



DMR Conventional Radio
Release Notes



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Documentation Information

This section describes the conventions and revision history of this document.

Documentation Conventions

Icon

Icon	Description
 Tip	Indicates information that can help you make better use of your product.
 Note	Indicates references that can further describe the related topics.
 Caution	Indicates situations that could cause data loss or equipment damage.
 Warning	Indicates situations that could cause minor personal injury.
 Danger	Indicates situations that could cause major personal injury or even death.

Notation

Notation	Description
Bold	The text in boldface denotes the name of a hardware button or a software interface element. For example, press the PTT key.
->	The symbol directs you to access a multi-level menu. For example, to select New from the File menu, we will describe it as follows: "File -> New".

Revision History

Version	Release Date	Description
V3.0	November 2017	Re-released R8.5 DMR conventional software. Added the Priority Digital Channel feature and descriptions on the issues resolved between V8.05.06.005 and V8.05.07.004.
V2.0	August 2017	Re-released the Customer Programming Software (CPS) and updated the version information.
V1.0	July 2017	Initial release

1. Product Information

Firmware Version

Product	Version
Portable Radio (PD6XX, PD7XX, PD8XX, PD98X, and X1 series) Mobile Radio (MD6XX and MD7XX series)	A8.05.07.004
	S8.05.07.004
	N8.05.07.004
	C8.05.07.004
Repeater	A8.05.07.004
	S8.05.07.004
	N8.05.07.004
	C8.05.07.004

Application Version

Application Software	Version
Customer Programming Software (CPS)	V8.05.06.011
Debug and Testing Software (Tuner)	V8.05.01.003
Repeater Diagnostics and Control (RDAC)	V8.05.01.003
DMR Record Manager	V1.00.02.001

2. What's New in This Release

2.1 Introduction

Unless otherwise specified, the new and enhanced features described in this document are available to all radios and repeaters specified in the Firmware Version.

2.2 Radio

2.2.1 New Features

None.

2.2.2 Enhanced Features

2.2.2.1 Conventional Features

Priority Digital Channel

The Scan feature is enhanced in this release. The **Priority Digital Channel** option is added to the Scan Type. With it selected, the radio chooses to stay on a channel with better signal during scanning according to preset **Prior Digital CH. RSSI Threshold**. If RSSI of the scanned channel is equal to or higher than this threshold, the radio stays on this channel. If lower, the radio will scan other channels in the Scan List. If all are lower, the radio stays on the channel with highest RSSI.

To set the related parameters in the CPS, go to:

- Conventional -> Scan -> Scan List X -> Scan Type -> Priority Digital Channel
- Conventional -> Scan -> Scan List X -> Prior Digital CH. RSSI Threshold

2.3 Repeater

This section describes the new and enhanced features in this release.

2.3.1 New Features

None.

2.3.2 Enhanced Features

None.

2.4 Application

2.4.1 New Features

None.

2.4.2 Enhanced Features

None.

3. Important Notes

3.1 Radio

3.1.1 Hardware

Newly Supported Frequencies and Models

- PD78X U5 G
- PD70X U5 G

3.2 Repeater

None.

3.3 Application

None.

3.4 Accessory

None.

4. Resolved Issues

This section introduces the issues resolved between V8.05.06.005 and V8.05.07.004.

No.	Product	Description
001	Portable/Mobile radio	The radios without display will restart when using the Customized Tone feature.
002	Portable/Mobile radio	The data numbers of RSSI (BT) and Tx Power are not the same as those specified in ADK document.
003	Portable/Mobile radio and repeater	If default SN of the standby mainboard is 000000000, "Error 104" appears on the radio/repeater after user modifies the SN through Dealer SNW (Dealer Serial Number Writer).
004	Repeater	When the repeater services as a dispatch station, the transmitted BT positioning data is not the same as that specified in ADK document.
005	Repeater	The GPS data format transmitted through the AIS feature is not the same as that specified in ADK document.
006	Repeater	There is noise when encrypted voice is transmitted through the option board.

Appendix

The table below lists the new models that support 1 pulse per second (PPS) in this release.

Model	Model Number
PD70XG	PD70X-000G00PL-M00000-V1-0-B PD70X-000G00PL-000000-V1-0-B PD70X-000G00PL-M00000-U1-0-B PD70X-000G00PL-000000-U1-0-B PD70X-000G00PL-M00000-U2-0-B PD70X-000G00PL-000000-U2-0-B PD70X-000G00PL-M00000-U3-0-B PD70X-000G00PL-000000-U3-0-B PD70X-000G00PL-M00000-V4-0-A PD70X-000G00PL-000000-V4-0-A
PD70XS	PD700-00SG00PL-M00000-U1-0-B PD700-00SG00PL-M00000-V1-0-B PD700-00SG00PL-000000-V1-0-B PD700-00SG00PL-000000-U1-0-B
PD78XG	PD78X-000G00PL-M00000-V1-0-B PD78X-000G00PL-000000-V1-0-B PD78X-000G00PL-M00000-U1-0-B PD78X-000G00PL-000000-U1-0-B PD78X-000G00PL-M00000-U2-0-B PD78X-000G00PL-000000-U2-0-B PD78X-000G00PL-M00000-U3-0-B PD78X-000G00PL-000000-U3-0-B PD78X-000G00PL-M00000-U6-0-B PD78X-000G00PL-M00000-V3-0-B PD78X-000G00PL-000000-Ut-0-D PD78X-000G00PL-M00000-V4-0-A PD78X-000G00PL-000000-V4-0-A

Model	Model Number
PD78X Compass	PD78X-000C00PL-000000-V1-0-B PD78X-000C00PL-M00000-V1-0-B PD78X-000C00PL-M00000-U1-0-B PD78X-000C00PL-000000-U1-0-B PD78X-000C00PL-M00000-U5-0-F PD78X-000C00PL-M00000-U3-0-B PD78X-000C00PL-000000-U3-0-B
PD75XG	PD75X-000G00PL-000000-U1-0-B PD75X-000G00PL-M00000-U1-0-B PD75X-000G00PL-000000-U2-0-B PD75X-000G00PL-M00000-U2-0-B PD75X-000G00PL-000000-V1-0-B PD75X-000G00PL-M00000-V1-0-B
PD88XL	PD88X-000G00PL-000000-U1-0-B PD88X-000G00PL-M00000-U1-0-B PD88X-000G00PL-000000-V1-0-B PD88X-000G00PL-M00000-V1-0-B PD88X-000C00PL-000000-U1-0-B PD88X-000C00PL-M00000-U1-0-B PD88X-000C00PL-000000-V1-0-B PD88X-000C00PL-M00000-V1-0-B
MD78XG	MD78X-000G00P0-000000-V1-H-F MD78X-000G00P0-000000-V1-L-F MD78X-000G00P0-000000-V3-L-A MD78X-000G00P0-000000-U1-H-L MD78X-000G00P0-000000-U1-L-L MD78X-000G00P0-000000-U2-H-L MD78X-000G00P0-000000-U2-L-L MD78X-000G00P0-000000-U3-H-L MD78X-000G00P0-000000-U3-L-L

Model	Model Number
	MD78X-000G00P0-000000-U6-H-K MD78X-000G00P0-000000-U6-L-K MD78X-000G00P0-000000-U7-H-L MD78X-000G00P0-000000-V1-A-F MD78X-000G00P0-000000-U6-L-L MD78X-000G00P0-000000-U6-H-L MD78X-000G00P0-000000-Ut-L-L MD78X-000G00P0-000000-Ut-H-L
MD78X Compass	MD78X-000C00P0-000000-U3-L-K MD78X-000C00P0-000000-V1-L-F MD78X-000C00P0-000000-V1-A-F MD78X-000C00P0-000000-V1-H-F MD78X-000C00P0-000000-U1-L-K MD78X-000C00P0-000000-U1-L-L MD78X-000C00P0-000000-U1-H-L MD78X-000C00P0-000000-U3-L-L MD78X-000C00P0-000000-U3-H-L
MD78XG_D	MD78X-000G00PD-000000-V1-H-B MD78X-000G00PD-000000-V1-L-B MD78X-000G00PD-000000-U3-H-A MD78X-000G00PD-000000-U3-L-A
MD65XG	MD65X-000G00P0-000000-V1-A-A MD65X-000G00P0-000000-U1-A-C MD65X-000G00P0-000000-U2-A-C
X1e	X1e0X-000G00P0-MB0000-U1-0-F X1e0X-000G00P0-MB0000-U2-0-F X1e0X-000G00P0-MB0000-U3-0-F X1e0X-000G00P0-MB0000-U6-0-F X1e0X-000G00P0-MB0000-V1-0-H

Model	Model Number
	X1e0X-000G00P0-MB0000-U1-0-G X1e0X-000G00P0-MB0000-U2-0-G X1e0X-000G00P0-MB0000-U3-0-G X1e0X-000G00P0-MB0000-U6-0-G X1e0X-000C00P0-MB0000-U1-0-G X1e0X-000C00P0-MB0000-U3-0-G X1e0X-000C00P0-MB0000-V1-0-H
X1p	X1p0X-000G00P0-MB0000-U1-0-F X1p0X-000G00P0-MB0000-U2-0-F X1p0X-000G00P0-MB0000-U3-0-F X1p0X-000G00P0-MB0000-U6-0-F X1p0X-000G00P0-MB0000-V1-0-H X1p0X-000G00P0-MB0000-U1-0-G X1p0X-000G00P0-MB0000-U2-0-G X1p0X-000G00P0-MB0000-U3-0-G X1p0X-000G00P0-MB0000-U6-0-G X1p0X-000G00PE-MB0000-V1-0-K X1p0X-000G00PE-MB0000-U1-0-K X1p0X-000G00PE-MB0000-U3-0-K X1p0X-000C00P0-MB0000-U1-0-G X1p0X-000C00P0-MB0000-U3-0-G X1p0X-000C00P0-MB0000-V1-0-H X1p0X-000C00P0-MB0000-V1-0-K X1p0X-000C00P0-MB0000-U1-0-K X1p0X-000C00P0-MB0000-U3-0-K X1p0X-000C00PE-MB0000-V1-0-K X1p0X-000C00PE-MB0000-U1-0-K X1p0X-000C00PE-MB0000-U3-0-K
PD60XG	PD60X-000G00P0-M00000-Um-0-C

Model	Model Number
	PD60X-000G00P0-N00000-Um-0-C PD60X-000G00P0-100000-Um-0-C PD60X-000G00P0-M00000-V1-0-A PD60X-000G00P0-N00000-V1-0-A PD60X-000G00P0-100000-V1-0-A PD60X-000G00P0-N00000-U2-0-C PD60X-000G00P0-100000-U2-0-C
PD66XG	PD66X-000G00P0-N00000-Um-0-A PD66X-000G00P0-100000-Um-0-A PD66X-000G00P0-N00000-U1-0-A PD66X-000G00P0-100000-U1-0-A PD66X-000G00P0-N00000-U2-0-A PD66X-000G00P0-100000-U2-0-A PD66X-000G00P0-N00000-V1-0-A PD66X-000G00P0-100000-V1-0-A PD66X-000G00P0-N00000-U1-0-C PD66X-000G00P0-100000-U1-0-C
PD68XG	PD68X-000G00P0-N00000-Um-0-A PD68X-000G00P0-100000-Um-0-A PD68X-000G00P0-N00000-U1-0-A PD68X-000G00P0-100000-U1-0-A PD68X-000G00P0-N00000-U2-0-A PD68X-000G00P0-100000-U2-0-A PD68X-000G00P0-N00000-V1-0-A PD68X-000G00P0-100000-V1-0-A
PD78XE	PD78X-000G00PE-M00000-U3-0-B PD78X-000C00PE-M00000-U3-0-B
PD70X UL913	PD70X-0U0G00PL-M00000-U1-0-B PD70X-0U0G00PL-000000-U1-0-B

Model	Model Number
	PD70X-0U0G00PL-M00000-V1-0-B PD70X-0U0G00PL-000000-V1-0-B PD70X-0U0G00PL-000000-U2-0-B PD70X-0U0G00PL-M00000-U2-0-B PD700-0U0G00PL-M00000-U3-0-B
PD78X UI913	PD78X-0U0G00PL-M00000-U1-0-B PD78X-0U0G00PL-000000-U1-0-B PD78X-0U0G00PL-M00000-V1-0-B PD78X-0U0G00PL-000000-V1-0-B PD78X-0U0G00PL-000000-U2-0-B PD78X-0U0G00PL-M00000-U2-0-B PD78X-0U0G00PL-M00000-U3-0-B
X1p UL913	X1p0X-0U0G00P0-MB0000-U1-0-G X1p0X-0U0G00P0-MB0000-V1-0-H X1p0X-0U0G00P0-MB0000-U2-0-G
PD68X Ex	PD680-0E0G00P0-100000-V1-0-A PD680-0E0G00P0-100000-Um-0-A
PD70X Ex	PD70X-0E0G00P0-M00000-V1-0-D PD70X-0E0G00P0-M00000-U1-0-N PD70X-0E0G00P0-M00000-U3-0-N
PD75X Ex	PD750-0E0G00P0-M00000-U1-0-N PD750-0E0G00P0-M00000-V1-0-N
PD78X Ex	PD78X-0E0G00P0-M00000-V1-0-D PD78X-0E0G00P0-M00000-U1-0-N PD78X-0E0G00P0-M00000-U3-0-N PD780-0E0C00P0-M00000-U3-0-N
PD98X	PD98X-000G00PD-MB0000-Ux-0-D PD98X-000G00PD-MB0000-U3-0-D

Model	Model Number
	PD98X-000G00PD-MB0000-U1-0-D
	PD98X-000C00PD-MB0000-Ux-0-D
	PD98X-000C00PD-MB0000-U1-0-D
	PD98X-000C00PD-MB0000-U3-0-D
	PD980-000C00PD-MB0000-Ux-0-F
	PD980-000C00PD-MB0000-U1-0-F
	PD980-000C00PD-MB0000-U3-0-F
	PD980-000G00PD-MB0000-V1-0-A
	PD980-000R00PD-MB0000-V1-0-A
	PD980-000C00PD-MB0000-V1-0-A



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