

P25 KVL 5000

NEXT GENERATION ENCRYPTION KEY LOADER ENSURES SECURE INTEROPERABLE COMMUNICATIONS WITH EASE

The KVL 5000 allows programmers to generate, transport, and load encryption keys, securely and efficiently into secure communication products thereby enabling secure encrypted communications. Packaged in an easy to use one-handed design with an intuitive UI, the KVL 5000 integrates with Motorola's Key Management Facility (KMF) by provisioning radios to use Over The Air Rekeying (OTAR).

Designed to meet the requirements of two-way radio programmers, the purpose-built KVL 5000 delivers a quick start and snappy response for easy and efficient key loading - without interrupting the rest of their workflow. The only keyloader that can protect keys with hardware protected keystore, the KVL 5000 provides users with the highest level of secure programming and information protection.

KVL 5000 FEATURES

- FIPS 140-2 Level 2 keyloader
- HSM to protect keys
- Automatic key load
- Dead battery operation
- AES included
- Store and forward included
- Hardened out of the box

KVL 5000 ENABLES

- Encrypted talkgroups
- Encrypted communications
- OTAR
- Store and forward
- Key creation
- Aftermarket algorithm upgrades
- Radio authentication provisioning

COMPATIBILITY

Backwards and forward compatible with existing KVL 3000/3000+/4000 keyloaders and keyloading cables.

OPTIONAL ACCESSORIES

- USB modem
- USB programming cable



KVL 5000 TWO-WAY PORTABLE RADIO TYPICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

DIMENSIONS	
Length	120 mm (4.7 in)
Width	70 mm (2.75 in)
Depth	32 mm (1.25 in)
WEIGHT	
KVL with High Capacity (2925 mAh) Battery	300 g (10.6 oz)
BATTERY/CHARGER	
2925 mAh Li-ion USB-Micro Cable	Up to 10 hours of typical keyloading operation
2925 mAh Li-ion Si500 Drop-In Charger	Up to 10 hours of typical keyloading operation

USER INTERFACE

Display	3.2" Touch Display Transflective, Full Color Portrait/Landscape Display Support Tempered Glass Display
Connectors/Ports	RS232/DB9, USB-micro, MX-style keyload
Remote Connection to KMF/AuC	IP Network: USB-micro to Ethernet Adapter Dial-Up: USB Modem (USB to RJ-11)

ENCRYPTION SPECIFICATIONS

Supported Systems	ASTRO 25 7.13 or later
Supported Algorithms	AES, DES, DES-OFB, DES-XL, DVI-XL, DVP-XL, ADP
Supported Modes	ASTRO 25 Keyloading, USB Keyloading, Radio Authentication

SUPPORTED PRODUCTS/VERSIONS

KMF (Version 7.13)	APX 7000
KMF (Version 7.14)	APX 7500
KMF (Version 7.15)	APX 8000
KMF (Version 7.16)	APX 8500
KMF (Version 7.17)	XTL 2500 (MACE ONLY)
KMF (Version 7.18)	XTS 2500 (MACE ONLY)
APX 900	CDEM
APX 1000	CRYPTR 2
APX 2000	CRYPTR Micro
APX 2500	TRAFFIC CRYPTR
APX 3000	KVL 4000
APX 4000	MCC 7500
APX 4500	PDEG
APX 6000	MDEG
APX 6500	

WHAT’S IN THE BOX

- KVL 5000 Unit (P25 software, AES algorithm, hardened by default.
- Battery
- Charging cable (USB-micro)
- Quick Start Guide

WHY KVL 5000?

- Only keyloader with HSM to protect keys
- Purpose built device
- One piece design
- One handed operation
- Rugged (IP54, MIL-STD)
- Multiple keyload
- Key generation
- KMF support
- Key sharing (KVL 4000 to KVL 5000, KVL 3000+ to KVL 5000, KVL 5000 to KVL 5000)
- Quick Startup

UNSUPPORTED PRODUCTS

ASTRO Saber	XTS 4000 (ARMOR-based)
ASTRO Spectra	XTS 5000
Any ARMOR-based product	DIU
XTL 5000 (ARMOR-based)	MGEg
XTS 3000 (ARMOR-based)	RNC

REGULATORY COMPLIANCE AND APPROVALS

FIPS 140-2 Level 2	Compliant
Electromagnetic Compatibility	FCC Part 15 Class A Emission, EN55022 Class A Emission, EN50392 RF Exposure
Safety	EN60950, EN62368, UL/cUL, RoHS IP54
MIL-STD	Shock - MIL STD 810G 516.6 I Drop - MIL STD 810G 516.6 IV Vibration - MIL STD 810G 514.6 I/24

ENVIRONMENTAL

Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +70°C
Ingress Protection	IP 54
ESD Protection	EN 55024
Humidity	MIL STD 810G (507.5 II/Agg)

For more information, visit motorolasolutions.com/astro-security.



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