



# **TELEX**

## *Radio Dispatch*

## **Radio Dispatch Engineering Group**

### **IP-224 Version 3.000 Engineering Release Notes**

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### Revision History

Revision	Date	Author	Description
01	05/07/12	Radio Dispatch Engineering	Firmware Version 1.000 Release
02	08/31/12	Radio Dispatch Engineering	Firmware Version 1.100 Release
03	02/18/13	Radio Dispatch Engineering	Firmware Version 1.200 Release
04	08/20/14	Radio Dispatch Engineering	Firmware Version 1.300 Release
05	01/09/15	Radio Dispatch Engineering	Firmware Version 1.400 Release
06	01/14/15	Radio Dispatch Engineering	Firmware Version 2.000 Release
07	04/08/16	Radio Dispatch Engineering	Firmware Version 2.100 Release
08	06/02/17	Radio Dispatch Engineering	Firmware Version 2.200 Release
09	12/01/17	Radio Dispatch Engineering	Firmware Version 2.300 Release
10	09/21/18	Radio Dispatch Engineering	Firmware Version 2.400 Release
11	03/22/19	Radio Dispatch Engineering	Firmware Version 2.600 Release
12	12/20/19	Radio Dispatch Engineering	Firmware Version 2.700 Release
13	03/25/22	Radio Dispatch Engineering	Firmware Version 2.800 Release
14	06/10/22	Radio Dispatch Engineering	Firmware Version 3.000 Release

### Overview

This document contains the release notes for the IP-224's firmware version 3.000. The release notes include all of the changes and fixes since official release version 2.800. Cross application compatibilities are outlined in this document.

### Important

**Starting with IP-224 firmware version 2.000, some serial controlled radio types now require an Additional Features | Access Key to be enabled. See the table below.**

After upgrading from a previous firmware revision to version 2.800 or newer, the unit will reboot and begin the process of updating system components. During the update process, the unit will display "Firmware Updating". This update process takes approximately 1 minute, after which the unit will self-reboot and operate normally. **Ensure that the unit completes the update cycle and boots normally before removing power from the unit.**

**After the IP-224 firmware has been upgraded to version 2.800 or newer, the firmware cannot be reverted to any previous version (2.706 or earlier). Any attempt to downgrade the firmware version via TSM will be refused by the IP-224.**



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## **New Features**

### Version 3.000

- Added the ability to encrypt transmit and receive audio on both lines via Ethernet Setup->CMS Setup->SRTP Encryption and Authorization Token settings.
  - NOTE: CMS is necessary to support audio encryption.

## **Feature improvements and known issues fixed in this release**

### Version 3.000

- NA

### Serial Type Information

Serial Type	Device	Tested Device Firmware	IP-224 Additional Features Access Key
EFJ 5300/53SL	EF Johnson 5300/53SL Series EF Johnson 5300/53SL ES Series <i>Multi-System radio</i>	4.14.5 6.16.18	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Hytera MD782	Hytera MD782G <i>DMR radio</i>	8.00.06.007	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Hytera MT680	Hytera MT680 <i>TETRA radio</i>	V2.06.15.009	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Icom	ICOM IDAS IC-Fx061 Option Board UT-126H <i>NXDN radio</i>	Rev.5.4 - Checksum: \$BC4F Rev.3.2 – Checksum: \$F961	Advanced Interface Option (North American) or Advanced Interface Option (Export)
iDEN	Motorola i355 Motorola i365 <i>iDEN radio</i>	NA NA	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Not Tested this Release	Not Tested this Release	Not Tested this Release	Not Tested this Release
Kenwood 5x10	Kenwood TK-5x10 Ver. 2.0 Kenwood TK-5x10 Ver. 2.0 - DOS Kenwood TK-5x10 Ver. 3.0 Kenwood TK-5x10 Ver. 3.0 - DOS <i>P25 radio</i>	F4.41 – Checksum FBF1 F4.41 – Checksum E346 G6.10 – Checksum 0ADA G6.01 – Checksum 9780	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood NX-x00	Kenwood NX-x00 <i>NXDN radio</i>	5.11 – Checksum 1A3E	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood NX-xxx0/5x30	Kenwood NX-5x00 Kenwood NX-3x20 <i>DMR/NXDN/P25 radio</i>  Kenwood TK-5x30 <i>P25 radio</i>	2.31.00 – Checksum 74AE 3.20.00 – Checksum 775C  4.00.00	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood VM Series	EF Johnson/Kenwood VMx00 EF Johnson/Kenwood VMx000 <i>Multi-System radio</i>	8.26.13 8.28.06	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Kenwood x150	Kenwood TK-x150 <i>Conventional Analog radio</i>	1.07 – Checksum E282	No Access Key Required
Kenwood x180	Kenwood TK-x180 <i>Conventional Analog radio</i>	1.22 – Checksum 035C	No Access Key Required
Kenwood x80	Kenwood TK-x80 Ver. 2.0 <i>Conventional Analog radio</i>	.028 – Checksum 0ADE	No Access Key Required
Kenwood x90	Kenwood TK-x90 <i>Conventional Analog radio</i>	2.30 – Checksum 77F4	No Access Key Required



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Serial Type	Device	Tested Device Firmware	IP-224 Additional Features Access Key
MOTOTRBO Interface	Motorola XPR4550 Option Board Version (XPR4550) Motorola XPR5350 Motorola XPR5550 Option Board Version (XPR5550) <i>DMR radio</i>	01.12.17 01.07.44 02.06.05 02.06.05 02.06.03	Advanced Interface Option (North American) ONLY  Serial Type MOTOTRBO Interface Available on 1 Line Only per unit
MTRBi	MTRBi Motorola XPR4550 Option Board Version (XPR4550) Motorola XPR5350 Motorola XPR5550 Option Board Version (XPR5550) <i>DMR radio</i>	MTRBi version 1.200 01.12.17 01.07.44 02.06.05 02.06.05 02.06.03	No Access Key Required
PowerTrunk	PowerTrunk MDT-400 <i>TETRA radio</i>	27.00.01	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Sepura	Sepura SRM2000 Sepura SRG3500 <i>TETRA radio</i>	V8.3-002 V9.0-006	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Serial Over IP	NA	NA	No Access Key Required
Tait TM91xx/TM94xx	Tait TM9100 Tait TM9400 <i>P25 radio</i>	8.03.03 2.18.04	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Tait TM93xx	Tait TM9300 <i>DMR radio</i> (Only Tier II is supported)	2.27.02	Advanced Interface Option (North American) or Advanced Interface Option (Export)
Telex Generic Version 1 RELM KNG Series	BK Technologies KNG Series <i>P25 radio</i>	5.5.13	No Access Key Required
Telex Generic Version 2 Sonim	Sonim for Motorola WAVE 7000 <i>Cellular PTT</i>	8A.0.0-03-7.1.1-26.01.65	Advanced Interface Option (North American) or Advanced Interface Option (Export)

### **Compatibility**

#### Console Management System (CMS)

- Version 1.000+ - Necessary for audio encryption.

#### C-Soft Application

- Version 8.000+ - Necessary for audio encryption.
- Version 7.400+ - Necessary for Sonim Interface for Motorola WAVE 7000.
- Version 7.200+ - Necessary for Radio Check.
- Version 6.501+ - Necessary for MDC Call Alert Acknowledgement feature.
- Version 6.500+ - Necessary for all other features.

#### Telex System Manager

- Version 3.100+ - Necessary for programming parameters.
- Version 2.500+ - Necessary for firmware upgrades.

### **Installation and Upgrade**

Please use Telex System Manager 2.500 or newer to upgrade the firmware. Please refer to the IP-224 manual for information on how to upgrade the new firmware.