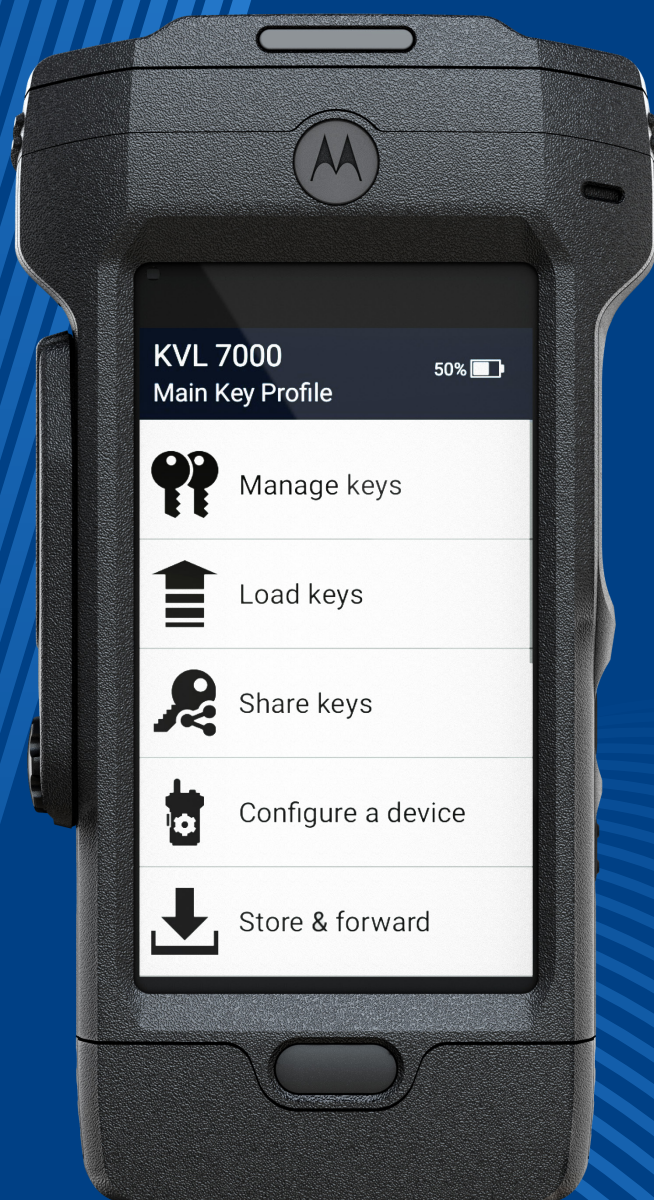


P25 KVL 7000

Next generation encryption and
authentication key loader

Ensuring secure interoperable
communications with ease





Protect your mission-critical communications with the next generation industry leading Key Variable Loaders, the KVL 7000. Generate, load and manage encryption and authentication keys securely into communication products directly from the palm of your hand. The KVL 7000 integrates with the Key Management Facility (KMF) by provisioning radios and consoles for centralized key management.

Features

- FIPS 140-3 Level 2 Security
- Hardware Security Module (HSM) to protect keys
- Automatic and multiple key load
- AES included
- Hardened out of the box
- Utilizes APX NEXT Standard Capacity Battery
- System Admin-Enabled WiFi Capability

Enables

- Encrypted communications
- OTAR (KMF managed)
- Store and forward
- Aftermarket algorithm upgrades
- Radio Authentication
- Control head key loading
- Tactical OTAR (KVL managed)

Benefits

- Hardware protected keystore
- Highly responsive and efficient key loading
- Dedicated device with an intuitive user interface (UI)
- Ruggedized to go where radios go
- Portable, one-handed operation
- Mission-critical touchscreen, useable with gloves, readable in all lighting conditions
- Larger screen, making it easier to use
- Familiar look feel and feature set





Specifications

PHYSICAL CHARACTERISTICS

DIMENSIONS AND WEIGHT

Height	5.4 in (138 mm)
Width	2.5 in (63 mm)
Depth	1.7 in (43 mm)
Weight with Standard Battery	18.5 in (525 g)

ENERGY

Battery	5.4 in (138 mm)
Width	2.5 in (63 mm)

USER INTERFACE AND CONNECTIVITY

Display	3.6" Mission-critical Touchscreen: 800x480 TFT 24-bit Full Color Transflective Display, 1mm Toughened Glass lens Capacitive Touch Technology: Useable with Gloves Up to 4mm Thick, Resistant to False Actuation from Fresh or Saltwater, Snow, Ice, Dirt, or Grease
Hardware Buttons	Power (right side) Push-To-Load Button (right side): 1.32 x 0.54 in (33.5 x 13.8 mm) 2 Programmable Buttons (right side) Wake (front, below display)
Connector/Port	Accessory Connector (GCAI)
Remote Connection to KMF/AuC	Wireless: WiFi Standards Supported: 802.11a/b/g/n/ac Frequency Range: 2400-2472, 5180-5825 MHz Security: Supports WPA-2 Capacity: Up to 20 SSIDs

ENCRYPTION SPECIFICATIONS

Supported Systems	ASTRO 25 7.13 or later
Supported Algorithms	AES, DES-OFB, DES-XL, DVI-XL, DVP-XL, ADP
Supported Modes	ASTRO 25 Key Loading, USB Key Loading, Radio Authentication
Supported Products	All Standard APX, APX NEXT Family, APX N-Series Portables and Mobiles with HW/SW Encryption KVL 5000, KMF, CDEM, WAVE CRYPT, CRYPT Micro, MCC 7500 VPM, MCC 7500E CRYPT, PDEG, TMG, AIS, CommandCentral AXS



What's in the box

- KVL 7000 Unit (P25 software, AES algorithm, hardened by default)
- Standard capacity battery
- Quick start guide

Accessories

- Single Unit Charger (SUC)
- USB modem
- USB programming cable
- Classic holster

ENVIRONMENTAL

Operating Temperature ¹	-20 to +60°C (-4 to +140°F)
Storage Temperature ¹	-40 to +85°C (-40 to +185°F)
Humidity	Per MIL-STD 810
ESD	IEC 61000-4-2
Dust Resistance	IP6X Dust
Water Resistance (Submersion)	IPX8 (2 meters, 4 hours) MIL-STD Delta-T, 512.X Procedure I
Vibration	MIL-STD 810G/H 514.6 Procedure I/24
Shock	MIL-STD 810G/H 516.6 Procedures I, V, VI
Drop	MIL-STD 810G/H 516.6 Procedure IV

REGULATORY AND APPROVALS

FIPS 140-3 Level 2	Validated
Safety	EN60950, EN62368, UL/cUL, RoHS IP68
FCC ID	AZ489FT7119
IC ID	109U-89FT7119
WiFi	12M9G1D, 16M7D1D, 17M9D1D, 36M2D1D, 17M5D1D, 18M4D1D, 36M8D1D, 76M1D1D

¹ Batteries should be charged at up to +45 °C (+32 to +113 °F) and stored at +20 to +25 °C (+68 to +77 °F) .

Reference motorolasolutions.com/batterycafe

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

To learn more, visit: www.motorolasolutions.com/astro-security



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