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Staley Communication

me. WV 26003

2 22nd Street

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation 7010C006

**ADDRESS CORRESPONDENCE TO ATTENTION OF: MICHAEL AUSTIN 304-558-2402

DIVISION OF HIGHWAYS **EQUIPMENT DIVISION** ROUTE 33 **BRUSHY FORK ROAD** BUCKHANNON, WV 26201

304-472-1750

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.

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- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entitles.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

7010C006

RFO NUMBER

PAGE 2

ADDRESS CORRESPONDENCE TO ATTENTION OF STATEMENT OF STATE

304-558-2402

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DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 304-472

304-472-1750

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHTTERMS 01/12/2010 BID OPENING DATE: 01/27/2010 BID OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN. OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANS-PORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.) QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY SEE REVERSE SIDE FOR TERMS AND CONDITIONS: TELEPHONE DATE 800,999.3723 34-0905433 Sales ADDRESS CHANGES TO BE NOTED ABOVE



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Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for REQNUMBER 7010 C006

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation 70100006

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SPECIFICATIONS FOR HANDHELD 2-WAY RADIOS

MIL-STD 810 C/D/E

BUILT TO MEET OR EXCEED THE REQUIREMENTS OF THE U.S. MIL-STD 810 STANDARDS.

16 CHANNELS MINIMUM ✓

CTCSS/DCS ENCODE + DECODE ✓

TX & RX BATTERY SAVER CIRCUIT

PC PROGRAMMING ✓

RADIO TO RADIO CLONE FEATURE ~

MINIMUM GENERAL SPECIFICATIONS

FEQUENCY RANGE

134 – 174 MHz (A) *

136 174

NUMBER OF CHANNELS

16 CHANNELS 🗸

CHANNEL SPACING

12.5/20/25 kHz /

PLL STEPS

2.5/6.25 kHz * 5.0 KHZ

BATTERY CAPACITY (

w/FNB-V104LI

2000 MaH * w/ option QAO 1113

OPERATING TEMPERATURE RANGE

-22 degree F to +140 degree F (-30 degree C to +60 degree C)

FREQUENCY STABILITY

±2.5 ppm ✓

MINIMUM RECEIVER SPECIFICATIONS

Measurements made per EIA Standard TIA/EIA-603

SENSITIVITY

EIA 12 dB SINAD

.25 uV

ADJACENT CHANNEL SELECTIVITY

65 dB (25 kHz)/60 dB (12.5 kHz)

INTERMODULATION

65 dB 🗸

SPURIOUS AND IMAGE REJECTION

65 dB 🖊

AUDIO OUTPUT

500 Mw @ 4 Ohms, 5% THD

MINIMUM TRANSMITTER SPECIFICATIONS

Measurements made per EIA standard TIA/EIA-603

POWER OUTPUT

5/1 w

MODULATION

160K0F3E, 11K0F3E 🗸

CONDUCTED SPURIOUS EMISSIONS

65 Db Below Carrier

FM HUM & NOISE

45 Db (25kHz) 40 dB (12.5 kHz)

AUDIO DISTORTION

<3% @ 1KhZ * <5%

COST - Handheld 2-way Radios

Vertex VX-231V without battery

\$ 229.00 ea. * motorola CP 185 with bothy

Drop in rapid chargers Vertex Vac 300B

45.00 ea. ** Mutorola CP185 PLMN5398

Battery Vertex V104LI

53.00 ea. ** Moderal a bellery PMMN4050A

* Price includes upgraded battery PMMAN 4080 A

** Motorcla CP185 comes standard with rapid rate charger.

Price reflects rapid charger cost individually.

*** Price reflects cost for individual batteries.

ORDERING INFORMATION

Orders from the WVDOH, Equipment Division may be placed by telephone and/or facsimile.

DELIVERY REGULATIONS

Vendor must guarantee that he will maintain in his warehouse adequate stock to supply the needs of the WV Division of Highways at all times. ORDERS MUST NOT BE HELD BY THE VENDOR UNTIL A MAXIMUM ORDER POINT HAS BEEN REACHED. ORDERS SHOULD BE SHIIPED IN A MAXIMUM OF THREE (3) WORKING DAYS OR THE WV DIVISION OF HIGHWAYS COMMUNICATIONS SUPERVISOR MAY GO OFF CONTRACT TO PURCHASE THE PARTS ON THE OPEN MARKET AFTER 5 DAYS WITH THE APPROVAL OF THE EQUIPMENT DIVISION DIRECTOR. ALL OPEN MARKET PURCHASES MUST BE MADE IN ACCORDANCE WITH THE DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION REGULATIONS.

A restocking charge can only be attached by the vendor with prior mutual consent.

All deliveries of merchandise and/or shipping documents at the Equipment Division must be properly marked on the outside of the carton showing the WV Division of Highways Purchase Order Number. Any material delivered without this information on the outside of cartons or documents will be returned to shipper at shipper expense.

METHOD OF PAYMENT

Purchasing Card Acceptance; The State of West Virginia currently utilizes a Visa Purchasing Card program which is issued through a local bank. The successful Vendor must accept the State of West Virginia Visa Purchasing Card for payment of all orders placed by the West Virginia Division of Highways, Equipment Division, Buckhannon, WV as a condition of award.

For a WVDOT Purchasing Card Purchase, vendor must provide a credit receipt, sales, receipt, or cash register receipt. Vendor is not to charge until items are shipped.

Send receipts to: WV Division of Highways - Equipment Division

P.O. Box 610

Buckhannon, WV 26201 Attention: Dirk Burnside

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2,	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.,	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
require against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder In an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency cted from any unpaid balance on the contract or purchase order.
authorize the requ	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and test the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.
and ac	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate as during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder	Stale Communication Signed: Will
Date:	1/19/10 Title: 1/25/dat

^{*}Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFO	No	7010C004 11
111 46		

STATE OF WEST VIRGINIA Purchasing Division

Purchasing Affidavit

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

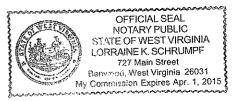
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

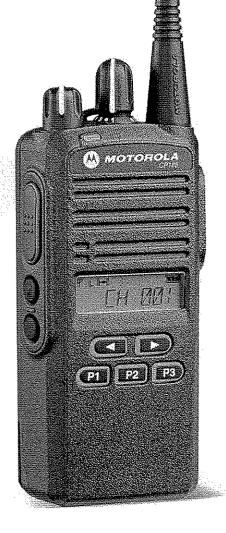
WITNESS THE FOLLOWING SIGNATURE CWMVD Authorized Signature: State of Taken, subscribed, and sworn to before me this 19 day of My Commission expires AFFIX SEAL HERE





Commercial Portable Two-Way Radio Motorola CP185™

Enhanced functionality, reliable communication—for a higher level of productivity



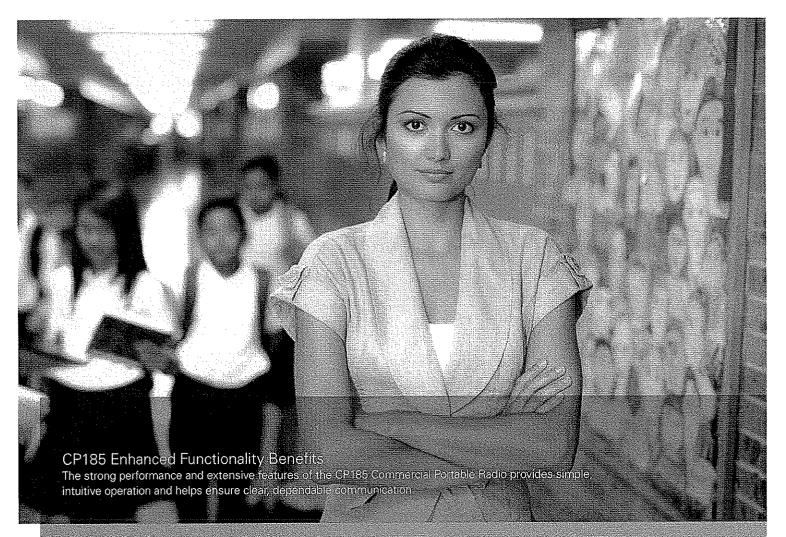




Reliable communication with enhanced functionality—making it easier to get the job done.

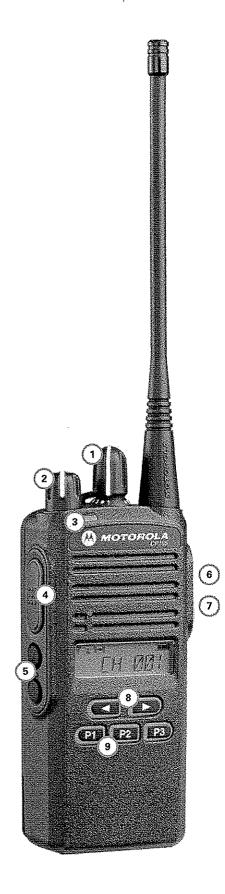
In today's business environment, easy, discreet and prompt communication with your workforce is vital to improving response time, empowering employees to accomplish more in less time and increasing customer satisfaction. Motorola's two-way radios provide a durable, high-quality voice communication solution that helps your business increase productivity and serve your customers in the best manner possible.

Ideal for educational institutions, retail and hospitality businesses, service and manufacturing industries and many other demanding, professional applications, the Motorola CP185 brings you a robust two-way radio solution. With its extensive feature set, ergonomic shape for comfortable use plus a durable, lightweight, compact design, you get just what it takes to enhance communication while increasing efficiency and productivity.



- Easy to handle lightweight, compact design
- Built-in simple voice solambling for increased privacy.
- VOX ready for hands-free communication users can focus on the reb at hand.
- 5 programmable buttons—chabling easy, one-touch to up to 10 user-selected features.
- Multi-channel capability—16 channels to support communication amongst all your employees.
- X-Pand Technology—providing crisp, clear and strong audio quality in virtually any noisy environment.
- Standard Lifer battery provides up to 11 hours
 (5/5/90 duty cycle) of battery life at high power
 to meet the demands of your employee's work
 shift. A high-capacity battery quiton is available for
 those with longer shift requirements or increased
 communication needs.

- Rapid-rate drop-in charging—charge radios in less than a hours with the included drop in charge;
- High power—5 west (VHF) / 4 wast (UHF) adjustable power levels help extend battery life
- Repeater dapability when increased coverage is required.
- Talkaround capability enabling communication even when a repeater is not being used
- Fighter specifications —70 dB adjecem channel selectivity provides enhanced rejection of interference from strong signals on adjacent channels so you can get your message through clearly.
- Meets Military 810 C, D, E and F standards to stand up to the most demanding canditions



CP185 Portable Radio

- Large, sturdy rotary channel selector makes changing channels quick and easy.
- (2) Large ON/OFF/Volume control makes adjusting volume quick and easy.
- (3) LED indicator indicates radio Transmit, Receive, Scan and Monitor status.
- (4) Large, textured PTT button—easy to find and use without looking.
- Side programmable buttons enable instant access to up to four user-determined functions.
- 6 Accessory connector provides convenient access for audio accessories.
- 7 Programming port supports programming the radio via Customer Programming Software application.
- 8 Front left/right buttons for navigating menu, sub-menu or parameter selections in front panel programming mode.
- (9) Front Programmable Buttons—

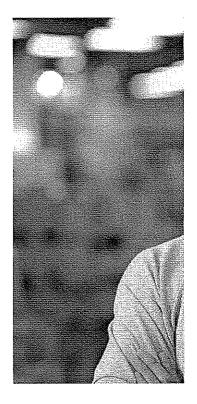
P1: S-Monitor, L-Sticky Monitor

P2: S-Scan, L-Nuisance Ch. Delete

P3: S-Power Level, L-Unassigned

Standard Package

- CP185 Portable Radio
- Stubby Antenna
- Lilon 1500 mAh Battery
- Rapid Charger and Power Supply
- 2" Belt Clip
- Quick Reference Guide
- 2-Year Limited Warranty



Programmable Features

The following functions can be assigned as short press threst and release) or long press threst and hold for 1 second in the aide and front programmable buttons:

and the second of the second o	
FEATURE:	FUNCTION:
Backlight	Toggles backlight display between ON and OFF.
Channel Alias	Toggies display between Channel Number and Channel Alias
Keypad Lock	Locks or unlocks all outtons except PTIL Side Programmable Buttons. Retary Chamel Knob and UN/OPE/Volume Finob
Moniter	Monitors the channel for any activity as king as the button is pleased.
Nuisance Channel Delete	Removes unwanted channel(s) temporarily from scan list during scart
TRIMPI	Enables or disables radio from requiring matching EPL/DPL to unsqueldi.
Provver Leviel	Selects recuired power level. High or Low
Reverse Bursi	Select the Reverse Burst Type, None, 180 or 240.
Cirannel Scan	Starts on stops dramel scap.
Smandling	Enables or disables the sqrambling feature for the selected channel
Scrambling Code Select	Selects entrer one of the two scrambling codes available
Squelch Level	Selects desired squalch level: Normal or Tight:
Streký Montjier	The racio monitors continually until you press this button again
Talkaround	Allows the user to roggle between Repeater and Talkaround mode operations
Volunië Set	Controls the audio and alert tone levels. The button emits a continuous tone while the button is pressed to indicate the current volvime level.



CP185™ Radio Accessories

The CP185 offers a full range of Motorola Original® audio, energy and carrying accessories to customize a radio solution specific to your needs. Headsets offer a comfortable, easy communication option when you need your hands free to focus on your operations. A high capacity battery is available to support long shifts common in the retail and hospitality businesses and soft leather carry cases are available as a lightweight and comfortable carrying solution.

This radio also supports Mag One™ audio accessories, which provide an affordable option for light-duty radio users.

Part#	Description			
i ai c				
Panada Speaker	S. Construction			
PMMN4028	Remote Speaker Microphone, Submersible (IPS7)			
PMMN4013	Remote Speaker Microphone with 3,5mm Audio Jack (IP54)			
PMMN4008	Remote Speaker Microphone (Mag Chel)			
Remote Soutier	Valuedone Accessores			
AARLN4885	Receive-Only Covered Earbud with Colled Cord			
PMLN4620	Receive-Only D-Shell Earpiece			
RLN4941	Receive-Only Ecopiece with Translucent Tube and Rubber Earlip			
WADN4190	Receive-Only Flexible Earniece			
Semidenta	:			
HMN9013	Lightweight Headsat, Over-the-head, Adjustable, Single-Mult with Swivel Boom Microphone and In-line PTT			
PMLN5003	Lightweight Temple Transducer with In-line PTT button and Microphone			
PMI.N4445	Ultra Lightweight Heedaet with Boom Microphone and In-line PTTNOX Switch (Mag One)			
Earsota				
PMLN5001	D-Style Earpieco with In-line Microphone and PTT			
PMLN4443	Ear Receiver with In-line Microphone and PTT/VOX Switch (Mag One)			
PMLN4442	Earbud with In-line Microphone and PTT/VOX Switch (Mag One)			
PMLN4444	Earent with Boom Microphone and In-line PTT/VOX switch (Mag Cine)			
Sorvedimos lots	and resonated Accys			
HMN9754	2-Wire Surveillance Kit, Beige (2-wire - rubber earth style)			
RLN6232	Low Noise Kit (Includes Rubber Tips with Acoustic Tube), black			
RLN6241	Low Noise Kit (Includes Rubber Tips with Acoustic Tube), beinge			
RLN6230	Extreme Noise Kit (Includes Feam Earplugs with Acoustic Tube), black			
RLN6231	Extrume Noise Kit (Includes Foam Earplugs with Acoustic Tulse), being			
RI_N6242	Quick Disconnect acoustic tube			

Part#	Description
Settle Consultation	30 (40)
PMNN4082	Bettery, NiMH 1300 mAh min.
PMNN4081	Bettery, Lilon 1900 mAh min.
PMNN4080	Battery, High Cupacity Lilon 2150 mAh min.
PMLN5398	Single Unit Rapid Chargor Kit, 110V (Includes PMLN5228 & EPNN9288)
PMLN5228	Single Unit Charger Base
EPNN9288	Switchmode Power Supply, 110V with US plug
HLN9844	Spring Action 2' Belt Clip
PMLN5334	Soft Leather Carry Case with D-Ring
Asphatine .	
PMAD4012	VHF Stubby, 136-155 MHz, 9 cm
HAD9742	VHF Stubby, 146-162 MHz, 9 cm
HAD9743	VHF Snibby, 162-174 MHz, 9 cm
PMAD4013	VHF Stubly, 155-174 MHz, 9 cm
PMA04014	VHF Whip, 136-155 (VHz, 14 cm)
PMAD4015	VHF Whip, 155-174 MHz, 14 cm
NAD6579	VHF Whip, 148-161 MHz, 19 cm
NAE6483	UHF Whip, 403-520 MHz, 16.6 cm
PMAE4003	UHF Stubby, 430-470 MHz, 9 cm
PMAE4006	UrF Stubby, 465-495 MHz, 9 cm
HA()9338	VHF Helitlex, 136-162 MHz, 16,5 cm
NAD6502	VHF Heldlex, 146-174 MHz, 15 cm







PMLN5334





HMN9013





General Specifications				
	VHF-136-174 MHz			
Жумбун үйдөгтин ин таман ин та	·	211-8-2-11-1-11-11-11-11-11-11-11-11-11-11-11		
Channel Capacity				
Channel Spacing	12.5 / 25 kH:	z switchable		
Model Numbers	AAHO3KEF8AA7AN	AAH03RDF8AA7AN		
FCC ID	AZ499FT3B22	AZ489FT4883		
IC ID	109U-89FT3822	109U-89FT4883		
FCC Emissions Designators	11 KQF3E	18K0F3E		
Dimensions (H x W x L)	4,72 x 2.28 x 1.46 in.	(120 x 58 x 37 mm)		
Weight (with Lilon)	12,34 ounc	ons (350 g)		
Average Battery Life @ 9-5-90% Duty Cycle ¹ Lilon battery NiMH battery High Capacity Lilon battery	up to 1 up to 1 up to 16	0 hours		

Transmitter		
	VHF 1000 1000 1000 1000 1000 1000 1000 10	
RF Output	2 to 5W	2 to 4W
Froquency Stability	±2,5	ppm
Spura and Harmonics	-63d9c (-26d8m @	5\V: -27dBm @ 4\V)
FM Hum and Noise Ratio ²	>4	0 dB
Modulation Limiting® (12.5/25 kHz)	\$2,5 kH	2 / ≤5 kHz
Autio Response	+11	o ·3 dB
Audia Distartion?	<	5%

Receiver	
	U D
Sonsitivity' (12 dB SINAD)	VHF: 119 dBm (25vV)
Adjacent Channel Selectivity' (12.5/25 kHz)	-85 dB / -70 dB
Intermodulation ² (12.5/25 kHz)	>70 dB
Spurious Rojaction?	>70 dB
Audio Distortion?	< 5%
Hurn and Noise Radio? (12.5/25 kHz)	> 40 dB
Conducted Emission	< -57 dBm
Audio Cutput & <5% Distortion	500 mW (et 24 ohm)

Military Standards		1.00 (d) (d) (d)						
Applicable MIL-STO	8:	810C 810C		OD 81		10E 810F		10F
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressire	500.1	l l	500,2	II	500,3	11	500.4	11
High Temperature	501,1	1,0	501,2	I/A1, II/A1	501,3	I/A1, II/A1	501,4	I/Hot, II/Hot
Low Temperature	502.1	1	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	1/C3, 11/C1
Temperature Shock	503.1	-	503.2	VA1C3	503.3	I/A1C3	503.4	ı
Solar Radiation	505.1	Į Į	505.2	i	505.3	I	505.4	ı
Rain	508,1	1,11	508.2	1,11	506.3	1, #	506.4	i, ni
Humidity	507.1	l II	507.2	II	507.3	li li	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	609.4	
8lowing Dust	510.1	I	510,2	l l	510.3	l l	510.4	1
Blowing Sand	-	-	510.2	1	510.3	11	510,4	- 11
Vibration	514.2	VIII/F, Curve-W	514.3	1/10, 11/3	514,4	1/10, 11/3	514,5	1/24
Shock	516.2	I, II	516.3	1, IV	516.4	I, IV	516.5	1, IV

Environmental Specifications	
Operating Temperature Range Water and Dust Intrusion	-30°C to +60°C (Radio) IP54, MIL5TD

^{15%} receive, 5% transmit, 90% standby
2All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.

<Dealer Logo>

<Dealer Name1>

<Dealer Address & Phone1>

<Dealer Website1> //
<Dealer Website2>

<Channel Identifier1>

<Dealer Name2>

<Dealer Address & Phone2>

<Channel Identifier2>

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office, All other product or service names are the property of their registered owners.

Motorola, Inc. 2008



CP185TM

Commercial Portable Two-Way Radio



Easy-to-handle, lightweight, compact design.

Built-in simple voice scrambling for increased privacy.

VOX ready for handsfree communication users can focus on the job at hand.

5 programmable buttons—enabling easy, one-touch access to up to 10 user-selected features.

Multi-channel capability—16 channels to support communication amongst all your employees. Lilon battery provides up to 11 hours (5/5/90 duty cycle) of battery life at high power to meet the demands of your employee's work shift. A high-capacity battery option is available for those with longer shift requirements or increased communication needs.

Rapid-rate drop-in charging—charge radios in less than 3 hours with the included drop-in charger.

High power—5 watt (VHF) / 4 watt (UHF) adjustable power levels help extend battery life.

Repeater capability when **increased coverage** is required.

Talkaround capability enabling communication even when a repeater is not being used.

Tighter specifications:
-70 dB adjacent channel selectivity provides enhanced rejection of interference from strong signals on adjacent channels so you can get your message through clearly.

The CP185 portables offer a wide range of Motorola Original® audio, energy and carrying accessories as well as Mag One™ audio accessories, which provide an affordable option for light duty radio users.

Enhanced functionality reliable communication

Easy, discreet and prompt communication with your worklored is vital to improving response time, strengthening employee efficiently and increasing culstomer satisfaction, lylotorola's two-way radios provide a durable, high-quality voice communication, solution that helps your business increase productivity and previole excellent culstomer service.

Ideal for educational institutions, retail and hospitals try businesses, service and manufacturing industries and other demanding applications. The Mororals CPTRS brings you a releast increway ratio solution. With its extensive feature set, ergonomic shape for comfortable use plus where privary in a durable. Ightweight, compact design, you can enhance communication while increasing afficiency and productivity.

General Specifications					
	VHF - 136-174 MHz	2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
Channel Capacity	1	6			
Channel Spacing	12,5 / 25 kH	z switchable			
Model Numbers	AAHO3KEFBAA7AN	AAH03RDF8AA7AN			
FCC ID	AZ469FT3822	AZ489FT4883			
IC ID	109U-89FT3822	109U-89FT4883			
FCC Emissions Designators	11K0F3E	16K0F3E			
Dimensions (H x W x L)	4.72 × 2.20 × 1.46 in. (120 × 58 × 37 mm)				
Weight (with Lilon)	12.34 ounces (350 g)				
Avorago Battery Life @ 5-5-90% Duty Cycle' Lifon battery NAMH battery High Capacity Lifon battery	up to 11 haurs up to 10 haurs up to 16 haurs				

Transmitter				
AF Output	2 to 5W	2 to 4W		
Frequency Stability?	±2.5	American transmitten and trans		
Spurs and Harmonics	-63dBc (-26dBm Ø 5W: -27dBm Ø 4W)			
FM Hum and Noise Ratio ²	> 40 dB			
Modulation Limiting? (12.5/25 kHz)	s2.6 kHz / ≤5 kHz			
Audio Response	+ 1 to -3 dB			
Audio Distortion	< 5%			

Receiver	
	Wife Control of the C
Sensitivity* (12 dB SINAD)	<-119 dBm (25vV)
Adjecent Chennel Selectivity* (12.5/25 kHz)	-65 dB /-70 dB
Intermodulation? (12.5/25 kH2)	>70 68
Spuńous Rejection?	>70 88
Audio Distortion?	< 28/8
Hum and Noise Radio* (12.5/25 kHz)	> 40 dB
Conducted Emission	< -67 дВт
Audio Output Ø <5% Distortion	500 mW (8t 24 ghm)

Military Standards								
Applicable Mit-STO	810C		81	OD CO	810E		8105	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	1	500.2	ll ll	500.3	- 11	500.4	- 11
High Tomporature	501,1	1, 11	501.2	I/A1, II/A1	501.3	VA1, IVA1	501.4	MHot, MHot
Low Yamperature	502.1	ı	502.2	1/C3, 11/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/A1C3	503.4	į į
Solar Radiation	505,1	11	505.2	ı	505.3	1	505.4	ŧ
Rajo	506.1	1, 11	506.2	l, II	506.3	1,11	506,4	1, 18
Hundry	507.1	11	507.2	i ii	507.3	H	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Slowing Dust	510.1	1	510.2	1	510.3	1	510.4	1
Blowing Sand]	-	510.2	l II	610.3	i I	\$10.4	į H
Vibration	514.2	VIII/E Curve-W	514.3	I/10, II/3	514.4	V10, IV3	514,5	V24
Shock	516.2	I, II	516.3	i, IV	516.4	ŧ, iv	516.5	I, IV

Environmental Specifications	
Operating Temperature Range	-30°C to +60°C (Radio)
Water and Dust Intrusion	IP54, MILSTD

'5% receive, 5% transmit, 90% standby
*All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Version 1 09/08