

# KVL 4000

## Key Variable Loader



### Sleek, rugged, and lightweight

Built to withstand everyday programming use in federal and public safety environments; meets or exceeds MIL-STD specs for sealing and drop.

- IP54 sealing
- 4 foot drop

### New form factor and user interface

The KVL utilizes one of Motorola's newest PDA's, the MC55, which brings additional rugged functionality to encryption rekeying.

- Large 3.5 inch color display with day/night modes and multi-level backlighting.
- Touch screen interface makes navigating and accessing information fast and simple.

### Powered by Microsoft's Windows® Mobile 6 operating system

Manage your data and inventory with Microsoft's Windows flexible operating platform.

- Organize and manage keys and radios with Office and third party applications.

- Remote desktop with ActiveSync helps manage and synchronize files and folders to and from the KVL.

### Automatic key generation

- Automatic generation of random keys for any algorithm
- Can auto-generate a single key or a bulk set of keys

### Highest level of security

- FIPS 140-2 level 3 provides the highest level of security for your data
- User timeout – Automatically logs out the user after a specified period of inactivity
- User and Administrator Authentication allow users and administrators to perform and restrict firmware upgrades, changes and key management.

### Dead Battery Operation

Ability to operate the KVL including key management and key downloading while charging.

### Key Management Facility (KMF) support

With store and forward capability the encryption keys are downloaded from the KMF, stored in the KVL, and delivered to the end units.

### Compatibility\*

Backwards and forward compatible with existing KVL 3000/3000+ keyloaders and keyloading cables.

### Optional accessories

3600 mAh Li-Ion battery  
USB modem  
USB programming cable

### Standard features

The KVL 4000 ships standard with the following:

- MC55 PDA
- Security adapter
- Battery charger
- 2400 mAh Li-Ion battery
- User Manual

## Secure and rugged in a sleek design

The KVL 4000 is Motorola's Next Generation Key Variable Loader (KVL) for secure enabled Motorola products. Equipped with the Motorola MC55 PDA, this new PDA style key loader is outfitted with state-of-the-art features and user interface for increased efficiency and programming flexibility. A large LCD color display paired with an easy to use alphanumeric keypad enables simple viewing and data entry. Designed to meet the requirements of two-way radio programmers, this powerful device offers the latest

industry standard Microsoft Mobile 6 Operating System with Excel, Onenote, Powerpoint and Word.

Built with legendary Motorola quality and security, this compact, rugged device is built to withstand everyday use in Federal and public safety environments. Only Motorola can provide its customers with the highest level of secure programming, FIPS 140-2 Level 3, ensuring your information is never compromised.

# KVL 4000 Specifications

Physical Characteristics			
<b>Dimensions</b>			
Length	216 mm		
Width	84 mm		
Depth	39 mm		
<b>Weight</b>			
KVL with rechargeable 2400 mAH Lithium-Ion	473 g		
<b>Battery/Charger</b>			
2400 mAH Lithium-Ion 100/240VAC 50/60 Hz Charger	Up to 8 hours of typical keyloader operation		
3600 mAH Lithium-Ion 100/240VAC 50/60 Hz Charger	Up to 12 hours of typical keyloader operation		
<b>User Interface</b>			
Display	320 line, 240 character 3.5" QVGA resistive touch panel screen with LED backlight		
Keypad	QWERTY Keyboard		
RS232/DB-9 Connector	yes		
USB Type A Port	yes		
MX-style keyload port	yes		
<b>Encryption Specifications</b>			
Supported Systems	12 Kbps SECURENET		
	9.6 Kbps Secure ASTRO (VSELP Vocoder)		
	9.6 Kbps Secure ASTRO 25 (IMBE Vocoder)		
Supported Algorithms	DES, DES-OFB, DES-XL		
	DVI-XL		
	DVP-XL		
	AES		
	ADP		
Standards	FIPS 46-3		
	FIPS 81		
	FIPS 140-2 Levels 2 and 3		
	FIPS 197		
<b>Algorithm</b>	<b>ASTRO 25</b>	<b>Advanced Securenet (ASN)</b>	<b>KMF**</b>
DES-XL	X	X	X
DES-OFB	X	X	X
DVP-XL	X	X	X
DVI-XL	X	X	X
ADP (HW)	X		
AES	X	X	X
<b>Regulatory Compliance and Approvals</b>			
Electromagnetic Compatibility	FCC Part 15 Class A Emission		
	EN55022 Class A Emission		
	EN50392 RF Exposure		
Safety	EN60950-1		
	UL/cUL 60950-1		
<b>Environmental</b>			
Disposal	RoHS Compliant		
Operating Temperature	-10 to +50 degree C		
Storage Temperature	-40 to +70 degree C		
Ingress Protection	IEC IP54		
ESD Protection	±15kV air; ±6kV contact		
Humidity	95% max, non-condensing		

\*Only digital capable subscribers supported. Contact your local sales representative for a complete list of supported products.

\*\*KVL 4000 does not support KMC and CIU

Specifications are subject to change without notice. All specifications shown are typical.



Motorola, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. [www.motorola.com/us/government](http://www.motorola.com/us/government) +1 800 367 2346

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R3-17-2004A