The DIMETRA™ KVL 4000 is Motorola Solutions’ Key Variable Loader (KVL) for End-to-End Encryption-enabled Motorola Solutions TETRA products. Based on the MC55E0 PDA, this PDA style key loader is provided with features and a user interface for increased efficiency and programming flexibility. A large LCD colour display paired with an easy to use alphanumeric keypad enables simple viewing and data entry.

SLEEK, RUGGED, AND LIGHTWEIGHT
Built to withstand everyday programming use in local authority, commercially sensitive, government and public safety environments. Meets MIL-STD specifications for sealing and drop.

PDA FORM FACTOR AND USER INTERFACE
The KVL utilises PDA MC55E0, which brings rugged functionality to encryption keyfill and management.

- Large 3.5 inch 640 x 480 colour display with day/night modes and multi-level backlighting
- Touch screen interface whilst navigating and accessing information is fast and simple
- Ingress protection to IP54

KEY MANAGEMENT
- Creates, stores and transfers key encryption keys and algorithms into secure devices
- Supports manual entry of E2EE keys
- Manual configuration of Cryptogroups and Associations
- Supports key sharing among KVL’s and with Motorola Solutions’ Key Management Facility
- Store and Forward messages
- Maintains a record of the most recent 250 keyload operations

STANDARD FEATURES
The standard KVL 4000 ships complete with the following:
- MC55 PDA
- Security adapter
- Battery charger
- 3600 mAh Li-ion battery
- User Manual

KEY VARIABLE LOADER WITH OPTIONS FOR EITHER AES128 OR AES256 END TO END ENCRYPTION

Designed to meet the requirements of crypto custodians, this powerful device offers the industry-standard Microsoft Windows Embedded 6.5 Operating System. Built with legendary Motorola Solutions quality and security, this compact, rugged device is built to withstand everyday use in harsh mobile environments. Motorola Solutions provides its customers with secure programming, ensuring your information is never compromised.

DIMETRA KVL 4000
**COMPATIBILITY**
- Backwards and forward compatibility with existing KVL3000/3000+ keyloaders being used for End-to-End Encryption
- Legacy keyloading cables

**HARDWARE SECURITY ADAPTOR**
- Safe, Secure Storage of Keys, Tamper protection and response
- Combination of easy to use PDA MMI and high security module
- FIPS140-2 level 3 design

**POWERED BY MICROSOFT’S WINDOWS® EMBEDDED 6.5 OPERATING SYSTEM**
- Organise and manage encryption keys and radio encryption
- MC55E0 Networking capabilities

**AUTOMATIC KEY GENERATION**
Auto-generation of a single key and of key sets

**AUTHORISATION AND SECURITY**
- Separate Operator and Administrator authentication enables appropriate authorisation of key management, firmware upgrades and changes
- User timeout – Automatically logs the user out after a specified period of inactivity
- Optional Enhanced Security – adds password protection of the Operating System and prevents use of unsigned applications and wireless communication

**DEAD BATTERY OPERATION**
- Ability to operate the KVL including key management and key downloading while charging
- Optional infinite key retention

**PHYSICAL CHARACTERISTICS (PDA AND SECURITY ADAPTOR TOGETHER)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>KVL with rechargeable Lithium-ion battery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries</td>
<td>3600 mAh Lithium-ion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>88.9 mm x 480 line, 240 character 640 x 280 pixel QVGA resistive touch-panel screen with LED backlight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KeyPad</td>
<td>QWERTY Keyboard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS232/DB-9 Connector</td>
<td>yes</td>
<td></td>
<td></td>
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<tr>
<td>USB Type A Port</td>
<td>yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MX-style keyload port</td>
<td>yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONAL FEATURES**
- Operating System Security Hardening
- Advanced Security Settings
  - Prevents installation or launch of applications whose certificates are unknown
  - Enables WiFi Network
  - Enables Bluetooth Communication
  - Requires a password to be set on the Operating System

**REGULATORY COMPLIANCE AND APPROVALS**
- EN61000-3-2 Class A Emission, EN61000-3 PF Exposure, EN60950-1
- UL61010-1, CE

**ENVIRONMENTAL**
- Diagostic
  - RoHS, WEEE & REACH, CMM & CCC Compliant
- Operating Temperature
  - -30 to +70 degrees C
- Storage Temperature
  - -40 to +70 degrees C
- Ingress Protection
  - IEC IP54
- ESD Protection
  - ±15kV air; ±6kV contact
- Humidity
  - 95% max, non-condensing
- Drop
  - 1.2m (3.99 feet)

For more information on the KVL 4000 please visit us on the web at: www.motorolasolutions.com/TETRA