	15:11	
5						
						Upgrade

Figure 18: DX-View Upgrade Screen

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## 6 Operation

### 6.1 Home Screen

To see a summary of all of the detectors, click the **button** button found in the top right portion of the Home screen. Devices currently communicating with DX-View and devices previously connected to your network will show up in the list.



Figure 19: DX-View Device List

During normal operation, each device icon will appear blue. The color of each device icon indicates the status of that particular detector. If it is blue the DX-View software on the computer is communicating with the device. If it is orange the device is detecting gamma radiation above the minimum alarm threshold. If it is gray the device no longer has a communication path to your PC.

Normal (non-alarming)	Alarming device	Non-operational or disconnected device
device		

**Table 1: Device Icon Colors** 

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Each device type in the DX family has a different icon in DX-View. The icons are defined as follows:



 Table 2: Device Icon Types

### 6.2 Graph Screen

The Graph screen shows the real-time dose rate (including background radiation) in a 6 minute or 30 minute window. You can change the display range by selecting an option in the dropdown box located in the bottom right corner of the screen. You can change the units of measurement by clicking the listed units at the top of the screen.



Figure 20: DX-View Graph Screen

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## 6.3 History Screen

On the History screen, select a Begin time and an End time then press "Plot" to view a historical graph.

To view information about a specific point on the graph click the blue graph line. You will be shown its date, time, and dose rate below the graph in red.

~	rad DX.	
	Home Graph History Device Settings Setup About Download Data Upgrade	
	mRem/hr	-0.25
		-0.2
		-0.15
		0.1
		-0.05
	Monday, January 06, 2014 Alarm: 1 Dose: 0.43327 1/6/2014 12:20:42 Tresday, January 07,	-0 2014
	11:30:10 Begin Time End Time 11	:30:10
	Device ID: 026100bd Alarm: Device Name: rad-DX 00BD Battery: 100%	
	Dose Rate: 0.00980 mRem/hr	

Figure 21: DX-View History Screen

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### 6.4 About Screen

The About screen displays the current version of DX-View and contact information for technical support.



Figure 22: DX-View About Screen

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### 6.5 Download Data Screen

You can export a specific timeframe of data to a Microsoft Excel spreadsheet for further analysis in the Download Data screen.

- 1. Choose which detectors to include.
- 2. Select a Start time and an End time.
- 3. Select the Time Zone.
- 4. Press Download. This will download all of the data between your Start and End times. To download only alarmed events between your Start and End times select the "Show Alarm Events Only" box, then press "Download."



Figure 23: DX-View Download Data Screen

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## 7 Software Usage Statement

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<u>http://www.openssl.org/</u>)

# 8 Technical Support

You are encouraged to contact your distributor with any technical questions, or you may contact us directly.

Phone: 801-260-4000

Email: <a href="mailto:techsupport@dtectsystems.com">techsupport@dtectsystems.com</a>

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