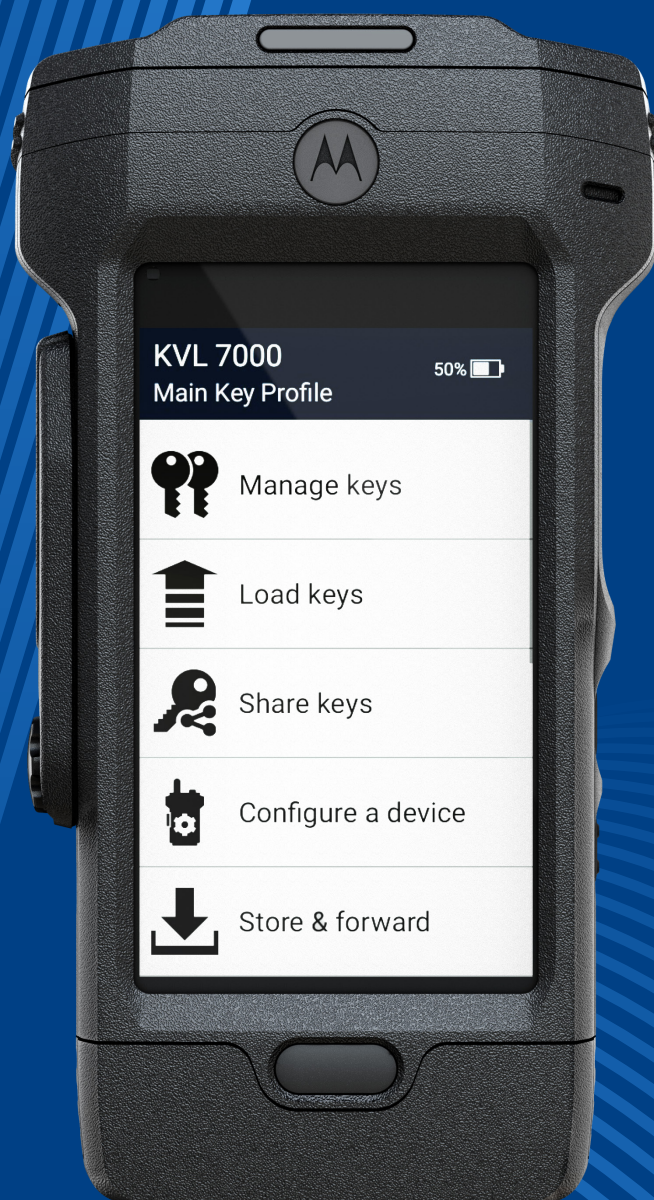


# P25 KVL 7000

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<br><br>Capacitive Touch Technology:<br>Useable with Gloves Up to 4mm Thick,<br>Resistant to False Actuation from<br>Fresh or Saltwater, Snow, Ice, Dirt, or Grease |
| Hardware Buttons             | Power (right side)<br>Push-To-Load Button (right side):<br>1.32 x 0.54 in (33.5 x 13.8 mm)<br>2 Programmable Buttons (right side)<br>Wake (front, below display)                                                                                                                    |
| Connector/Port               | Accessory Connector (GCAI)                                                                                                                                                                                                                                                          |
| Remote Connection to KMF/AuC | Wireless: WiFi<br>Standards Supported: 802.11a/b/g/n/ac<br>Frequency Range: 2400-2472, 5180-5825 MHz<br>Security: Supports WPA-2<br>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<br><br>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 <sup>1</sup> | -20 to +60°C (-4 to +140°F)                                    |
| Storage Temperature <sup>1</sup>   | -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)<br>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 |

<sup>1</sup> 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](https://motorolasolutions.com/batterycafe)

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

To learn more, visit: [www.motorolasolutions.com/astro-security](https://www.motorolasolutions.com/astro-security)



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. [motorolasolutions.com](https://motorolasolutions.com)

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