Datron World Communications, Inc.

CMS2100
Channel Management System

- **Powerful Programming Software**

- **Windows[R]-Based User Interface**

- **Network Administration**

- **Complete Channel Configuration**

- **Frequency Hopping Plans**

- **Inclusion and Exclusion Tables**

- **Encryption Keys**

- **Easy to Use**

- **Download to Keyfill or Directly to Radio**

- **Companion Rugged Notebook Computer (Optional)**

The CMS2100 is a complete channel and key management system designed to work with the Spectre V[R] series of VHF/FM tactical radio equipment. This powerful Windows[R]-based software package gives the Spectre V[R] system administrator the ability to completely configure all preset channels with frequency and mode information, set the RF power level, and designate it as a "scan" channel in a network group. Frequency hopping plans, including inclusion and exclusion tables, can easily be created, as can encryption keys – all by using a series of intuitive graphical interface menus. Information can easily be saved for downloading into either a Spectre V[R] radio or a KF2100 keyfill device.

The CMS2100 software is specifically designed to run in a Windows environment and can be programmed for two types of fill tables. These tables can be configured for PRC1080 interoperability as well as Spectre-to-Spectre-only networks.

Customization of up to 100 preset channels is possible using the CMS2100 program. Menus are available to select mode, RF power level, Tx and Rx frequencies, scan status, and hopping and encryption features for that particular channel. Each of the 100 channels can be preset with unique information in this fashion.

Up to 10 channel groups (networks) can also be customized. Each group can have a distinct "name" and contain from 1 to 100 of the pre-programmed channels. These channels may be listed in any order of preference for scanning purposes.

Creation of ECCM hop plans requires entering a "day" key and using tables to determine the frequencies contained within each plan. The "exclude" function is used to bar certain frequencies or blocks of frequencies, in order to maximize communications efficiency and eliminate interference with other services.

The encryption keys can be customized using COMSEC menus contained within the program. Fields containing keys for the current encryption plan can be either manually edited or randomly filled.

CMS2100 SPECIFICATIONS

GENERAL	
CMS2100	Windows^R-based software on CDROM; PC Card Hardware Protection Key. Comes with Operator's Manual (CMS2100-MS)

ACCESSORY EQUIPMENT	
DT9400 Notebook computer	Rugged notebook computer built for use in indoor depot environments as well as outdoor field operations. Color LCD display, CD-ROM and Floppy drive, expandable memory; tested to MIL-STD-810 for shock, vibration, and rain. A COM port on the computer provides communication between the computer and the companion KF2100 device.
KF2100 Keyfill Device	Battery-powered keyfill that is "filled" from the CMS2100 computer using the C992208 interface cable. Used to download information into the Spectre V^R radios.
2100CD Cloning Device	Used to fill one KF2100 from another.
C992304	Interface cable used to download fill data directly from the CMS computer to the radio.
C992208	Interface cable used to download fill data from the CMS computer to the KF2100 Keyfill device.

NOTES:

1. Datron recommends that its dedicated computer be used to insure the integrity of the overall programming and "fill" process. However, if another terminal is used, the minimum requirements are:

- Pentium-class CPU w/32MB RAM
- Microsoft Windows 98
- Available COM Port
- Pointing device

2. Once a fill has been generated, it can be downloaded to either a KF2100 or an appropriately-configured Spectre V^R radio.

3. Once a KF2100 has been programmed by a CMS computer, it can be used to fill other KF2100s or Spectre radios by the push of a button.

Note: all specifications subject to change without notice

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