P25 KVL 4000

KEY VARIABLE LOADER ENSURES SECURE INTEROPERABLE COMMUNICATIONS WITH EASE

The KVL 4000 Key Variable Loader (KVL) is outfitted with features and an easy to use user interface that allows for increased efficiency and programming flexibility. A large liquid crystal display (LCD) color display paired with an easy to use alphanumeric keypad enables simple viewing and data entry for less errors and greater efficiency.

Designed to meet the requirements of two-way radio programmers, this compact, rugged device is built to withstand everyday use in harsh Federal and public safety environments. By providing users with the highest level of secure programming, FIPS ensures your information is never compromised.

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 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
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. an auto-generate a single key or a bulk set of keys

HIGHEST LEVEL OF SECURITY
- FIPS 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
- USB modem
- USB programming cable

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

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KVL 4000 TWO-WAY PORTABLE RADIO TYPICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

DIMENSIONS

Length	216 mm
Width 84 mm	84 mm
Depth 39 mm	39 mm

BATTERY/CHARGER

3600 mAH Lithium-Ion 100/240VAC 50/60 Hz Charger	Up to 12 hours of typical keyloader operation

USER INTERFACE

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

ENCRYPTION SPECIFICATIONS

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 Level 2
	FIPS 197

ALGORITHM	ASTRO 25	ADVANCED SECURENET (ASN)	KMF**
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

REGULATORY COMPLIANCE AND APPROVALS

ELECTROMAGNETIC COMPATIBILITY	FCC Part 15 Class A Emission
	EN55022 Class A Emission
	EN50392 RF Exposure
	EN55024
SAFETY	EN60950-1
	UL/cUL 60950-1

ENVIRONMENTAL

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

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