MS Two-Way Radio
Express Products List (EPL) 3744

Effective Date: January 22, 2016

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Viking® VP900 Multi-Band

MULTI-PROTOCOL/MULTI-MODE CAPABILITY

- P25 Phase 1 & Phase 2
- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- MDC-1200 and GE-Star signaling
- Mixed Protocol Zones (each channel in a zone can be from a different system)

EASY TO OPERATE

- The VP900 is available in three different model variants: no keypad, limited keypad or full keypad versions
- The VP900 offers the top display on all three models, maximizes viewing while in holster
- Backlit displays with controllable settings to increase visibility in all lighting conditions
- Backlit keypad
- Equipped with multiple visual indicators including battery level and signal strength to check status at a glance
- Ergonomic knobs for easier operation with gloves

RUGGED & RELIABLE

- Meets MIL Standard 810 G specs
- Immersion rated (IP67) *(waterproof in 1 meter of water up to 30 minutes)*
- Dual Shield design (internal metal housing and an external polycarbonate casing for exceptional durability)

SUPERIOR AUDIO QUALITY

- High performance speaker provides 1W nominal audio for loud and clear sound across various noise environments
- Frequency based noise cancellation and audio enhancement; does not require directional adjustment or software changes for different noise environments

P25 COMPLIANT

- Supports P25 CAI (Common Air Interface, Phase 1 & 2)
- Trunked and conventional system protocols Over-the-Air rekeying (OTAR)

ADVANCED FEATURES

- P25 Radio Authentication
- Programmable soft keys, menu and DTMF keys
- Up to 2048 channels
- Text messaging
- Customizable voice announcement
- Conventional vote scan is standard
- Over-the-Air programming (OTAP) option enables you to program radios in the field
- Armada® programming software provides simple fleet management of radios with features including profile templates and sorting/filtering by function or agency
- Elite battery management enables wireless tracking of battery fleet
- Enhanced radio security using software and hardware system keys
- Industry-standard encryption capabilities such as AES or DES-OFB
- ARC4™ software encryption; compatible with ADP™
- Speaker microphone disconnect alarm enhances safety
- Integrated GPS

Radio - Base Model		List Price	MS Two-Way Radio EPL 3744	Discount
2425AAAA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 1 (no keypad)	$ 2,500.00	$ 2,000.00	20%
2425AABA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W, and 806-870 MHz, 3W, Model 2 (limited keypad)	$ 2,700.00	$ 2,160.00	20%
2425AACA53XXX	700/800 MHz, 762-806 MHz + VHF 2.5W and VHF and 806-870 MHz, 3W, Model 3 (full keypad)	$ 2,900.00	$ 2,320.00	20%

	Antenna	List Price	MS Two-Way Radio EPL 3744	Discount
	Multiband 700/800 + VHF Standard	N/A	N/A	N/A
	Multiband 700/800 + VHF Flexible	N/A	N/A	N/A

	Battery	List Price	MS Two-Way Radio EPL 3744	Discount
	Viking Li-ion Battery	N/A	N/A	N/A

	Housing	List Price	MS Two-Way Radio EPL 3744	Discount
	Black Housing	N/A	N/A	N/A
	High Visibility Housing	$ 200.00	$ 160.00	20%
	Protocol	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
1	Analog FM (included in base radio)	N/A	N/A	N/A
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	$ 200.00	$ 160.00	20%
	System Option	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
1	Conventional System	$ 350.00	$ 280.00	20%
2	SMARTNET® II Trunking (includes system option 1)	$ 625.00	$ 500.00	20%
3	SmartZone® Trunking (includes system options 1 & 2)	$ 725.00	$ 580.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
4	Project 25 Conventional System	$ 350.00	$ 280.00	20%
5	Project 25 Phase 1 Trunking Only (includes system option 4)	$ 475.00	$ 380.00	20%
6	Project 25 Phase 2 TDMA (includes system option 4 & 5)	$ 875.00	$ 700.00	20%
7	Project 25 Phase 1 Trunking and SmartZone® Trunking (includes system options 2 & 4)	$ 850.00	$ 680.00	20%
8	Project 25 Phase 2 TDMA and SmartZone® Trunking (includes system options 2, 4 & 5)	$ 1,250.00	$ 1,000.00	20%
	Optional Features	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Channels/Talkgroups			
	2048 Channels/Talkgroups (standard)		N/A	N/A
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	Single-Key DES-OFB (included with Protocol Option 2)	N/A	N/A	N/A
	Single-Key AES	$ 150.00	$ 120.00	20%
	DES-OFB (multi-key)	$ 550.00	$ 440.00	20%
	AES (multi-key)	$ 475.00	$ 380.00	20%
	DES-OFB + AES (Multi-Key)	$ 750.00	$ 600.00	20%
	ARC4 (ADP compatible)	N/A	N/A	N/A
	Programming & Data			
	MDC1200/GE-Star Signaling	$ 50.00	$ 40.00	20%
	Rebanding (requires 700/800 MHz)	$ 110.00	$ 88.00	20%
	FIRESafe™ First Responder	$ 250.00	$ 200.00	20%
	FIRESafe™ First Command (includes FIRESafe™ First Responder)	$ 350.00	$ 280.00	20%
	GPS	$ 100.00	$ 80.00	20%
	Third Party Interface	$ 150.00	$ 120.00	20%
	Keypad Programming (U.S. Federal Government Only)	$ 50.00	$ 40.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
	Project 25 Data Conventional	$ 140.00	$ 112.00	20%

	Project 25 OTAR Conventional & Trunking	$ 750.00	$	600.00	20%
	OTAP (Over-the-Air Programming)	$ 200.00	$	160.00	20%
	The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):				
	Project 25 Authentication	$ 100.00	$	80.00	20%
	Project 25 Data Trunking (includes Project 25 Data Conventional)	$ 200.00	$	160.00	20%

EFJohnson

Viking® VP600

MULTI-PROTOCOL/MULTI-MODE CAPABILITY

- P25 Phase 1 & Phase 2
- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- MDC-1200 and GE-Star signaling
- Mixed Protocol Zones (each channel in a zone can be from a different system)

EASY TO OPERATE

- The VP600 is available in three different model variants: no keypad, limited keypad or full keypad versions
- The VP600 offers the top display on all three models, maximizes viewing while in holster
- Backlit displays with controllable settings to increase visibility in all lighting conditions
- Backlit keypad
- Equipped with multiple visual indicators including battery level and signal strength to check status at a glance
- Ergonomic knobs for easier operation with gloves

RUGGED & RELIABLE

- Meets MIL Standard 810 G specs
- Immersion rated (IP67) *(waterproof in 1 meter of water up to 30 minutes)*
- Dual Shield design (internal metal housing and an external polycarbonate casing for exceptional durability)

SUPERIOR AUDIO QUALITY

- High performance speaker provides 1W nominal audio for loud and clear sound across various noise environments
- Frequency based noise cancellation and audio enhancement; does not require directional adjustment or software changes for different noise environments

P25 COMPLIANT

- Supports P25 CAI (Common Air Interface, Phase 1 & Phase 2)
- Trunked and conventional system protocols Over-the-Air rekeying (OTAR)

ADVANCED FEATURES

- P25 Radio Authentication
- Programmable soft keys, menu and DTMF keys
- Up to 1024 channels
- Text messaging
- Customizable voice announcement
- Conventional vote scan is standard
- Over-the-Air programming (OTAP) option enables you to program radios in the field
- Armada® programming software provides simple fleet management of radios with features including profile templates and sorting/filtering by function or agency
- Elite battery management enables wireless tracking of battery fleet
- Enhanced radio security using software and hardware system keys
- Industry-standard encryption capabilities such as AES or DES-OFB
- ARC4™ software encryption; compatible with ADP™
- Speaker microphone disconnect alarm enhances safety
- Integrated GPS

	Radio - Base Model	List Price	MS Two-Way Radio EPL 3744	Discount
242577AX53XXX	700/800 MHz, 762-806 MHz, 2.5W, and 806-870 MHz, 3W, Model 1 (no keypad)	$ 1,700.00	$ 1,360.00	20%
242577BX53XXX	700/800 MHz, 762-806 MHz, 2.5W, and 806-870 MHz, 3W, Model 2 (limited keypad)	$ 1,850.00	$ 1,480.00	20%
242577CX53XXX	700/800 MHz, 762-806 MHz, 2.5W, and 806-870 MHz, 3W, Model 3 (full keypad)	$ 2,100.00	$ 1,680.00	20%
	Antenna	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	700/800 MHz, 1/2 Wave	N/A	N/A	N/A
	800 MHz, 1/2 Wave	N/A	N/A	N/A
	Battery	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Viking Li-ion Battery	N/A	N/A	N/A

	Housing	List Price	MS Two-Way Radio EPL 3744	Discount
	Black Housing	N/A	N/A	N/A
	High Visibility Housing	$ 200.00	$ 160.00	20%
	Protocol	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
1	Analog FM	N/A	N/A	N/A
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	$ 200.00	$ 160.00	20%
	System Options	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
1	Conventional System	$ 350.00	$ 280.00	20%
2	SMARTNET® II Trunking (includes system option 1)	$ 625.00	$ 500.00	20%
3	SmartZone® Trunking (includes system options 1 & 2)	$ 725.00	$ 580.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
4	Project 25 Conventional System	$ 350.00	$ 280.00	20%
5	Project 25 Phase 1 Trunking Only (includes system option 4)	$ 475.00	$ 380.00	20%
6	Project 25 Phase 2 TDMA (includes system option 4 & 5)	$ 875.00	$ 700.00	20%
7	Project 25 Phase 1 Trunking and SmartZone® Trunking (includes system options 2 & 4)	$ 850.00	$ 680.00	20%
8	Project 25 Phase 2 TDMA and SmartZone® Trunking (includes system options 2, 4 & 5)	$ 1,250.00	$ 1,000.00	20%
	Optional Features	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Channels/Talkgroups			
	1024 Channels/Talkgroups (standard)	N/A	N/A	N/A
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	Single-Key DES-OFB (included with Protocol Option 2)	N/A	N/A	N/A
	Single-Key AES	$ 150.00	$ 120.00	20%
	DES-OFB (multi-key)	$ 550.00	$ 440.00	20%
	AES (multi-key)	$ 475.00	$ 380.00	20%
	ARC4 (ADP compatible)	N/A	N/A	N/A
	Programming & Data			
	MDC1200/GE-Star Signaling	$ 50.00	$ 40.00	20%
	Rebanding (requires 700/800 MHz)	$ 110.00	$ 88.00	20%
	FIRESafe™ First Responder	$ 250.00	$ 200.00	20%
	FIRESafe™ First Command (includes FIRESafe™ First Responder)	$ 350.00	$ 280.00	20%
	GPS (requires 700/800 MHz)	$ 100.00	$ 80.00	20%
	Third Party Interface	$ 150.00	$ 120.00	20%

	Keypad Programming (U.S. Federal Government Only)	$ 50.00	$ 40.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
	Project 25 Data Conventional	$ 140.00	$ 112.00	20%
	Project 25 OTAR Conventional & Trunking	$ 750.00	$ 600.00	20%
	OTAP (Over-the-Air Programming)	$ 200.00	$ 160.00	20%
	The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):			
	Project 25 Authentication	$ 100.00	$ 80.00	20%
	Project 25 Data Trunking (includes Project 25 Data Conventional)	$ 200.00	$ 160.00	20%

EFJohnson

Viking® VM900 700/800 MHz | VHF

ROBUST & FLEXIBLE

- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- All supported protocols (Phase 1 & 2, Motorola SMARTNET® II/SmartZone®, FM Analog) available simultaneously
- Advanced P25 features such as Authentication and Over-the-Air-Rekeying
- Industry-standard encryption capabilities: AES and DES-OFB
- ARC4™ software encryption; compatible with ADP™
- Conventional vote scan is standard
- Supports MDC-1200 and GE-Star signaling
- Up to 1024 channels
- Over-the-Air programming (OTAP) option enables you to program radios in the field
- Over-the-Intranet programming (OTIP) allows you to program radios through a wireless access point or Ethernet interface
- Enhanced radio security using software and hardware system keys
- Armada® programming software provides simple fleet management of radios with features including profile templates and sorting/filtering by function or agency

OPTIONAL VIKING CONTROL HEAD

- Full color display - supports 16M colors at 480x128 resolution
- Transmissive display provides exceptional direct-sunlight
- contrast with and without polarized sunglasses
- Wide viewing angle > 160°

Viking Control Head

Standard Control Head

DATA & CONTROL INTERFACES

- Supports P25 IP packet data
- GPS AVL data (requires external GPS receiver)

MULTIPLE CONFIGURATION OPTIONS

- Dash mount
- Remote mount
- Dash mount with remote control head
- Dual remote control heads
- Swap ES mobiles with Viking Mobiles - retain and reuse control heads and vehicle connections
- Internal or external speaker
- Fixed control stations
- Complete line of accessories including microphones, speakers, and encryption keyloading devices

	Radio - Base Model	List Price	MS Two-Way Radio EPL 3744	Discount
	700/800 MHz, 762-870 MHz + VHF, 30/35W Dash Mount	$ 2,600.00	$ 2,080.00	20%
	700/800 MHz, 762-870 MHz + VHF, 30/35W Remote Mount	$ 2,600.00	$ 2,080.00	20%
	700/800 MHz, 762-870 MHz + VHF, 30/35W Control Station (includes Power supply & cabinet)	$ 2,895.00	$ 2,316.00	20%
	Control Head Type	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Dash Mount Options			
	Standard LCD Control Head			
	Dash-Mount Control Head (includes standard palm mic)	$ 80.00	$ 64.00	20%

	Dash-Mount Control Head with no mic	N/A	N/A	N/A
	Dash-Mount Control with Remote Control Head (includes one remote control head & normal bracket)	$ 750.00	$ 600.00	20%
	Viking Control Head			
	Dash-Mount Control Head (includes standard palm mic & external speaker)	$ 860.00	$ 688.00	20%
	Dash-Mount Control Head with no mic (includes external speaker)	$ 780.00	$ 624.00	20%
	Dash-Mount Control with Remote Control Head (includes one remote control head, additional mic & remote control head)	$ 2,190.00	$ 1,752.00	20%
	Remote Mount Options			
	Standard LCD Control Head			
	Remote Control Head (includes standard palm mic)	$ 550.00	$ 440.00	20%
	Remote Control Head with no mic	$ 470.00	$ 376.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, and two mounting brackets)	$ 1,200.00	$ 960.00	20%
	Dual Control Head with no mics	$ 1,040.00	$ 832.00	20%
	Remote Mount Options			
	Viking Control Head			
	Remote Control Head (includes standard palm mic & external speaker)	$ 1,320.00	$ 1,056.00	20%
	Remote Control Head with no mic (includes external speaker)	$ 1,240.00	$ 992.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, two mounting brackets, and two external speakers)	$ 2,740.00	$ 2,192.00	20%
	Dual Control Head with no mics (includes two external speakers)	$ 2,580.00	$ 2,064.00	20%
	Accessory Cable	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Cable, Serial, USB, Standard Interface R597-5357-70201 (included with dash mount)	N/A	N/A	N/A
	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (included with remote mount)	N/A	N/A	N/A

	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (dash mount)	$ 30.00	$ 24.00	20%
	Cable, Single Remote, Serial, USB, PVP/UDDI, Standard Interface R597-5357-73801 (remote mount)	$ 60.00	$ 48.00	20%
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (included with remote dual mount)	N/A	N/A	N/A
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (single remote mount)	$ 60.00	$ 48.00	20%

	Protocol	List Price	MS Two-Way Radio EPL 3744	Discount
1	Analog FM	N/A	N/A	N/A
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	$ 350.00	$ 280.00	20%

	System Option	List Price	MS Two-Way Radio EPL 3744	Discount
1	Conventional System	$ 550.00	$ 440.00	20%
2	SMARTNET® II Trunking (includes system option 1)	$ 600.00	$ 480.00	20%
3	SmartZone® Trunking (includes system options 1 & 2)	$ 750.00	$ 600.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
4	Project 25 Conventional System	$ 550.00	$ 440.00	20%
5	Project 25 Phase 1 Trunking Only (includes system option 4)	$ 775.00	$ 620.00	20%
6	Project 25 Phase 2 TDMA (includes system option 4 & 5)	$ 1,175.00	$ 940.00	20%
7	Project 25 Phase 1 Trunking and SmartZone® Trunking (includes system options 2 & 4)	$ 975.00	$ 780.00	20%
8	Project 25 Phase 2 TDMA and SmartZone® Trunking (includes system options 2, 4 & 5)	$ 1,375.00	$ 1,100.00	20%

	Optional Features	List Price	MS Two-Way Radio EPL 3744	Discount
	Channels/Talkgroups			
	1024 Channels/Talkgroups (standard)	N/A	N/A	N/A
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	Single-Key DES-OFB (included with Protocol Option 2)	N/A	N/A	N/A
	Single-Key AES	$ 150.00	$ 120.00	20%
	DES-OFB (multi-key)	$ 550.00	$ 440.00	20%
	AES (multi-key)	$ 475.00	$ 380.00	20%

	ARC4 (ADP compatible)	N/A	N/A	N/A
	Programming & Data			
	MDC1200/GE-Star Signaling	$ 50.00	$ 40.00	20%
	Rebanding	$ 110.00	$ 88.00	20%
	The following selection requires Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
	Project 25 Data Conventional	$ 140.00	$ 112.00	20%
	Project 25 OTAR Conventional & Trunking	$ 750.00	$ 600.00	20%
	OTAP (Over-the-Air Programming)	$ 200.00	$ 160.00	20%
	OTIP (Over-the-Intranet Programming)	$ 200.00	$ 160.00	20%
	The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):			
	Project 25 Authentication	$ 100.00	$ 80.00	20%
	Project 25 Data Trunking (includes Project 25 Data Conventional)	$ 200.00	$ 160.00	20%

EFJohnson

Viking® VM600

ROBUST & FLEXIBLE

- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- All supported protocols (Phase 1 & 2, Motorola SMARTNET® II/SmartZone®, FM Analog) available simultaneously
- Advanced P25 features such as Authentication and Over-the-Air-Rekeying
- Industry-standard encryption capabilities: AES and DES-OFB
- ARC4™ software encryption; compatible with ADP™
- Conventional vote scan is standard
- Supports MDC-1200 and GE-Star signaling
- Up to 1024 channels
- Over-the-Air programming (OTAP) option enables you to program radios in the field
- Over-the-Intranet programming (OTIP) allows you to program radios through a wireless access point or Ethernet interface
- Enhanced radio security using software and hardware system keys
- Armada® programming software provides simple fleet management of radios with features including profile templates and sorting/filtering by function or agency

OPTIONAL LIGHTNING™ CONTROL HEAD

- Electroluminescent display (visible through polarized glasses - does not cause birefringence)
- Four display modes
- Viewing angle > 160°

Lightning™ Control Head

Standard Control Head

DATA & CONTROL INTERFACES

- Supports P25 IP packet data
- GPS AVL data *(requires external GPS receiver)*

MULTIPLE CONFIGURATION OPTIONS

- Dash mount
- Remote mount
- Dash mount with remote control head
- Dual remote control heads
- Internal or external speaker
- Fixed control stations
- Complete line of accessories including microphones, speakers, and encryption keyloading devices

	Radio - Base Model	List Price	MS Two-Way Radio EPL 3744	Discount
242567GXXXXAA28	700/800 MHz, 30/35W, 762-870 MHz Dash Mount	$ 1,700.00	$ 1,360.00	20%
242567HXXXXAA28	700/800 MHz, 30/35W, 762-870 MHz Remote Mount	$ 1,700.00	$ 1,360.00	20%
242567GXXXBAA28	700/800 MHz, 30/35W, 762-870 MHz Control Station (includes Power supply & cabinet)	$ 1,995.00	$ 1,596.00	20%
	Control Head Type	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Dash Mount Options			
	Standard LCD Control Head			
	Dash-Mount Control Head (includes standard palm mic)	$ 80.00	$ 64.00	20%

	Dash-Mount Control Head with no mic	N/A	N/A	N/A
	Dash-Mount Control with Remote Control Head (includes one remote control head & normal bracket)	$ 750.00	$ 600.00	20%
	Lightning Control Head			
	Dash-Mount Control Head (includes standard palm mic & external speaker)	$ 860.00	$ 688.00	20%
	Dash-Mount Control Head with no mic (includes external speaker)	$ 780.00	$ 624.00	20%
	Dash-Mount Control with Remote Control Head (includes one remote control head, additional mic & remote control head)	$ 2,190.00	$ 1,752.00	20%
	Remote Mount Options			
	Standard LCD Control Head			
	Remote Control Head (includes standard palm mic)	$ 550.00	$ 440.00	20%
	Remote Control Head with no mic	$ 470.00	$ 376.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, and two mounting brackets)	$ 1,200.00	$ 960.00	20%
	Dual Control Head with no mics	$ 1,040.00	$ 832.00	20%
	Remote Mount Options			
	Lightning Control Head			
	Remote Control Head (includes standard palm mic & external speaker)	$ 1,320.00	$ 1,056.00	20%
	Remote Control Head with no mic (includes external speaker)	$ 1,240.00	$ 992.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, two mounting brackets, and two external speakers)	$ 2,740.00	$ 2,192.00	20%
	Dual Control Head with no mics (includes two external speakers)	$ 2,580.00	$ 2,064.00	20%

	Accessory Cable	List Price	MS Two-Way Radio EPL 3744	Discount
	Cable, Serial, USB, Standard Interface R597-5357-70201 (included with dash mount)	N/A	N/A	N/A
	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (included with remote mount)	N/A	N/A	N/A

	Cable, Single remote, Serial, USB, Standard Interface R597-5357-70701 (dash mount)	$ 30.00	$ 24.00	20%
	Cable, Single Remote, Serial, USB, PVP/UDDI, Standard Interface R597-5357-73801 (remote mount)	$ 60.00	$ 48.00	20%
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (included with remote dual mount)	N/A	N/A	N/A
	Cable, Dual Remote, Serial, USB, Standard R597-5357-74201 (single remote mount)	$ 60.00	$ 48.00	20%

	Protocol	List Price	MS Two-Way Radio EPL 3744	Discount
1	Analog FM	N/A	N/A	N/A
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	$ 350.00	$ 280.00	20%

	System Option	List Price	MS Two-Way Radio EPL 3744	Discount
1	Conventional System	$ 550.00	$ 440.00	20%
2	SMARTNET® II Trunking (includes system option 1)	$ 600.00	$ 480.00	20%
3	SmartZone® Trunking (includes system options 1 & 2)	$ 750.00	$ 600.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
4	Project 25 Conventional System	$ 550.00	$ 440.00	20%
5	Project 25 Phase 1 Trunking Only (includes system option 4)	$ 775.00	$ 620.00	20%
6	Project 25 Phase 2 TDMA (includes system option 4 & 5)	$ 1,175.00	$ 940.00	20%
7	Project 25 Phase 1 Trunking and SmartZone® Trunking (includes system options 2 & 4)	$ 975.00	$ 780.00	20%
8	Project 25 Phase 2 TDMA and SmartZone® Trunking (includes system options 2, 4 & 5)	$ 1,375.00	$ 1,100.00	20%

	Optional Features	List Price	MS Two-Way Radio EPL 3744	Discount
	Channels/Talkgroups			
	1024 Channels/Talkgroups (standard)	N/A	N/A	N/A
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	Single-Key DES-OFB (included with Protocol Option 2)	N/A	N/A	N/A
	Single-Key AES	$ 150.00	$ 120.00	20%
	DES-OFB (multi-key)	$ 550.00	$ 440.00	20%

	AES (multi-key)	$ 475.00	$ 380.00	20%
	ARC4 (ADP compatible)	N/A	N/A	N/A
	Programming & Data			
	MDC1200/GE-Star Signaling	$ 50.00	$ 40.00	20%
	Rebanding	$ 110.00	$ 88.00	20%
	Third Party Interface	$ 150.00	$ 120.00	20%
	The following selection requires Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
	Project 25 Data Conventional	$ 140.00	$ 112.00	20%
	Project 25 OTAR Conventional & Trunking	$ 750.00	$ 600.00	20%
	OTAP (Over-the-Air Programming)	$ 200.00	$ 160.00	20%
	OTIP (Over-the-Intranet Programming)	$ 200.00	$ 160.00	20%
	The following selections require a System Option 5-8 (options with Phase 1 or Phase 2):			
	Project 25 Authentication	$ 100.00	$ 80.00	20%
	Project 25 Data Trunking (includes Project 25 Data Conventional)	$ 200.00	$ 160.00	20%

EFJohnson

53SL ES

Lightning® Control Head

ROBUST & FLEXIBLE

- All supported protocols available simultaneously
- DES and DES-OFB encryption with 64 keys
- Compatible with Motorola® System v 7.x and Motorola Astro®
- SMARTNET® II/SmartZone® interoperability
- Conventional vote scan is standard
- Supports MDC-1200 and GE-Star signaling
- Up to 512 talkgroups
- Over-the-Air programming (OTAP) option enables you to program radios in the field
- Easy radio programming & feature updating with EFJohnson's PC Configure™ software
- Simplified cabling with single multi-function accessory connection in the rear

DATA & CONTROL INTERFACES

- Supports P25 conventional IP packet data
- Supports GPS AVL data

OPTIONAL LIGHTNING® CONTROL HEAD

- Electroluminescent display
- Four display modes

MULTIPLE CONFIGURATION OPTIONS

- Dash mount
- Remote mount
- Dash mount with remote control head
- Dual remote control heads
- Handheld controller
- Internal or external speaker
- Fixed control stations
- Complete line of accessories including microphones, speakers, and encryption keyloading devices

	Radio - Base Model	List Price	MS Two-Way Radio EPL 3744	Discount
242547G80xxAAB6	700/800 MHz, 30/35W, 762-870 MHz Dash Mount	$ 1,700.00	$ 1,360.00	20%
242547H80xxAAB6	700/800 MHz, 30/35W, 762-870 MHz Remote Mount	$ 1,700.00	$ 1,360.00	20%
242547G80xxAAB6	700/800 MHz, 30/35W, 762-870 MHz Control Station	$ 1,995.00	$ 1,596.00	20%
	Control Head Type	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
	Dash Mount Options			
	Standard LCD Control Head			
	Dash-Mount Control Head (includes standard palm mic)	$ 80.00	$ 64.00	20%
	Dash-Mount Control Head with no mic	N/A	N/A	N/A
	Dash-Mount Control with Remote Control Head (includes one remote control head & normal bracket)	$ 650.00	$ 520.00	20%
	Lightning Control Head			
	Dash-Mount Control Head (includes standard palm mic & external speaker)	$ 850.00	$ 680.00	20%

	Dash-Mount Control Head with no mic (includes external speaker)	$ 770.00	$ 616.00	20%
	Dash-Mount Control with Remote Control Head (includes one remote control head, additional mic & remote control head)	$ 2,190.00	$ 1,752.00	20%
	Remote Mount Options			
	Standard LCD Control Head			
	Remote Control Head (includes standard palm mic)	$ 550.00	$ 440.00	20%
	Remote Control Head with no mic	$ 470.00	$ 376.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, and two mounting brackets)	$ 1,200.00	$ 960.00	20%
	Dual Control Head with no mics	$ 1,040.00	$ 832.00	20%
	Handheld Controller (external speaker included)	$ 830.00	$ 664.00	20%
	Remote Mount Options			
	Lightning Control Head			
	Remote Control Head (includes standard palm mic & external speaker)	$ 1,320.00	$ 1,056.00	20%
	Remote Control Head with no mic (includes external speaker)	$ 1,240.00	$ 992.00	20%
	Dual Control Head (includes two remote control heads attached to the remote mount radio, two microphones, two mounting brackets, and two external speakers)	$ 2,740.00	$ 2,192.00	20%
	Dual Control Head with no mics (includes two external speakers)	$ 2,580.00	$ 2,064.00	20%

	Protocol	List Price	MS Two-Way Radio EPL 3744	Discount
1	Analog FM	N/A	N/A	N/A
2	Digital/Project 25 CAI AMBE+2 with Free Single-Key DES-OFB (includes protocol option 1)	$ 350.00	$ 280.00	20%

	System Option	List Price	MS Two-Way Radio EPL 3744	Discount
1	Conventional System	$ 550.00	$ 440.00	20%
2	SMARTNET® II Trunking (includes system option 1)	$ 600.00	$ 480.00	20%
3	SmartZone® Trunking (includes system options 1 & 2)	$ 750.00	$ 600.00	20%
	The following selections require Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
4	Project 25 Conventional System	$ 550.00	$ 440.00	20%
5	Project 25 Phase 1 Trunking Only (includes system option 4)	$ 775.00	$ 620.00	20%
6	Project 25 Phase 1 Trunking and SmartZone® Trunking (includes system options 2 & 4)	$ 975.00	$ 780.00	20%

	Optional Features	List Price	MS Two-Way Radio EPL 3744	Discount
	Channels/Talkgroups			
	512 Channels/Talkgroups (standard)	N/A	N/A	N/A
	Encryption (requires Protocol Option 2 - Digital/Project 25 CAI AMBE+2)			
	Single-Key DES-OFB (included with Protocol Option 2)	N/A	N/A	N/A
	Single-Key AES	$ 150.00	$ 120.00	20%
	DES-OFB (multi-key)	$ 550.00	$ 440.00	20%
	AES (multi-key)	$ 475.00	$ 380.00	20%
	Programming & Data			
	MDC1200/GE-Star Signaling	$ 50.00	$ 40.00	20%
	Rebanding	$ 110.00	$ 88.00	20%
	The following selection requires Protocol Option 2 (Digital/Project 25 CAI AMBE+2):			
	Project 25 Data Conventional	$ 140.00	$ 112.00	20%
	Project 25 OTAR Conventional & Trunking	$ 750.00	$ 600.00	20%
	OTAP (Over-the-Air Programming)	$ 200.00	$ 160.00	20%

EFJohnson

TK-5430 7/800 MHz • P25 PHASE 1 & 2 • FM ANALOG • LTR

MAIN FEATURES

- Digital operation in P25 (Phases 1 & 2)
- P25 Phase 1 Conventional/Trunked Operation (standard)
- Mixed Digital, FM Analog, and LTR Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, Color 1.74" (240 x 180 pixels) Transflective TFT Display for better interface even in direct sunlight and with use of polarized sunglasses
- Easy to follow GUI for at-a-glance operational status checking and Multi-line Text to convey more information
- 4-way Directional-pad (D-pad) and 2-Position Lever Switch for intuitive control and operation
- Built-In GPS Receiver/Antenna for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Renowned Audio Quality can be achieved with Active Noise Cancelling that utilizes built-in DSP with two microphones for suppression of ambient noise (dual-mic)
- Built-in 56-bit DES Encryption (4-key DES standard)
- Optional 256-bit AES Encryption
- Built-in Motion Sensor for life-critical man down detection
- microSD/microSDHC Memory Card Slot for increased memory capacity for "Voice & Data"
- IP67/68 and MIL-STD-810 C/D/E/F/G

GENERAL FEATURES

- 6 W (136-174 MHz) Models
- 5 W (380-470, 450-520 MHz) Models
- 3 W (700/800 MHz) Models
- Full Key Models (w/ numeric keypad) and Standard Key Models (w/o numeric keypad)
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- 1 W Loud Speaker Audio

DIGITAL - P25 MODE

- P25 Phase 1 Conventional/Trunked Operation (standard)
- P25 Phase 2 Trunked Operation
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- Over-the-Air Programming*1

FM MODES - GENERAL

- Conventional & LTR Zones
- NPSPAC (USA only) Channels (±4.0 Modulation)
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & Two-Tone
- Built-in Voice Inversion Scrambler

INTELLIGENT BATTERY SYSTEM (OPTION)

- System consists of the optional high-capacity Li-Ion Battery Series (KNB-L1/L2/L3), Rapid Charger (KSC-Y32), and Battery Reader (KAS-12) software
- Up to 30 Rapid Chargers can be chain-connected to a PC installed with the KAS-12
- Battery conditions are displayed in color illuminated indicators on the charger, which are also displayed on a connected PC with the same color scheme
- Up to 1,000 batteries can be managed at a time (requires an additional option)

Radio - Base Model		List Price	MS Two-Way Radio EPL 3744	Discount
TK-5430F2	700 / 800 MHz, 3.0 Watts Analog/P25 Conventional/P25 Phase I Trunking - Standard Key Model	$ 1,400.00	$ 1,120.00	20%
TK-5430F3	700 / 800 MHz, 3.0 Watts Analog/P25 Conventional/P25 Phase I Trunking - Full Key Model	$ 1,450.00	$ 1,160.00	20%

Licensing System	List Price	MS Two-Way Radio EPL 3744	Discount
KPT-300LMC is a required software package that is used to authenticate software (FPU) and radio feature license keys for the TK-5x30 Series radios.			

KPT-300LMC	License Management Client		N/A	N/A
L-5000	KPT-300LMC License Key		N/A	N/A

Software Licensing Options		List Price	MS Two-Way Radio EPL 3744	Discount
Note: A unique license key is required for each PC with software installed. A single license key will not authorize multiple PCs.				
KPG-D1NK	License Key for KPG-D1NK Programming Software for TK-5x30 Portable/Mobile (Windows® Vista/7/8/8.1) ***Note: Requires KPT-300LMC for authentication***	$ 155.00	$ 124.00	20%
P25 Trunked Programming Capability (licensed by either 1 or 2 below):				
	1. USB Key Type: Advanced System Key (ASK)- See KWD-ASK-MK and AK			
	2. Software Key Type: System Key File (SKF)- See L-5005			
KPG-180AP	OTAP Manager Software • License includes 50 radios • To add more radios / serial ports, you must contact EF Johnson Technologies (1-800-328-3911 Option 1) ***Note: Requires KPT-300LMC for authentication***	$ 884.00	$ 707.20	20%
KAS-12K	License Key for KAS-12 Battery Reader Software for KNB-L1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) ***Note: Requires KPT-300LMC for authentication***	$ 85.00	$ 68.00	20%
License Keys	**Software License Key Discount Structure:** 1 License Key - 2-4 License Keys 10% Off 5-14 License Keys 35% Off 15-24 License Keys 40% Off 25+ License Keys 45% Off			

Radio Feature License Options		List Price	MS Two-Way Radio EPL 3744	Discount

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.

Note: Radio Feature License Keys can be transferable from a radio to radio within 72 hours count started from being authenticated to a Radio. Once license transfered radio is authenticated by KPT-300LMC, 72 hours is reset and count started from first.

General Radio Features				
KWD-5000CH	License Key for 4000 Channel Expansion	$ 420.00	$ 336.00	20%
KWD-5001FP	License Key for Front Panel Programming	$ 300.00	$ 240.00	20%
KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00	$ 84.00	20%

P25 Radio Features				
KWD-5100CV	License Key for P25 Conventional	N/A	N/A	N/A
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	N/A	N/A	N/A
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00	$ 320.00	20%
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00	$ 560.00	20%
KWD-5105VT	License Key for P25 Conventional Voting Scan	$ 120.00	$ 96.00	20%
KWD-5106DT	License Key for P25 Packet Data (required for Trunked OTAR/GPS/Text)	$ 180.00	$ 144.00	20%

Antennas		List Price	MS Two-Way Radio EPL 3744	Discount
KRA-32K	700/800 MHz Whip Antenna	$ 35.00	$ 28.00	20%
KRA-36	700/800 MHz Stubby Antenna	$ 25.00	$ 20.00	20%

Batteries & Chargers		List Price	MS Two-Way Radio EPL 3744	Discount
KNB-L1M	Li-ion 2000mAh (Compact Slim)	$ 115.00	$ 92.00	20%
KNB-L2M	Li-ion 2600mAh (Standard)	$ 135.00	$ 108.00	20%
KNB-L3M	Li-ion 3400mAh (High Capacity)	$ 175.00	$ 140.00	20%
KSC-Y32K	Rapid rate single unit charger (Long-Life Charge Mode capable with KAS-12 Software) **Note:** NiMH/Li-ion battery only	$ 115.00	$ 92.00	20%
KAS-12K	License Key for KAS-12 **(Authentication required)** Battery Reader Software for KNB-L1M/L2M/L3M & KSC-Y32 (Windows® Vista/7/8/8.1)	$ 85.00	$ 68.00	20%
KSC-32	Rapid rate single unit charger	$ 70.00	$ 56.00	20%
KSC-326K	Rapid rate 6-unit charger	$ 630.00	$ 504.00	20%
KMB-30M	Wall Mount Bracket for KSC-326K/256K	$ 33.75	$ 27.00	20%
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	$ 119.00	$ 95.20	20%

Carrying Accessories		List Price	MS Two-Way Radio EPL 3744	Discount
KBH-11	Spring action belt clip (2.5")	$ 14.70	$ 11.76	20%
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	$ 26.30	$ 21.04	20%
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	$ 22.00	$ 17.60	20%
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case	$ 36.75	$ 29.40	20%

KLH-200K3	Heavy duty leather carrying case for TK-5x30-series (for both K2 & K3 models)	$	44.25	$ 35.40	20%
KLH-201K3	Nylon carrying case for TK-5430-series (for both keypad models)	$	26.30	$ 21.04	20%
Special Color Housing		**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KWD-YH-5000	Yellow Housing Kit for TK-5x30 series Portables (Standard Key Model Only) Order **L-5024** for Factory Install. (Eligible for warranty of IP67/68 immersion) ***Note:*** *If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.*	$	40.00	$ 32.00	20%
KWD-OH-5000	Orange Housing Kit for TK-5x30 series Portables (Standard Key Model Only) Order **L-5025** for Factory Install. (Eligible for warranty of IP67/68 immersion) ***Note:*** *If you order only housing and perform Dealer Installation, IP67/68 Warranty Claim will not be eligible.*	$	40.00	$ 32.00	20%
Microphones & Audio Accessories		**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KMC-54WDM	MIL-SPEC, IP67 (Immersion) Speaker Mic **Compatible with ANR Feature** **Note:** only compatible with a TK-5x30 series portable	$	130.00	$ 104.00	20%
KMC-42WDM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic	$	114.00	$ 91.20	20%
KMC-49	MIL-SPEC, Speaker Mic. with Antenna Connector **Note**: 5/16" Coax cable hex wrench included (antenna is not included).	$	250.00	$ 200.00	20%
KEP-1	3.5mm earphone kit for KMC-41/42W/54W Speaker Mics	$	52.50	$ 42.00	20%
KEP-2	2.5mm earphone kit for KMC-49 Speaker Mic	$	52.50	$ 42.00	20%
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30	$	51.50	$ 41.20	20%
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30	$	54.75	$ 43.80	20%
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4	$	64.00	$ 51.20	20%
KCT-51	Hirose 6-pin Adapter (adapts KVL/aftermarket audio acc. to portable connector)	$	215.00	$ 172.00	20%
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black)	$	156.50	$ 125.20	20%
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black)	$	184.00	$ 147.20	20%

KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT	$	126.00	$	100.80	20%
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & PTT	$	420.00	$	336.00	20%
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & PTT	$	368.00	$	294.40	20%
Encryption Modules			**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$	850.00	$	680.00	20%
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$	550.00	$	440.00	20%
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$	525.00	$	420.00	20%
KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$	368.00	$	294.40	20%
Service Related Accessories			**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KPG-36XM	Full Speed USB Programming interface cable	$	158.50	$	126.80	20%
KPG-93	KVL-3000 Plus/4000 Interface Cable for P25 Portables	$	262.50	$	210.00	20%

KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** Enables P25 Trunked system programming privileges in a KPG-D1NK. • For TK-5x30 series only • Must be activated by trunked system operator (SYSOP) with KWD-ASK-MK Master Key • Must have KPG-D1NK • Configurable expiration period of KWD-ASK-AK set by KWD-ASK-MK is available for 3 years for built in battery. USB Key must be replaced since the expiration set up dose not work after 3 years.	$ 208.00	$ 166.40	20%
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x30 series only. • Sold to trunked system operator (SYSOP) or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Purchase KWD-ASK-AK Access Keys if needed.	$ 500.00	$ 400.00	20%

Installation/Tuning Charges		List Price	MS Two-Way Radio EPL 3744	Discount
L-5000	Account Registration Key **Note:** specify the number of PC's used for Radio Feature License Activation.	N/A	N/A	N/A
L-5001	Factory Activation of Radio Feature Licenses (per Radio) **Note:** Must purchase Radio Feature Licenses separately	$ 120.00	$ 96.00	20%
L-5002	NX-5200/5300/5400 Programming (with basic TX/RX check)	$ 37.50	$ 30.00	20%
L-5003	Install KWD-AE30K in TK-5x30 series Portable (Must purchase module separately)	$ 75.00	$ 60.00	20%
L-5004	Install KWD-AE31K in TK-5x30 series Portable (Must purchase module separately)	$ 75.00	$ 60.00	20%

L-5005	KPG-D1NK System Key File (SKF) **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • Trunked system operator (SYSOP) must provide 3-digit HEX HSID to EF Johnson with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Must have KPG-D1NK. • EF Johnson ships an encrypted *.SKF file via E-Mail to the address provided on the P25 Trunking System Keys Request Form placed on Kenwood Tools. • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$	132.00	$	105.60	20%
L-5024	Assemble Yellow Housing KWD-YH-5000 with TK-5x30 series Portable	$	27.00	$	21.60	20%
L-5025	Assemble Orange Housing KWD-OH-5000 with TK-5x30 series Portable	$	27.00	$	21.60	20%

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled *by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.*

The following information may be requested to be submitted at time of order (this information must meet internal approvals prior to shipment even if being returned later:

a) Initial Destination: *Initial delivery point if different from Ultimate Destination*
(customer distribution center, headquarters, dealership, manufacturer's representative)
** Business/Agency Name:*
** Address:*
** Contact Person Name:*
** Contact Phone:*
b) Ultimate Destination *: Final delivery point(s); deployment/distribution*
** Business/Agency Name:*
** Address:*
** Contact Person Name:*
** Contact Phone:*
c) Intended Use of Radios: *Describe how the radios will be used in your business operations*

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping

A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

EFJohnson

TK-5730/5830/5930

7/800 MHz • UHF • VHF • P25 PHASE 1 & 2 • FM ANALOG • LTR

MAIN FEATURES

- Digital operation in P25 (Phases 1 & 2)
- P25 Phase 1 Conventional/Trunked Operation (standard)
- Mixed Digital, FM Analog, and LTR Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, Color 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status checking
- Easy to follow GUI & Multi-line Text to convey more information
- Dual Remote Control Head Option and Multi-Band (Multi RF Deck) Control Option providing scalable configurations for various operations and applications
- Built-In GPS Receiver for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Renowned Audio Quality can be achieved with Active Noise Cancelling that utilizes built-in DSP with two microphones for suppression of ambient noise (dual-mic)
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Memory Card Slot for increased memory capacity for "Voice & Data"
- IP54/55 and MIL-STD-810 C/D/E/F/G

GENERAL FEATURES

- 5 W to 50 W (136-174 MHz) Models
- 5 W to 45 W (380-470, 450-520 MHz) Models
- 2W-35W (700-800 Mhz) Models
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- 4 W Speaker Audio

FM MODES - GENERAL

- Conventional & LTR Zones
- MDC-1200: PTT ID ANI / Caller ID Display, Emergency, Radio Check / Inhibit
- QT / DQT & Two-Tone
- Built-in Voice Inversion Scrambler

DIGITAL - P25 MODE

- P25 Phase 1 Conventional/Trunked Operation
- P25 Phase 2 Trunked Operation
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- P25 Over-the-Air Re-keying
- Over-the-Air Programming*1

MULTIPLE CONFIGURATIONS (OPTION)

The TK-5730 / 5830 / 5930 allows users to create a variety of configurations to suit different requirements by combining different options.

- **Single Remote Control Head/Single RF Deck:** The simplest configuration - the mobile controlled by a remote control head.
- **Single Remote Control Head/Multi RF Decks:** You can operate multiple (up to three) radio decks from a single control head.
- **Dual Remote Control Heads/Single RF Deck:** One controller can be mounted on the dashboard, with the other control head remotely mounted (such as the back of an ambulance or fire apparatus).
- **Dual Remote Control Heads/Multi RF Decks:** This adds the convenience of a dual control head to the above configuration. Advantage: 2 operators can control up to 3 radios from separate control heads.

*1 Requires KENWOOD OTAP Management software.

Radio - Base Model		List Price	MS Two-Way Radio EPL 3744	Discount
TK-5930BF	7/800, 45 Watts, Analog, P25 Conventional, P25 Phase I Trunking **RF Deck Only (No KCH-19 Control Head, KMC-35 Microphone, KMB-33 Bracket, KCT-23 DC Cable)**	$ 1,395.00	$ 1,116.00	20%

Licensing System		List Price	MS Two-Way Radio EPL 3744	Discount
KPT-300LMC is a required software package that is used to authenticate software (FPU) and radio feature license keys for the TK-5x30 Series radios.				
KPT-300LMC	License Management Client	N/A	N/A	N/A

L-5000	KPT-300LMC License Key	N/A	N/A	N/A
Software Licensing Options		**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
Note: A unique license key is required for each PC with software installed. A single license key will not authorize multiple PCs.				
KPG-D1NK	License Key for KPG-D1NK Programming Software for TK-5x30 Portable/Mobile (Windows® Vista/7/8/8.1) ***Note: Requires KPT-300LMC for authentication***	$ 155.00	$ 124.00	20%
P25 Trunked Programming Capability (licensed by either 1 or 2 below):				
	1. USB Key Type: Advanced System Key (ASK)- See KWD-ASK-MK and AK			
	2. Software Key Type: System Key File (SKF)- See L-5005			
KPG-180AP	OTAP Manager Software • License includes 50 radios • To add more radios / serial ports, you must contact EF Johnson Technologies (1-800-328-3911 Option 1) ***Note: Requires KPT-300LMC for authentication***	$ 884.00	$ 707.20	20%
KAS-12K	License Key for KAS-12 Battery Reader Software for KNB-L1/2/3/ & KSC-Y32 (Windows® Vista/7/8/8.1) ***Note: Requires KPT-300LMC for authentication***	$ 85.00	$ 68.00	20%
License Keys	**Software License Key Discount Structure:** 1 License Key - 2-4 License Keys 10% Off 5-14 License Keys 35% Off 15-24 License Keys 40% Off 25+ License Keys 45% Off			
Radio Feature License Options		**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**

PCs registered under the same KPT-300LMC Account Registration Key (License Key) will be able to authentic Radio Features that can then be viewed / shared / managed by all registered users for the account.
Note: Radio Feature License Keys can be transferable from a radio to radio within 72 hours count started from being authenticated to a Radio. Once license transfered radio is authenticated by KPT-300LMC, 72 hours is reset and count started from first.

L-5000	Account Registration Key **Note:** specify the number of PC's used for Radio Feature License Activation.	N/A	N/A	N/A
General Radio Features				
KWD-5000CH	License Key for 4000 Channel Expansion	$ 420.00	$ 336.00	20%
KWD-5001FP	License Key for Front Panel Programming	$ 300.00	$ 240.00	20%

KWD-5002SD	License Key for microSD Memory Card Slot Activation	$ 105.00	$ 84.00	20%
P25 Radio Features				
KWD-5100CV	License Key for P25 Conventional	N/A	N/A	N/A
KWD-5101TR	License Key for P25 Phase 1 Trunking (requires KWD-5100CV)	N/A	N/A	N/A
KWD-5102TR	License Key for P25 Phase 2 Trunking (requires KWD-5100CV & KWD-5101TR)	$ 400.00	$ 320.00	20%
KWD-5103RK	License Key for P25 OTAR (requires KWD-5106DT for a Trunking Operation)	$ 700.00	$ 560.00	20%
KWD-5105VT	License Key for P25 Conventional Voting Scan	$ 120.00	$ 96.00	20%
KWD-5106DT	License Key for P25 Packet Data (required for Trunked OTAR/GPS/Text)	$ 180.00	$ 144.00	20%
Dash or Remote Configuration ***(Firmware Release 1.5 or Later required)***		**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
TK-5930BF	7/800, 45 Watts, Analog, P25 Conventional, P25 Phase I Trunking - **RF Deck Only (No KCH-19 Control Head, KMC-35 Microphone, KMB-33 Bracket, KCT-23 DC Cable)**	$ 1,395.00	$ 1,116.00	20%
KCH-19M	Basic Control Panel	$ 180.00	$ 144.00	20%
KCH-20RM	Full Featured Remote Control Panel **Note**: Remote configuration only. No Internal Speaker included. KES-5/3 is required.	$ 600.00	$ 480.00	20%
KRK-14HM	Control Head Interface Kit for KCH-19M	$ 159.00	$ 127.20	20%
KRK-15BM	Control Head Remote Kit for a RF Deck	$ 50.00	$ 40.00	20%
KCT-71M2	Remote Control Cable (17 feet)	$ 70.00	$ 56.00	20%
KCT-71M3	Remote Control Cable (25 feet)	$ 80.00	$ 64.00	20%
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug)	$ 52.50	$ 42.00	20%
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	$ 94.50	$ 75.60	20%
KMB-33M	Standard Mounting Bracket (same as supplied)	$ 14.00	$ 11.20	20%
KES-3S	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	$ 44.25	$ 35.40	20%
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) or KCT-72M (connection cable) installed.	$ 61.25	$ 49.00	20%
KAP-2	Horn Alert/P.A. Relay Option	$ 63.00	$ 50.40	20%
KCT-72M	Accessory Connection Cable for KCH-20RM	$ 36.70	$ 29.36	20%
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	$ 34.75	$ 27.80	20%

Single Remote Control Configuration

With a Basic Control Head

With a Full Feature Control Head

Multi-Deck Options				
Dual Deck Basic Single CH	Basic Control HeadDC Cables (Qty 2),Remote Control Cable [1.6 feet],Control Head Interface Kit,Standard Microphone,Remote Control Cable [17 feet],Standard Mounting Brackets (Qty 2),Control Head Remote Kits (Qty 2)	$704.00	$ 563.20	20%
Dual Deck Basic Dual CH Single Speaker	Basic Control Heads (Qty 2),DC Cables (Qty 2),Remote Control Cable [1.6 feet],Control Head Interface Kits (Qty 2,)Standard Microphones (Qty 2,)Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 2),Control Head Remote Kits (Qty 2)	$1,165.50	$ 932.40	20%
Dual Deck Featured Dual CH Single Speaker	Full Feature Control Heads (Qty 2),DC Cables (Qty 2),Remote Control Cable [1.6 feet],Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 2),Control Head Remote Kits (Qty 2),External Accessory Cables (Qty 2),External Speakers (Qty 2)	$1,883.40	$ 1,506.72	20%
Dual Deck Basic Dual CH Dual Speaker	Basic Control Heads (Qty 2),DC Cables (Qty 2),Remote Control Cable [1.6 feet],Control Head Interface Kits (Qty 2),Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 2),Control Head Remote Kits (Qty 2),HA/PA Relays (Qty 2),External Speakers (Qty 2)	$1,414.00	$ 1,131.20	20%

Dual Deck Featured Dual CH Dual Speaker	Full Feature Control Heads (Qty 2),DC Cables (Qty 2),Remote Control Cable [1.6 feet],Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 2),Control Head Remote Kits (Qty 2),HA/PA Relays (Qty 2),External Speakers (Qty 2)	$1,936.00	$ 1,548.80	20%
Triple Deck Basic Single CH Single Speaker	Basic Control Head,DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Control Head Interface Kit,Standard Microphone,Remote Control Cable [17 feet],Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3)	$847.75	$ 678.20	20%
Triple Deck Basic Single CH Triple Speaker	Basic Control Head,DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Control Head Interface Kit,Standard Microphone,Remote Control Cable [17 feet],Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),HA/PA Relays (Qty 3),External Speakers (Qty 3)	$1,220.50	$ 976.40	20%
Triple Deck Basic Dual CH Single Speaker	Basic Control Heads (Qty 2), DC Cables (Qty 3), Remote Control Cables [1.6 feet] (Qty 2), Control Head Interface Kits (Qty 2), Standard Microphones (Qty 2), Remote Control Cables [17 feet] (Qty 2), Standard Mounting Brackets (Qty 3), Control Head Remote Kits (Qty 3)	$1,309.25	$ 1,047.40	20%
Triple Deck Basic Dual CH Triple Speaker	Basic Control Heads (Qty 2),DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Control Head Interface Kits (Qty 2),Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),HA/PA Relays (Qty 3),External Speakers (Qty 3)	$1,682.00	$ 1,345.60	20%
Triple Deck Featured Single CH Single Speaker	Full Feature Control Head,DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Standard Microphone,Remote Control Cable [17 feet],Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),External Accessory Cable,External Speaker	$1,206.70	$ 965.36	20%

Triple Deck Featured Single CH Triple Speaker	Full Feature Control Head,DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Standard Microphone,Remote Control Cable [17 feet],Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),HA/PA Relays (Qty 3),External Speakers (Qty 3)	$1,481.50	$	1,185.20	20%
Triple Deck Featured Dual CH Single Speaker	Full Feature Control Heads (Qty 2),DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),External Accessory Cables (Qty 2),External Speakers (Qty 2)	$2,027.15	$	1,621.72	20%
Triple Deck Featured Dual CH Triple Speaker	Full Feature Control Heads (Qty 2),DC Cables (Qty 3),Remote Control Cables [1.6 feet] (Qty 2),Standard Microphones (Qty 2),Remote Control Cables [17 feet] (Qty 2),Standard Mounting Brackets (Qty 3),Control Head Remote Kits (Qty 3),HA/PA Relays (Qty 3),External Speakers (Qty 3)	$2,204.00	$	1,763.20	20%

Mobile Installation Accessories		**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KAP-2	Horn Alert/P.A. Relay Option	$ 63.00	$	50.40	20%
KCT-23M	DC Cable (35-50W Dash mount; pos/neg. 10 ft. leads)	$ 31.50	$	25.20	20%
KCT-23M3	DC Cable (35-50W Remote mount; pos.23 ft.; neg. 3.3. ft. leads)	$ 34.75	$	27.80	20%
KCT-46	Ignition sense cable (plugs directly into mobile chassis ignition sense line)	$ 13.70	$	10.96	20%
KLF-2	Line Filter (suppresses alternator whine, 25dB, 25A max).	$ 42.00	$	33.60	20%
KMB-10	Key lock adapter	$ 26.30	$	21.04	20%
KMB-33M	Standard Mounting Bracket (same as supplied)	$ 14.00	$	11.20	20%
KPS-15	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak)	$ 173.00	$	138.40	20%
KRA-40GM	GPS Antenna	$ 42.00	$	33.60	20%
Microphones & Speakers		**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
KMC-35	MIL-SPEC Standard electret mobile microphone (8-pin mod. plug) - same as supplied	$ 52.50	$	42.00	20%
KMC-36	MIL-SPEC Standard electret mobile microphone with 12 keypad (8-pin mod. plug)	$ 94.50	$	75.60	20%

KMC-9C	Control Station Desktop Microphone (8-pin mod. plug) **Note:** NOT compatible in a TDMA operation	$	86.00	$ 68.80	20%
KES-3	External speaker (compact low profile; black case; 3.5 mm phono plug-in)	$	44.25	$ 35.40	20%
KES-5	External speaker, 40W max input **Note:** requires KAP-2 (PA/HA unit) installed	$	61.25	$ 49.00	20%
KCT-73MIC	External Microphone kit w/ 9.8 ft. cord for Safer Driving	$	27.00	$ 21.60	20%
KCT-74PTT	External PTT Switch kit w/ 9.8 ft cord for Safer Driving	$	23.00	$ 18.40	20%

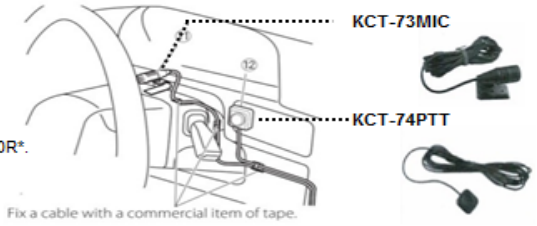
Hands-free operation

To promote driver safety and meet hands-free regulations in certain regions, TK--5x30 series mobile offers external microphone and PTT as options.

NOTE: Connecting to the radio via DB25 terminal on backside of RF Deck or via optional KCT-72 "Connection Cable" on backside of KCH-19M and KCH-20R*.

KCT-73MIC is not compatible with other NX/TK-mobile radios.

*Available in 2015 3Q



Encryption Modules		List Price	MS Two-Way Radio EPL 3744	Discount
KWD-AE30K	AES FIPS140-2 & DES Encryption Module (Multi-Key) Order a Labor Code **L-5003** if installation is required. KWD-AE30K requires: a Motorola KVL3000 Plus/4000 key loader device. KWD-AE30K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 850.00	$ 680.00	20%
KWD-AE31K	AES & DES Encryption Module (Multi-Key) Order a Labor Code **L-5004** if installation is required. **Note**: Requires KPG-AE1/DE1 software key loader or Motorola KVL3000 Plus/4000 key loader device. KWD-AE31K is an U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1)	$ 550.00	$ 440.00	20%
KPG-AE1K	AES/DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-AE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D002A)	$ 525.00	$ 420.00	20%

KPG-DE1K	DES Encryption Software Key Loader for KWD-AE31K **Authentication by KPT-300LMC is required** **Note**: KPG-DE1 is a U.S. DOC/BIS Export Controlled Item (ECCN 5D992A.1)	$ 368.00	$ 294.40	20%

Service Related Accessories		List Price	MS Two-Way Radio EPL 3744	Discount
KPG-46XM	Full Speed USB Programming interface cable	$ 158.50	$ 126.80	20%
KPG-115	Key Loader Interface Cable for Motorola KVL-3000/3000 Plus	$ 262.50	$ 210.00	20%
KWD-ASK-AK	Access Key for KPG-D1NK P25 trunked programming **Notes:** Enables P25 Trunked system programming privileges in a KPG-D1NK. • For TK-5x30 series only • Must be activated by trunked system operator (SYSOP) with KWD-ASK-MK Master Key • Must have KPG-D1NK • Configurable expiration period of KWD-ASK-AK set by KWD-ASK-MK is available for 3 years for built in battery. USB Key must be replaced since the expiration set up dose not work after 3 years.	$ 208.00	$ 166.40	20%
KWD-ASK-MK	Master Key for activating KWD-ASK-AK Access Keys **- Restricted Purchase Requirements -** **Notes:** • For TK-5x30 series only. • Sold to trunked system operator (SYSOP) or SYSOP authorized entities only • Must have KPG-D1NK • SYSOP must provide 3-digit HEX HSID to Kenwood with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Purchase KWD-ASK-AK Access Keys if needed.	$ 500.00	$ 400.00	20%

Installation/Tuning Charges		List Price	MS Two-Way Radio EPL 3744	Discount
L-5006	TK-5730/5830 Programming (with basic TX/RX check)	$ 37.50	$ 30.00	20%
L-5007	Install KWD-AE30K in TK-5x30 series Mobile (Must purchase module separately)	$ 75.00	$ 60.00	20%
L-5008	Install KWD-AE31K in TK-5x30 series Mobile (Must purchase module separately)	$ 75.00	$ 60.00	20%

L-5005	KPG-D1NK System Key File (SKF) **Note**: Enables P25 Trunked system programming privileges in a KPG-D1NK. **- Restricted Purchase Requirements -** • Trunked system operator (SYSOP) must provide 3-digit HEX HSID to EF Johnson with P25 Trunking System Keys Request Form placed on Kenwood Tools. • Must have KPG-D1NK. • EF Johnson ships an encrypted *.SKF file via E-Mail to the address provided on the P25 Trunking System Keys Request Form placed on Kenwood Tools. • Non-SYSOP entities ordering L-5005 must provide verifiable written authorization from SYSOP to receive an *.SKF file. • 3-digit HEX HSID are securely encrypted & embedded in the *.SKF file.	$	132.00	$	105.60	20%
L-5015	Install KAP-2 (Default) HR1/Internal Sp./PA	$	25.00	$	20.00	20%
L-5016	Assemble TK-5x30 Mobile for Single Remote Head Control	$	42.00	$	33.60	20%
L-5020	KCT-71 Extended Control Head Cable (up to 50 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads.	$	190.00	$	152.00	20%
L-5021	KCT-71 Extended Control Head Cable (up to 100 ft. max.) **Note**: Please specify exact length at 1ft. increments when ordering. **Caution**: Extended control head cables exhibit a loss in speaker audio power to the control heads.	$	245.00	$	196.00	20%

-- IMPORTANT NOTES --

Encryption modules, key loaders and radios containing encryption are export controlled *by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export Licenses and/or compliances.*

The following information may be requested to be submitted at time of order (this information must meet internal approvals prior to shipment even if being returned later:

a) Initial Destination: *Initial delivery point if different from Ultimate Destination*
(customer distribution center, headquarters, dealership, manufacturer's representative)
** Business/Agency Name:*
** Address:*
** Contact Person Name:*
** Contact Phone:*
b) Ultimate Destination *: Final delivery point(s); deployment/distribution*
** Business/Agency Name:*
** Address:*
** Contact Person Name:*
** Contact Phone:*
c) Intended Use of Radios *: Law enforcement, security, operations, etc.*

KWD-AE20 AES FIPS140-2 SCM , NIST Validation & Customer Shipping
A secure delivery method direct to the end user customer is required by the NIST AES FIPS 140-2 validation rules. For U.S. Federal Government entities the SCM must ship from Kenwood USA Corporation directly to the end user customer by a trusted carrier (FEDEX, UPS or a designated Kenwood USA Corporation employee); shipping/handling by a dealer or other entity is not acceptable. This may or may not be required by local/state government agencies or business/industrial users. Please check with the end use customer about their AES encryption handling requirements before ordering. Kenwood will not be responsible for shipments of KWD-AE20K modules to erroneous destinations specified on an order.

EFJohnson

Accessories

	Mobile Control Station Audio Accessories	List Price	MS Two-Way Radio EPL 3744	Discount
589001202202	Desk Mic, 12-PIN Conn, Low Tier *Air* Viking Only	$ 125.00	$ 100.00	20%
589001202201	Desk Mic, 13-PIN Conn, Low Tier *Air*	$ 125.00	$ 100.00	20%
5890012023	Desk Mic, Hirosi Connector 12 PINN, PEIKER	$ 480.00	$ 384.00	20%
	Mobile Antenna	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
5010012001	Antenex, 136-512 MHz 3/4" Hole, N-Male	$ 55.00	$ 44.00	20%
5010012011	Antenna Kit, Mobile Magnetic Mount	$ 90.00	$ 72.00	20%
5010012020	Antenna Kit 760-840 MHz Lo-Profile Black BMLPV700	$ 85.00	$ 68.00	20%
5010012021	700/800 MHz Mobile Roof Mount Antenna Kit (3db)	$ 80.00	$ 64.00	20%
	Mobile Control Head Accessories	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
2505300012	Conversion Kit, Dash to Remote, Lightning	$ 535.00	$ 428.00	20%
2505300002	5300ES Rmt Control HD Kit, Single or Dual Control	$ 475.00	$ 380.00	20%
2505300003	Standard Remote Control HD Kit, Second Remote Cont. Head	$ 650.00	$ 520.00	20%
597535777501	Cable Assembly, Interface, 6ft Remote Control Head	$ 100.00	$ 80.00	20%
597535777502	Cable Assembly, Extension, 17ft Remote Control Head	$ 160.00	$ 128.00	20%
597535777503	Cable Assembly, Extension, 50ft Remote Control Head	$ 300.00	$ 240.00	20%
7215100010	5100 Series Front Housing Opening Tool	$ 125.00	$ 100.00	20%
	Mobile Control Head Audio Accessories	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
250074031001	Mobile Standard Microphone, 13 PIN Conn *Air*	$ 100.00	$ 80.00	20%

589001603503	Digital Keypad Microphone (13-PIN)	$ 290.00	$ 232.00	20%
589001603603	Dual Remote Noise Cancelling Digital Keypad Mic (13 PIN)	$ 290.00	$ 232.00	20%
589001656003	Dual Remote Noise Cancelling Microphone (13 PIN)	$ 175.00	$ 140.00	20%
250074031002	Mobile Standard Microphone, 12-PIN Conn *Air*	$ 100.00	$ 80.00	20%
250530013	Lightning Remote Control Head Kit, Second Remote Control Head	$ 1,320.00	$ 1,056.00	20%
589001603504	Lightning Digital Keyad Microphone (12-PIN)	$ 290.00	$ 232.00	20%
589001603604	Lightning Control Head Dual Remote Noise Cancellation Digital Keypad Mic (12-PIN)	$ 290.00	$ 232.00	20%
589001656004	Lightning Control Head Remote Noise Cancellation Speaker Mic	$ 175.00	$ 140.00	20%
2500151005	Mobile 5in Speaker 15W, Mono Plug	$ 80.00	$ 64.00	20%
2500151006	Mobile 5in Speaker 15W, Crimp Leads	$ 75.00	$ 60.00	20%
2505300300	5300ES PA/Siren Kit *Air*	$ 1,000.00	$ 800.00	20%
	Mobile Mounting Hardware	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
R597535773801	Cable, Single Remote, Serial, USB, PVP/UDDI, Standard Interface	$ 180.00	$ 144.00	20%
	Mobile Control Station Accessories	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
2505300214	Kit, ES Control Station Enclosure, 30AMP	$ 430.00	$ 344.00	20%
5010001300	Polyphaser	$ 105.00	$ 84.00	20%
5010001301	Mounting Hardware for BA1012 Antenna	$ 180.00	$ 144.00	20%
5010011013	VHF Control Station Antenna *Air*	$ 595.00	$ 476.00	20%
5010102001	UHF Control Station Antenna *Air*	$ 225.00	$ 180.00	20%
51530100006	N-Male Connector for 1/4 FSJI-50A Cable	$ 20.00	$ 16.00	20%
5855300100	Base Station Kit, IDA 431-BAK-EFJ-T	$ 1,950.00	$ 1,560.00	20%
5855300102	Programming Kit, IDA 431-RBC-003	$ 130.00	$ 104.00	20%
5855300106	Tone Remote, With Desk Microphone, IDA 431-24-66M	$ 1,120.00	$ 896.00	20%
5855300108	Tone Termination Panel, IDA 431-20-28B	$ 800.00	$ 640.00	20%

5855300110	PAE/NTCH Filter, T Remote Option, IDA 431-RBC-613	$ 110.00	$ 88.00	20%
5855300112	Interface Cable, Tone Term PDL, IDA 106-28EF J5300	$ 88.00	$ 70.40	20%
5855300114	Clock VU MTR Remote Option 610, IDA 431-RBC-611	$ 120.00	$ 96.00	20%
5855300116	4-Wire Remote Option 611, IDA 431-RBC-611	$ 60.00	$ 48.00	20%
5855300118	Supervisor/ Alt Mn, Remote Option 612, IDA 431-RBC-612	$ 60.00	$ 48.00	20%
5855300120	12V Battery Cable, Remote Option 614, IDA 431-RBC-614	$ 18.00	$ 14.40	20%
5855300122	2nd Line/Sum Audio, Remote Option 615, IDA 431-RBC-615	$ 200.00	$ 160.00	20%
5855300124	One Touch TX, Remote Option 616, IDA 431-RBC-616	$ 25.00	$ 20.00	20%
5855300126	99 Channel Remote Option 617, IDA 431-RBC-617	$ 600.00	$ 480.00	20%
5855300128	99 Channel DTMF, Remote Option 618, IDA 431-RBC-618	$ 1,000.00	$ 800.00	20%
5855300130	Alpha Numeric Display, Remote Option 620, IDA 431-RBC-620	$ 150.00	$ 120.00	20%
5855300132	8-Line Multiline Interface, IDA 20-88-M02	$ 1,450.00	$ 1,160.00	20%
5973005002	1/4" Superflex	$ 2.00	$ 1.60	20%
	Portable Spare Batteries/Chargers	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
5875100373	Battery, lithium ion, IP67, FM certified	$ 155.00	$ 124.00	20%
5875100374	Battery, lithium ion, immersion rated	$ 130.00	$ 104.00	20%
5630600135	Charger, vehicular, multi-chem, single bay	$ 395.00	$ 316.00	20%
5630600236	Charger, single bay, rapid rate	$ 125.00	$ 100.00	20%
5630600361	Charger, multi-bay, tri-chem	$ 650.00	$ 520.00	20%
2500600245	Bracket, charger kit, wall mount	$ 40.00	$ 32.00	20%
	Portable Carrying Accessories	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
5084600100	Shoulder strap, leather, heavy duty (adjustable)	$ 65.00	$ 52.00	20%
5084600609	Leather case, belt flap, mil strap, model 1 (does not include strap)	$ 65.00	$ 52.00	20%
5084600610	Leather case, D swivel belt loop, model 1 (can be used with model 2 &	$ 70.00	$ 56.00	20%
5084600611	Leather case, belt flap, model 3	$ 70.00	$ 56.00	20%
5084600612	Leather case, D swivel belt loop, model 3	$ 70.00	$ 56.00	20%

5084600655	Leather case, belt loop, mil strap, model 1 (does not include strap; can be used with model 2 & 3, front of radio not visible when in holster)	$	60.00	$ 48.00	20%
5084600652	Nylon case, D swivel belt loop, model 3	$	60.00	$ 48.00	20%
5855100128	Belt clip, 2 1/4" spring loaded	$	15.00	$ 12.00	20%
585510015101	Leather case, D swivel belt loop, 3"	$	40.00	$ 32.00	20%
	Portable Microphones & Audio Accessories	**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
5892006057	Earpiece, coil cord, no PTT, 3.5 mm, rt angle plug	$	70.00	$ 56.00	20%
5895100055	2-Wire palm mic kit w/earpiece (requires #5895100051 accessory adapter)	$	140.00	$ 112.00	20%
5895100056	3-Wire lapel mic kit (requires #5895100051 accessory adapter)	$	180.00	$ 144.00	20%
5895100051	Accessory adapter w/3.5 mm threaded jack	$	85.00	$ 68.00	20%
8360600050	Accessory adapter, bluetooth	$	230.00	$ 184.00	20%
8360600151	Lapel mic, bluetooth, PTT + earpiece	$	170.00	$ 136.00	20%
5890015059	Headset w/standard in-line PTT for accessory adapter (requires #5895100051 accessory adapter)	$	115.00	$ 92.00	20%
589360005218	Speaker mic, basic w/emergency button, 3.5 mm jack, 18"	$	150.00	$ 120.00	20%
589360005225	Speaker mic, basic w/emergency button, 3.5 mm jack, 25"	$	150.00	$ 120.00	20%
589360005230	Speaker mic, basic w/emergency button, 3.5 mm jack, 30"	$	150.00	$ 120.00	20%
589360005618	Speaker mic, public safety w/emergency button, 3.5 mm jack,	$	315.00	$ 252.00	20%
589360005625	Speaker mic, public safety w/emergency button, 3.5 mm jack,	$	315.00	$ 252.00	20%
589360005630	Speaker mic, public safety w/emergency button, 3.5 mm jack, 30"	$	315.00	$ 252.00	20%
5893600058	Speaker mic, GPS w/emergency button, 3.5 mm jack, hi/lo	$	510.00	$ 408.00	20%
	Portable Knob Kits	**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
2505100010	Knob Kit, Round Channel, Round and Flat Volume	$	12.00	$ 9.60	20%

2505100011	Knob Kit, Blade Channel, Round Volume	$	12.00	$ 9.60	20%
	Portable Antennas	**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
5010017101	VHF Antenna 136-151 MHz Helical (Yellow Core) - Viking and ES Models	$	30.00	$ 24.00	20%
5010017103	VHF Antenna 151-166 MHz Helical (Black Core) - Viking and ES Models	$	30.00	$ 24.00	20%
5010017105	VHF Antenna 166-174 MHz Helical (Blue Core) - Viking and ES Models	$	30.00	$ 24.00	20%
5010017107	5100 380-512 MHz Antenna 1/4 Wave Whip SMA - Viking and ES Models	$	30.00	$ 24.00	20%
5010017110	Wide Band VHF 136-174 MXz, MP Antenna - ES Only	$	45.00	$ 36.00	20%
5010105012	1/4 Wave 800MHz Whip Antenna - Both Viking and ES Models	$	30.00	$ 24.00	20%
5010105013	1/2 Wave 800 MHz Antenna - Both Viking and ES Models	$	30.00	$ 24.00	20%
5010105073	Portable Antenna 7/800 MHz, 1/2 Wave Whip (Green Core) Viking and ES Models	$	30.00	$ 24.00	20%
	Software Applications	**List Price**		**MS Two-Way Radio EPL 3744**	**Discount**
250060069911	Viking Tune, Portable & Mobile Kit (Viking series tune cable - #023-0600-971, Audio cable 2.5MM to BNC - 023-5100-950, RPI Programming Box - 023-5300-001, Mobile Programming cable - R597-5357-791, Viking Tune Software - 023-0603-204, SMA/BNC Adapter)	$	1,300.00	$ 1,040.00	20%
230603203	Viking Tune - Viking Series, CD Media	$	275.00	$ 220.00	20%
250060060012	Viking Tune, Mobile Kit (Audio cable 2.5MM to BNC - 023-5100-950, RPI Programming Box - 023-5300-001, Mobile Programming cable - R597-5357-791, Viking Tune Software - 023-0603-205)	$	600.00	$ 480.00	20%

250060075003	Viking Tune, Viking Series Radio Tune SW Kit (Viking series tune Cable - 023-0600-971, Audio cable 2.5MM to BNC - 023-5100-950, Viking Tune Software - 023-0603-204, SMA/BNC Adapter)	$ 900.00	$ 720.00	20%
23060120013	Armada, CD Media with Armada Viking programming software/OTAP/DRS/EliteBattery Software	$ 350.00	$ 280.00	20%
250060070015	Armada Kit, Viking Portable Series, USB Cable (includes Viking portable programming cable - 597-0600-970 & Armada programming software - 023-0601-20014)	$ 495.00	$ 396.00	20%
250060078814	Armada Kit, Viking Mobile Series, USB Cable (includes Viking mobile programming cable - R597-5357-791 & Armada programming software - 023-0601-20014)	$ 455.00	$ 364.00	20%
250060079914	Armada Kit, Viking Portable & Mobile, USB Cables	$ 620.00	$ 496.00	20%
Encryption Accessories		**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
2505000955	PDA, SMA PC Keyloader w/ Software Cables	$ 3,880.00	$ 3,104.00	20%
5855000938	3rd Party Keyloader Cable (13 pin)	$ 300.00	$ 240.00	20%
235000940	SMA Keyloader Cable Assembly, Portable	$ 275.00	$ 220.00	20%
5855000935	5100 Keyloader Cable, Modified MOT TDM9390D	$ 275.00	$ 220.00	20%
23500095002	SMA Keyloader Cable Assembly, Mobile, 12-Pinn Connection *Air*	$ 300.00	$ 240.00	20%
	Software Upgrades	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
299UPGR175	Radio Authentication P25 - Field Upgrade	$ 100.00	$ 80.00	20%
299UPGR200	Upgrade - P25 Phase 1 to Phase 2 (Viking only)	$ 400.00	$ 320.00	20%
299UPGR099	ARC 4 Software Encryption	$ 50.00	$ 40.00	20%
299UPGR100	DES/DES OFB Field Upgrade - Single Key	$ 600.00	$ 480.00	20%
299UPGR10001	DES/OFB Multi-Key Encryption	$ 550.00	$ 440.00	20%
299UPGR103	AES Field Upgrade - Single Key	$ 500.00	$ 400.00	20%
299UPGR10301	AES Multi Key Encryption	$ 600.00	$ 480.00	20%

299UPGR104	P25 PTAR (Conventional & Trunking) Field Upgrade	$ 800.00	$ 640.00	20%
299UPGR105	P25 Data Conventional Field Upgrade	$ 200.00	$ 160.00	20%
299UPGR106	P25 Data Trunking Field Upgrade	$ 250.00	$ 200.00	20%
299UPGR107	Zone Fail Site Lock Field Upgrade	$ 100.00	$ 80.00	20%
299UPGR114	MDS Upgrade	$ 100.00	$ 80.00	20%
299UPGR115	Software Upgrade, 48 to 256 Channels - 5100 ES Radios Only	$ 300.00	$ 240.00	20%
299UPGR116	Software Upgrade, 256 to 512 Channels - 5100 ES Radios Only	$ 200.00	$ 160.00	20%
299UPGR117	Software Upgrade, 512 to 864 Channels	$ 300.00	$ 240.00	20%
299UPGR118	Software Upgrade, OTAP (Over the Air Programming)	$ 250.00	$ 200.00	20%
299UPGR120	Rebanding Upgrade to SNSZ	$ 300.00	$ 240.00	20%
299UPGR124	Hardware System Key Only	$ 50.00	$ 40.00	20%
299UPGR125	16 Zone/54 Channel Matrix Option	$ 150.00	$ 120.00	20%
299UPGR131	OTIP (Over the Internet Programming)	$ 200.00	$ 160.00	20%
299UPGR132	Third Party Interface Enabled	$ 200.00	$ 160.00	20%
299UPGR101	SN or SZ to P25 Trunking Field Upgrade	$ 475.00	$ 380.00	20%
299UPGR108	Conventional Analog to Smartnet Field Upgrade	$ 200.00	$ 160.00	20%
299UPGR109	Smartnet to Smartzone Field Upgrade	$ 400.00	$ 320.00	20%
299UPGR110	Conventional Analog to P25 CAI (Common Air Interface)	$ 500.00	$ 400.00	20%
299UPGR111	Conventional Analog to P25 Trunking Field Upgrade (includes SNSZ)	$ 725.00	$ 580.00	20%
299UPGR112	Conventional Analog to P25 Trunking only Field Upgrade	$ 425.00	$ 340.00	20%
299UPGR113	Multi-Net Analog to P25 Trunking Field Upgrade	$ 1,000.00	$ 800.00	20%
299UPGR128	FireSafe Command	$ 400.00	$ 320.00	20%
299UPGR129	FireSafe First Responder	$ 300.00	$ 240.00	20%

	Factory Services	List Price	MS Two-Way Radio EPL 3744	Discount
299PRGM001	Radio Profile Creation for Programming	$ 150.00	$ 120.00	20%
299PRGM002	Factory Programming	$ 75.00	$ 60.00	20%

	Warranty	List Price	MS Two-Way Radio EPL 3744	Discount
2990045013	2 Year Extended Warranty *(Portable/Mobile - ES Radios Only)*	$ 95.00	$ 95.00	N/A

2990045017	1 Year Extended Warranty *(Portable/Mobile - ES Radios Only)*	$	45.00	$ 45.00	N/A
2990045025	1 Year Extension Warranty *(ES Radios Only)* ; maximum 5 years warranty total; available if radio is less than 4 years old	$	250.00	$ 250.00	N/A
2990045029	3 Year Extended Warranty *(Portable/Mobile)* - ES Radios Only	$	150.00	$ 150.00	N/A
2990045041	4 Year Extended Warranty *(Portable/Mobile)* - ES Radios Only	$	250.00	$ 250.00	N/A
2990600013	2 Year Extended Warranty *(Portable/Mobile)* - Viking and TK Subscribers	$	95.00	$ 95.00	N/A
29906000017	1 Year Extended Warranty *(Portable/Mobile)* Viking and TK Subscribers	$	45.00	$ 45.00	N/A
2990600079	Warranty One Year Extension - *(Viking)* maximum 5 years warranty total; available if radio is less than 4 years old	$	250.00	$ 250.00	N/A

	Software Subscriptions	**List Price**	**MS Two-Way Radio EPL 3744**	**Discount**
2990045038	PC Configure Software Supscription - 5 years	$ 500.00	$ 400.00	20%
2990045094	Armada Software Subscription - 5 Years	$ 500.00	$ 400.00	20%