



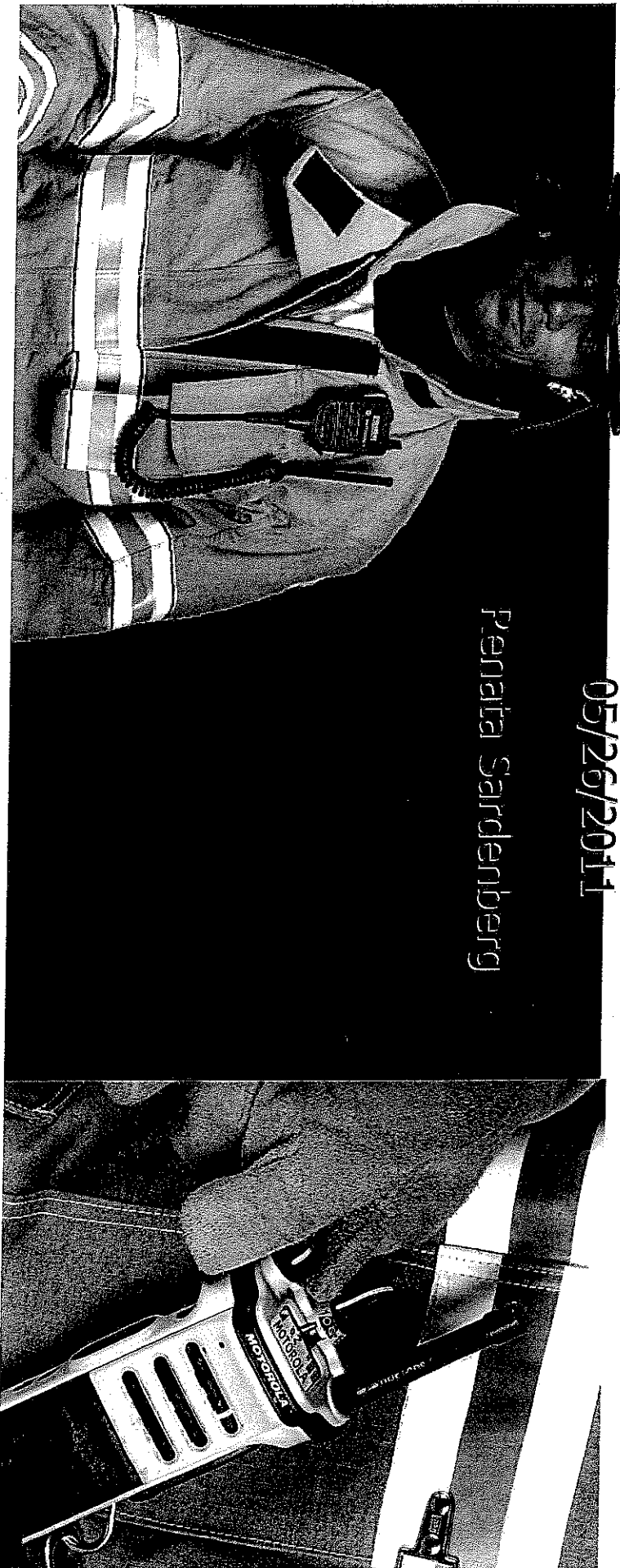
DuPage Fire Service

Motorola P25

Subscribers

05/26/2014

Penatla Sardenberg

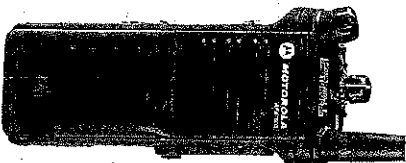
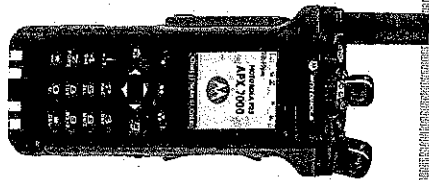


APX Platform Subscribers

Mission Critical Phase 2 TDMA Subscriber Portfolio

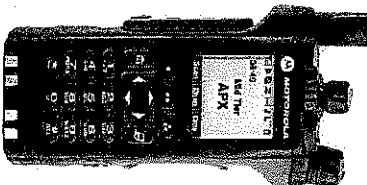
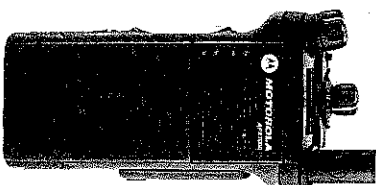


High-Tier Multiband



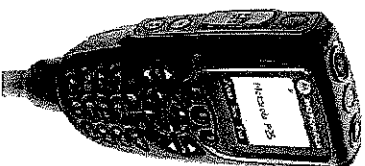
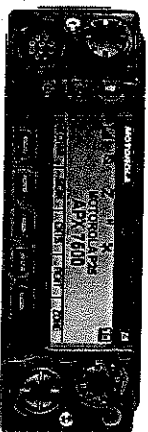
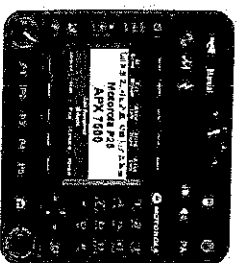
APX7000XE

High & Mid Tier Single Band



APX6000XE

APX 7000 Portables



APX 7500 Mobiles

APX 6000 Portables



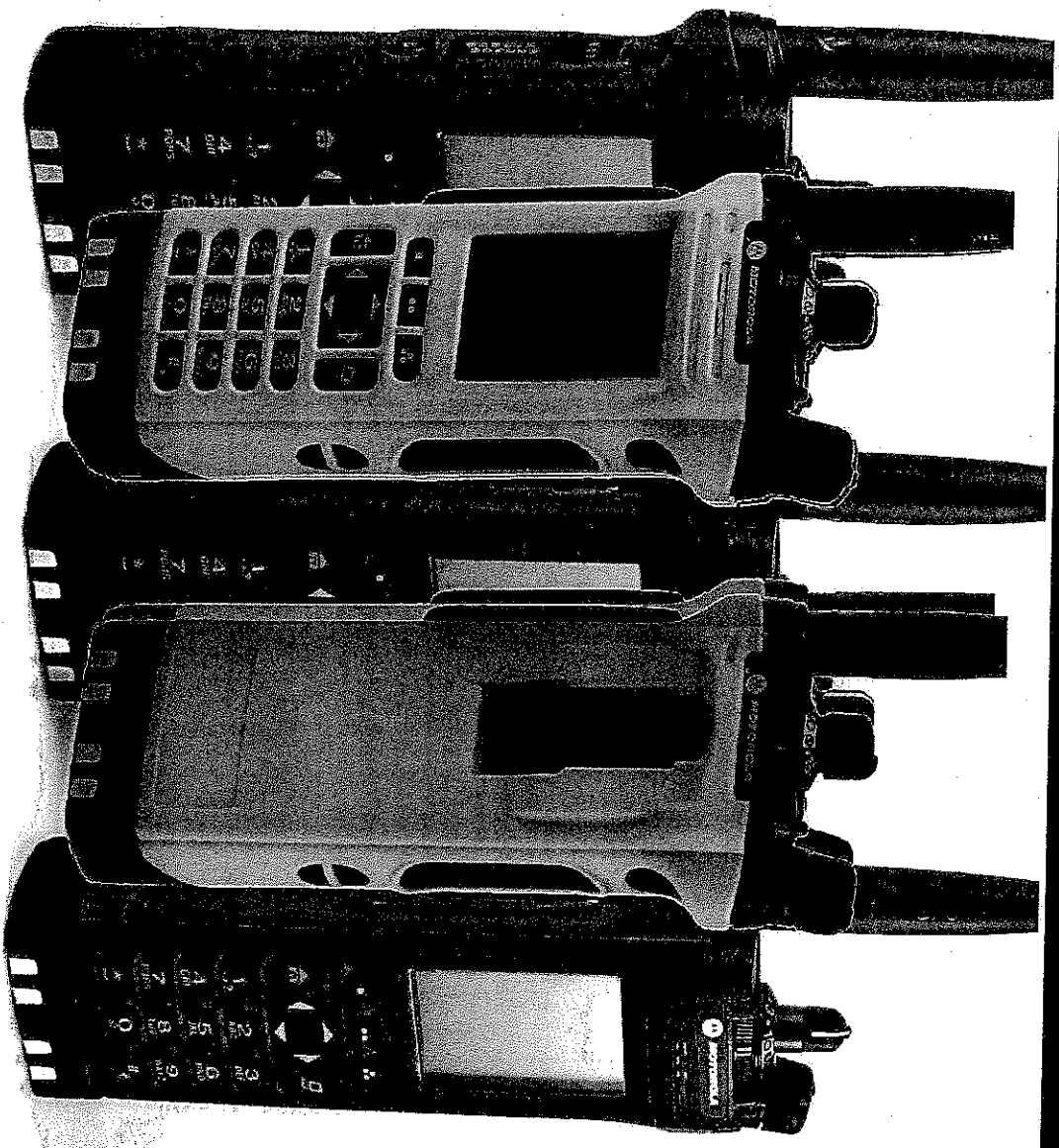
APX 6500 Mobiles

APX 7000 Series

Multi-band Portable Overview



High-Spec Multi-band Radio designed for Mission Critical Environments



Multiband Capable
700/800MHz (3W) VHF (6W) or UHF (5W)
New Color Options
System Support

Three different color schemes after
direct and indirect (KR25) marking
in DMVA operation with different colors:
Phase 1 FDMA & Phase 2 TDMA
Channel Pad/Block Capacity
1250

Easy Panel Enhancement
Multiple Algorithm (Up to 5)
Fast and easy to identify with DVP-XL
distinctive backside colors.
P25 OTAR

Rugged & Durable from Inside Out
How to Order: (E and F)
IP67 (1m/30min) - Standard
Stains can be ordered as an
aftermarket kit through AAD.
Integrated Voice & Data Features
GPS/Post/Pre/color GPS/Text Messaging
Mounting Options
Public Safety Yellow - Optional
Impact Green - Optional
NEW! Colored Sleeves - Aftermarket Kits

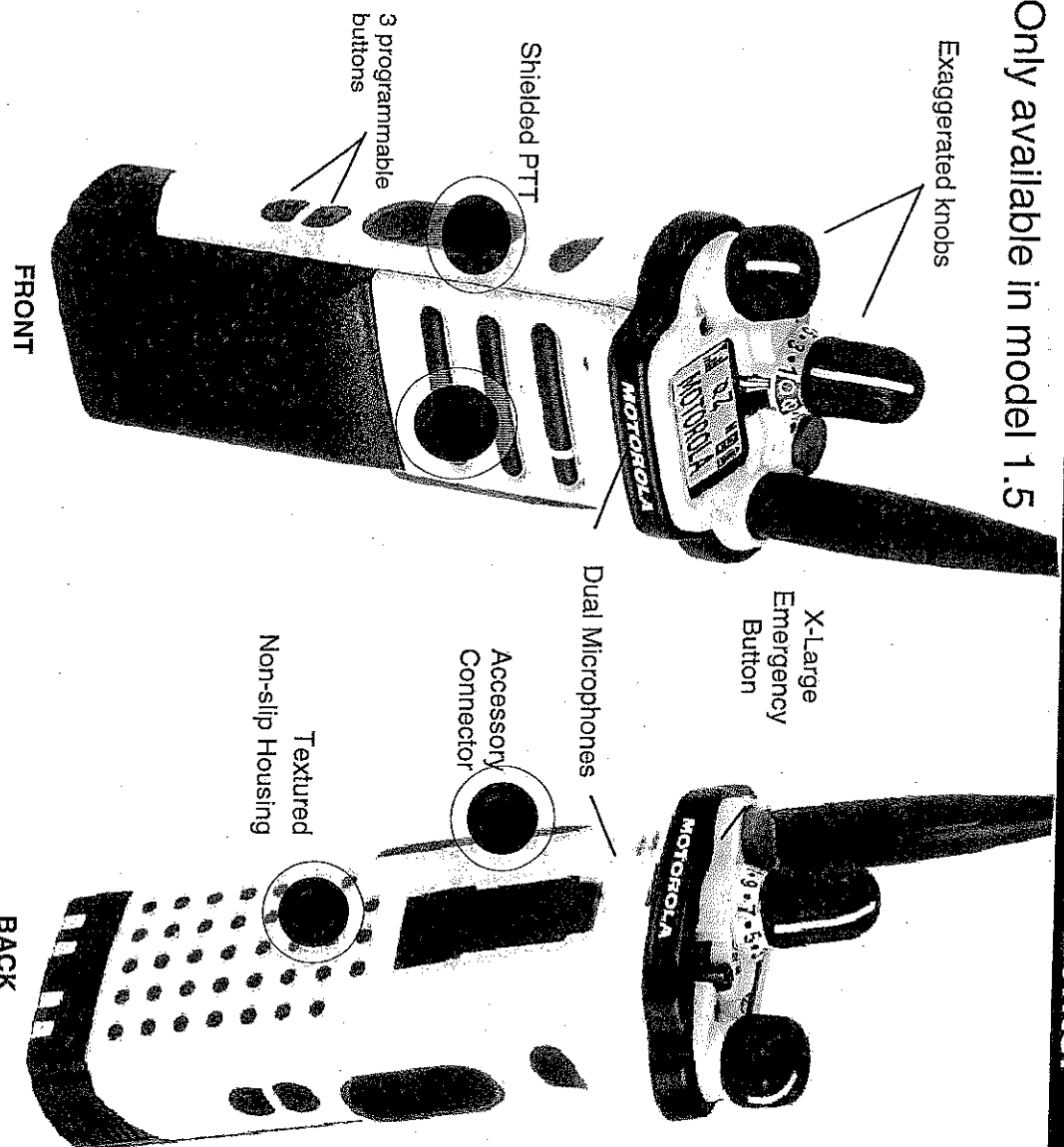
APX 7000XE Portable

Designed for the Fire Market



The first and only mission critical radio designed specifically for the fire market and personnel safety in extreme environments.

Only available in model 1.5



Multiband Capable

700/800MHz (3W), VHF (6W) or UHF (5W)

System Support

Analog and P25 Conventional
3600 and/or 9600 (P25) Trunking
TDMA Operation
Phase 1 FDMA & Phase 2 TDMA

Channel / Talkgroup Capacity

1200 Channel Support

Advanced Encryption Support

Multiple Algorithm (Up to 5)
AES / DES / DES-XL / DES-OFB / DVP-XL
Multi-Key
P25 OTAR

Rugged & Durable from Inside Out

MIL Specs (810C, D, E and F&G)
Delta T (2m/2hr) – Standard

Integrated Voice & Data Features

POP25/ Integrated GPS

Standard Option with APX7000 XE

DELTA – T Certified Radio & Battery
FM Certified radio and Battery (1988 STD)
XE Audio Profile - Default

APX 7000XE Portable

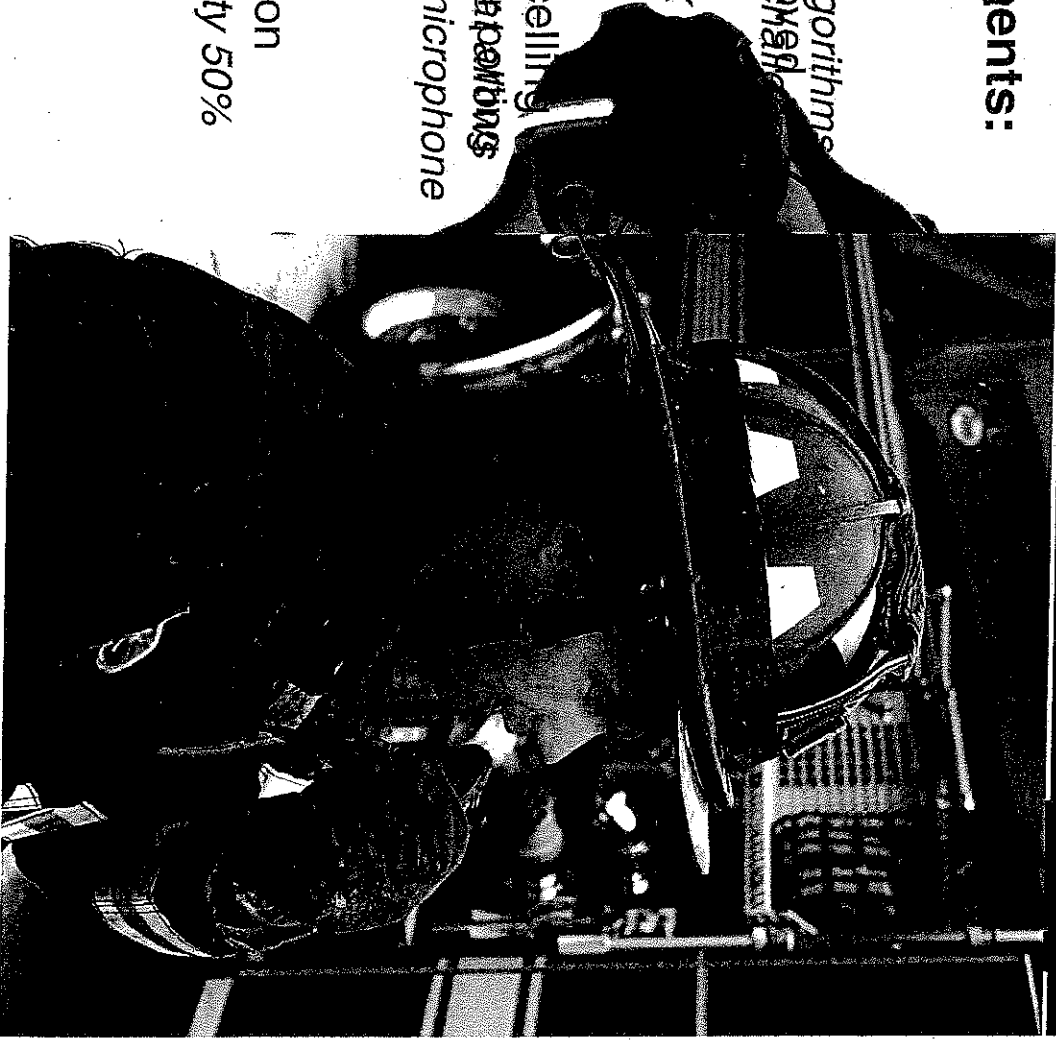
Designed for the Fire Market



The first and only mission critical radio designed specifically for the fire market and personnel safety in extreme environments.

Fire-centric Audio Enhancements:

- Protective Bumper Ring
- New Extreme Audio Profile
- Exaggerated Knobs and Controls
- A unique audio profile with noise reduction algorithms
- PTT/Side Buttons designed for maximum safety and ease of operation.
- (Default on APX 7000) Larger programmable side buttons
- Enhanced dual microphone noise-cancellation
- Report assigned tones and signals for standard and custom tones
- Clearer audio output regardless of what microphone the user is talking into
- Larger fonts
- Loudest Audio Output with least distortion
- Large 1 watt Rated Speaker that delivers clarity 50% louder than typical P25 Radios.

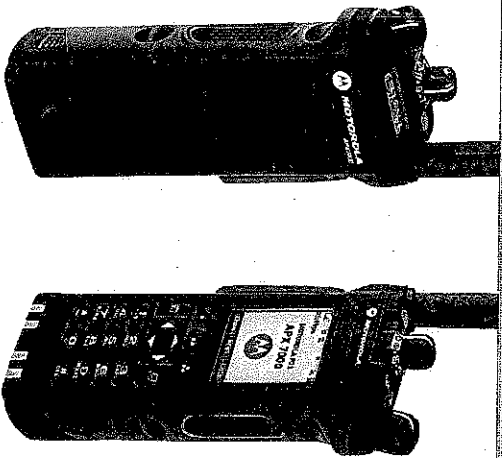


APX Enhanced Ergonomics



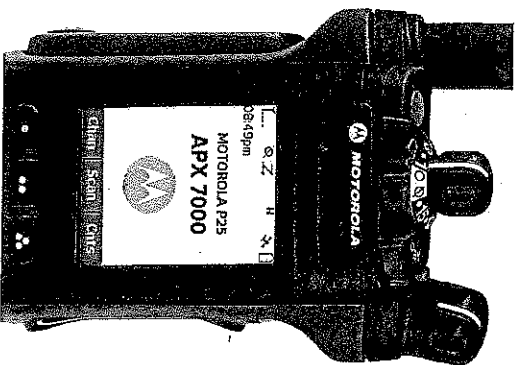
Designed for Improved operation and handling

Dual-Sided Design



Unique two-sided design allows for optimized voice and data functions

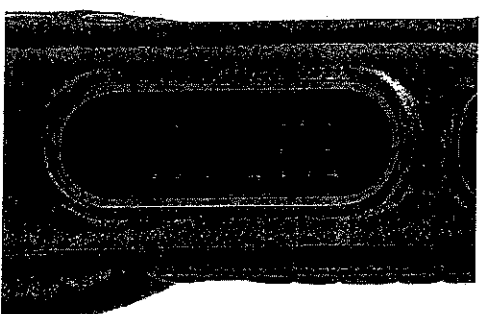
Exaggerated T-Grip



“T-Grip” design which gives a more secure grip of the radio while increasing the control top area

Allows for improved gloved operation & visibility

Universal PTT



PTT can now be actuated from any location on the PTT

Ridges were designed to guide the user to the PTT location

APX Intuitive User Interface



A User Interface Designed to Enhance and Improve Radio Operation for Public Safety.

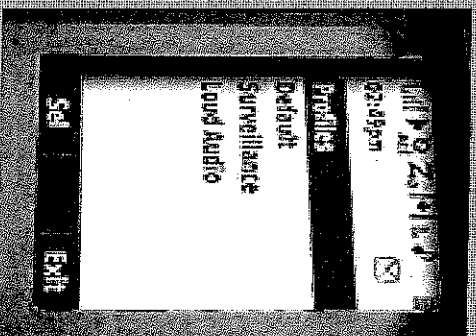
Voice Announcement



APX provides users with an easy to use announcement of the selected channel.

Time saving benefit during training and allows for safe and secure radio operation.

Radio Profiles



Radio can be configured with multiple operating modes.

User can select customize settings as needed.

Intelligent Lighting



Provides information at a glance in urgent situations.

Radio uses color to notify users of radio mode, emergency.

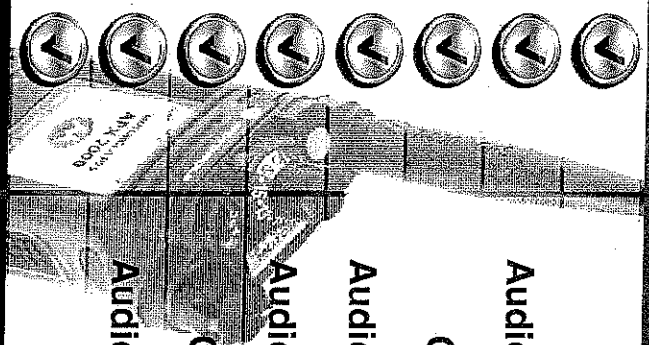
Red – OOR/FSof/Low Battery
Orange – Emergency
Green – Call RX

Mission Critical Performance

APX Electrical Specifications



Frequency Response	✓	Audio & Coverage
Audio Output	✓	Audio
Frequency Sensitivity	✓	Audio & Coverage
Sensitivity	✓	Coverage
Selectivity	✓	Audio & Coverage
Intermodulation	✓	Audio & Coverage
Spurious Responses	✓	Coverage
Harmonic Distortion	✓	Audio & Coverage
Amplitude Modulation	✓	Audio
Dynamic Range	✓	Coverage
Interference Rejection	✓	Audio & Coverage
Power Output	✓	Coverage
Power Consumption	✓	Coverage



APX™ 7000
 Model of Record Product Line



Electrical Specifications

Specification	APX 7000
Frequency Response	20 Hz to 20 kHz
Audio Output	100 mW
Frequency Sensitivity	100 dB
Sensitivity	100 dB
Selectivity	100 dB
Intermodulation	100 dB
Spurious Responses	100 dB
Harmonic Distortion	100 dB
Amplitude Modulation	100 dB
Dynamic Range	100 dB
Interference Rejection	100 dB
Power Output	100 mW
Power Consumption	100 mW

Performance Specifications

Specification	APX 7000
Frequency Response	20 Hz to 20 kHz
Audio Output	100 mW
Frequency Sensitivity	100 dB
Sensitivity	100 dB
Selectivity	100 dB
Intermodulation	100 dB
Spurious Responses	100 dB
Harmonic Distortion	100 dB
Amplitude Modulation	100 dB
Dynamic Range	100 dB
Interference Rejection	100 dB
Power Output	100 mW
Power Consumption	100 mW

© Marantz
 Model of Record Product Line

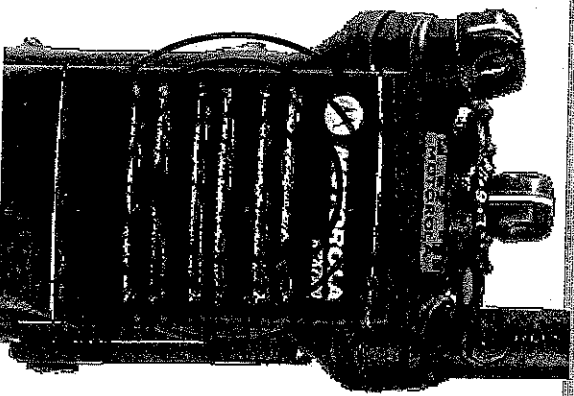
APX Audio Quality

Radio Design



No Compromises in Audio Quality Design

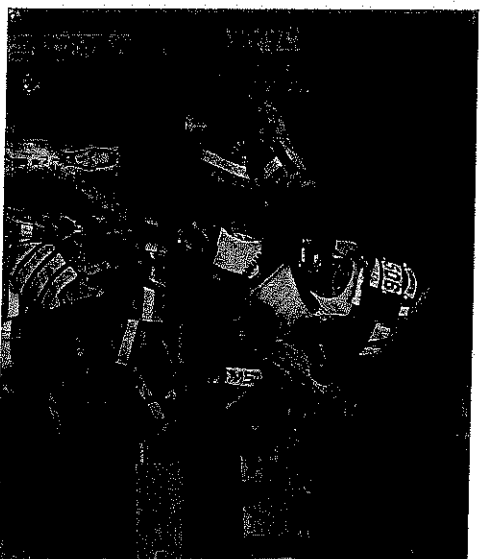
Loud & Clear Audio



APX 7000 – 1W rated audio speaker & Class D amplifier for increased loudness and clarity

- 50% Louder than XTS5000
- Dual Speakers

Adaptive Noise Cancelling



Dual-microphones adapt to the direction of background noise

Optimized for both digital and analog modes

Xtreme Audio Profile



Designed to perform in the most extreme of noise environments. Users can select the audio profile optimized for their surroundings.

APX 7000 vs. APX 7000 XE Comparison

	APX 7000	APX 7000 XE
Subscriber Feature		
Multi-Band Capable	✓	✓
Channel/Talkgroup Capacity	Models 3.5 - 1250 Model 1.5 - 1200	Models 3.5 - 1250 Model 1.5 - 1200
System Support		
P25 Phase I FDMA	✓	✓
P25 Phase II TDMA	✓	✓
Smartnet / Smartzone Operation	✓	✓
Dynamic Dual Mode (FDMA / TDMA)	✓	✓
3600/9600 Interoperability	✓	✓
Multiple Algorithm	✓	✓
ADP Encryption	✓	✓
Multi-Key	128 Keys	128 Keys
OTMR (Infrastructure Based)	✓	✓
Audio		
Large 1 Watt Rated Speaker	✓	✓
Dual Microphones	✓	✓
Firescene Audio Profile	Optional	✓

APX 7000 vs. APX 7000 XE Comparison

	APX 7000	APX 7000 XE
Integrated Voice and Data		
POP25	✓	✓
Internal GPS	✓	✓
Text Messaging	Model 3.5 only	N/A
User Interface		
Side Programmable Buttons	✓	✓
Soft Programmable Buttons	Model 3.5 only	N/A
Voice Announcement	✓	✓
Intelligent Lighting	✓	✓
Radio Profiles	✓	✓
Ergonomics		
Front Color Display	Model 3.5 only	N/A
Top Display	✓	✓
Tall Top Display with Enlarged Font	N/A	✓
Extra Large Knobs and Buttons	N/A	✓
Rubber Over Mold	N/A	✓
Water Porting Speaker Grill	N/A	✓
Protective Bumper Ring	N/A	✓
Others		
FMR Intrinsicly Safe Certification	Optional	✓
Yellow/Green Housing Option	✓	✓
Submersible 1m for 30mins (IP67)	✓	✓
Submersible 2 m for 2 hrs (Delta -T-)	Optional	✓
Internal Bluetooth	Optional	Optional

APX Advanced Audio Accessories

Audio Quality Beyond the Radio



Audio Quality Enhancements Beyond the Radio

Loud & Clear Audio:

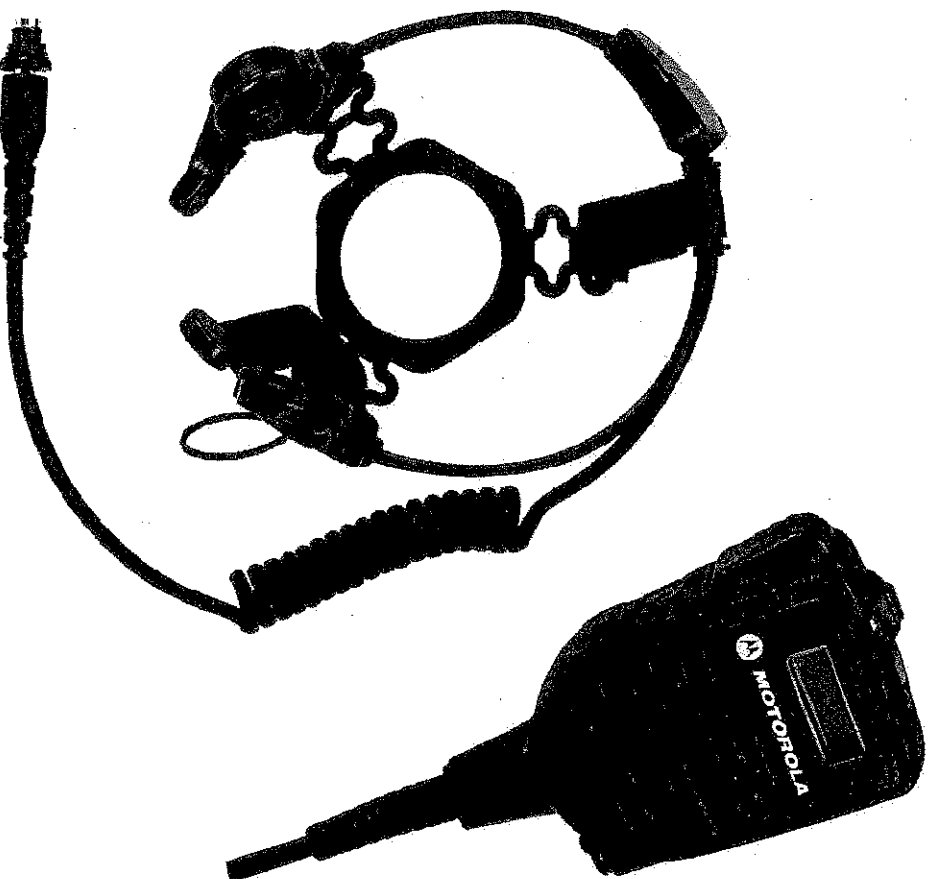
Remote speaker microphones designed with same 1 watt speaker that provides 50% louder audio ensuring users can be heard even in the loudest conditions

Windporting / Noise Cancelling:

Windporting & Noise cancelling technology helps blocks wind and other outside noises making it easier to communicate on-scene

IMPRES AUDIO:

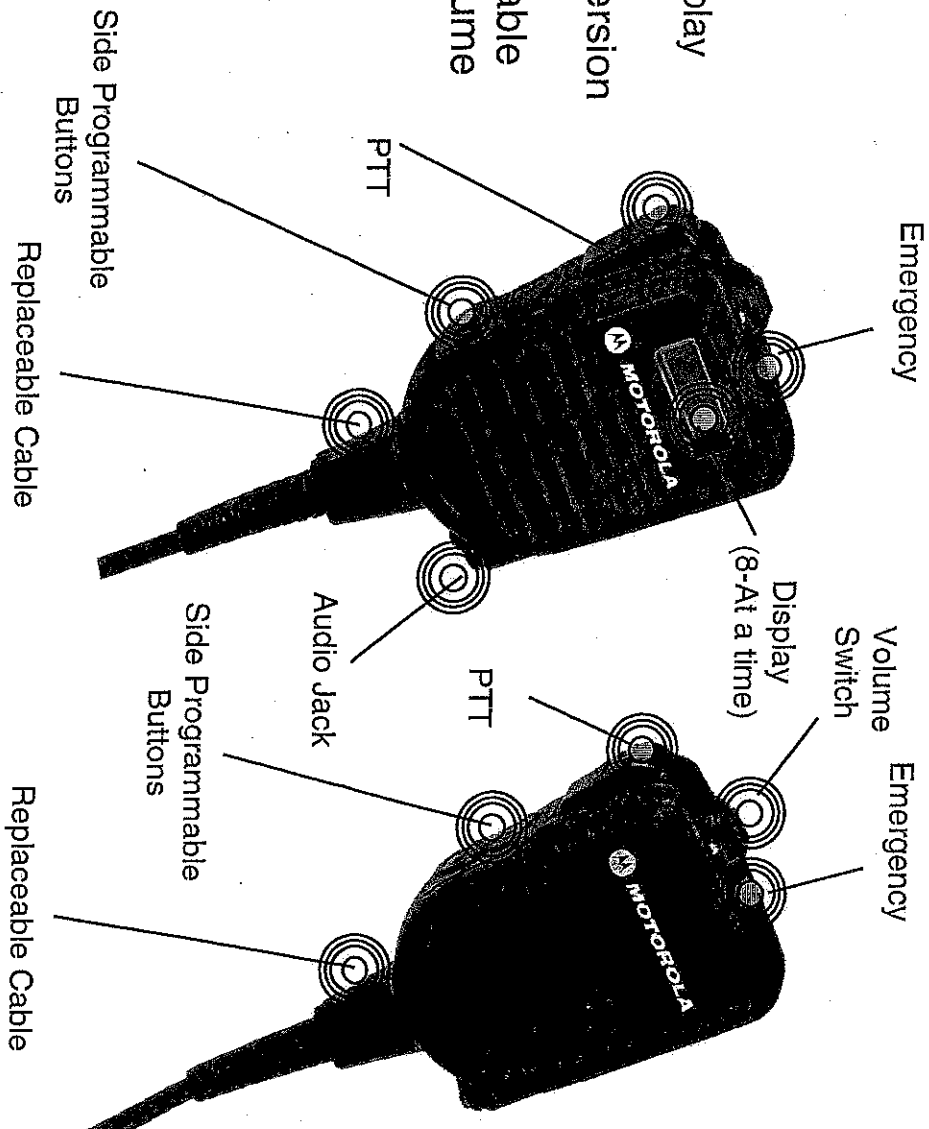
All accessories designed and optimized specifically for your APX Portable



APX DELTA T IMPPRES REMOTE SPEAKER MICROPHONES

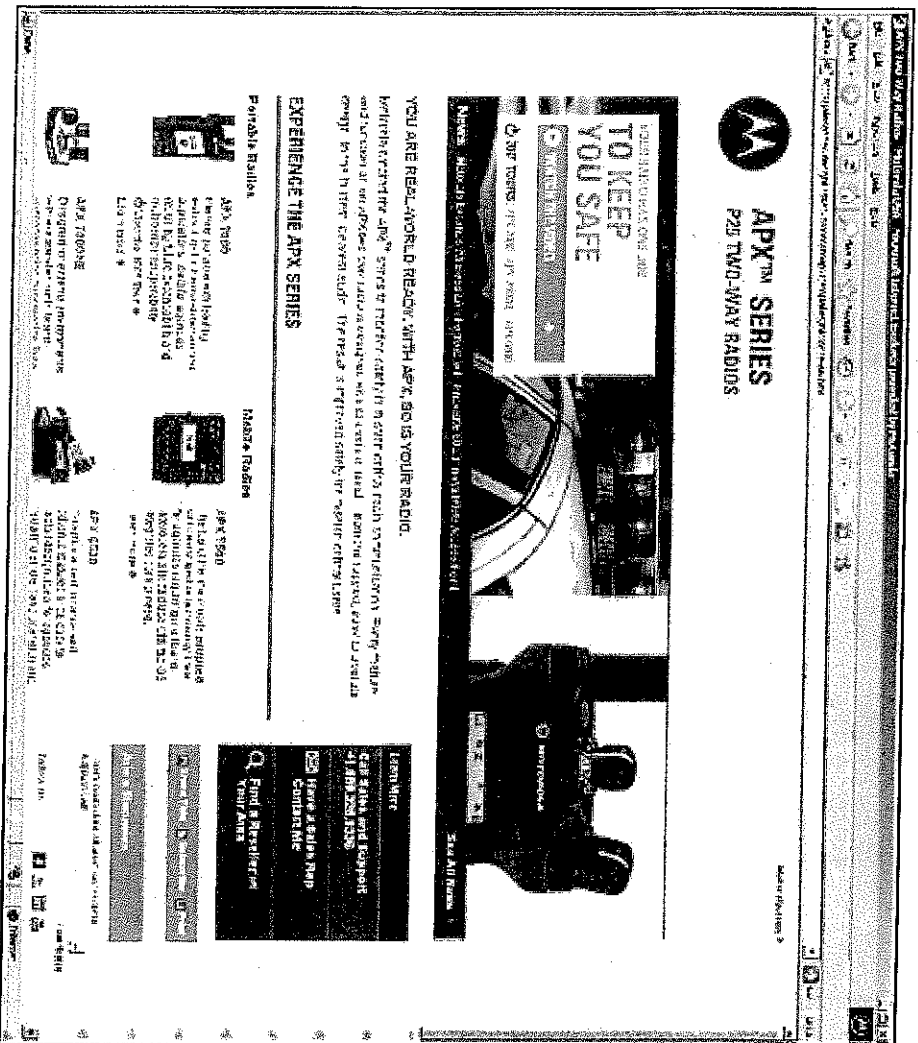


- 16 character scrolling display (8 characters at a time)
 - Display mirrors radio top display
 - Easy to read backlit and reversible display
- Meets rugged specifications for immersion
- Channel selector, orange programmable button, easily accessible variable volume control on top of microphone
- Rugged, submersible audio jack that provides receive/transmit/push-to-talk capability
- Additional models available
 - No channel knob
 - No display or channel knob

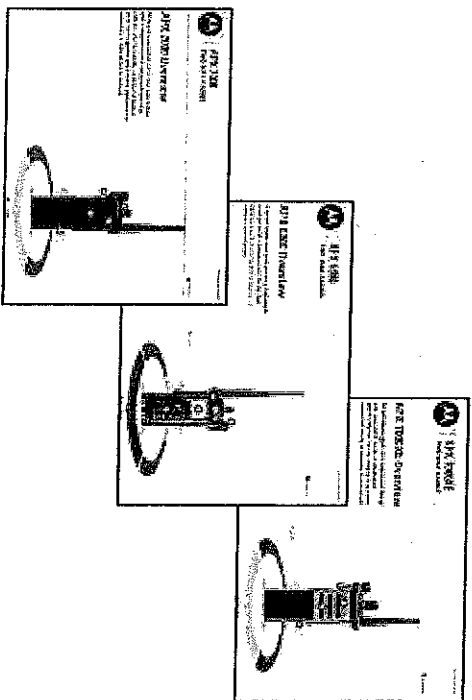


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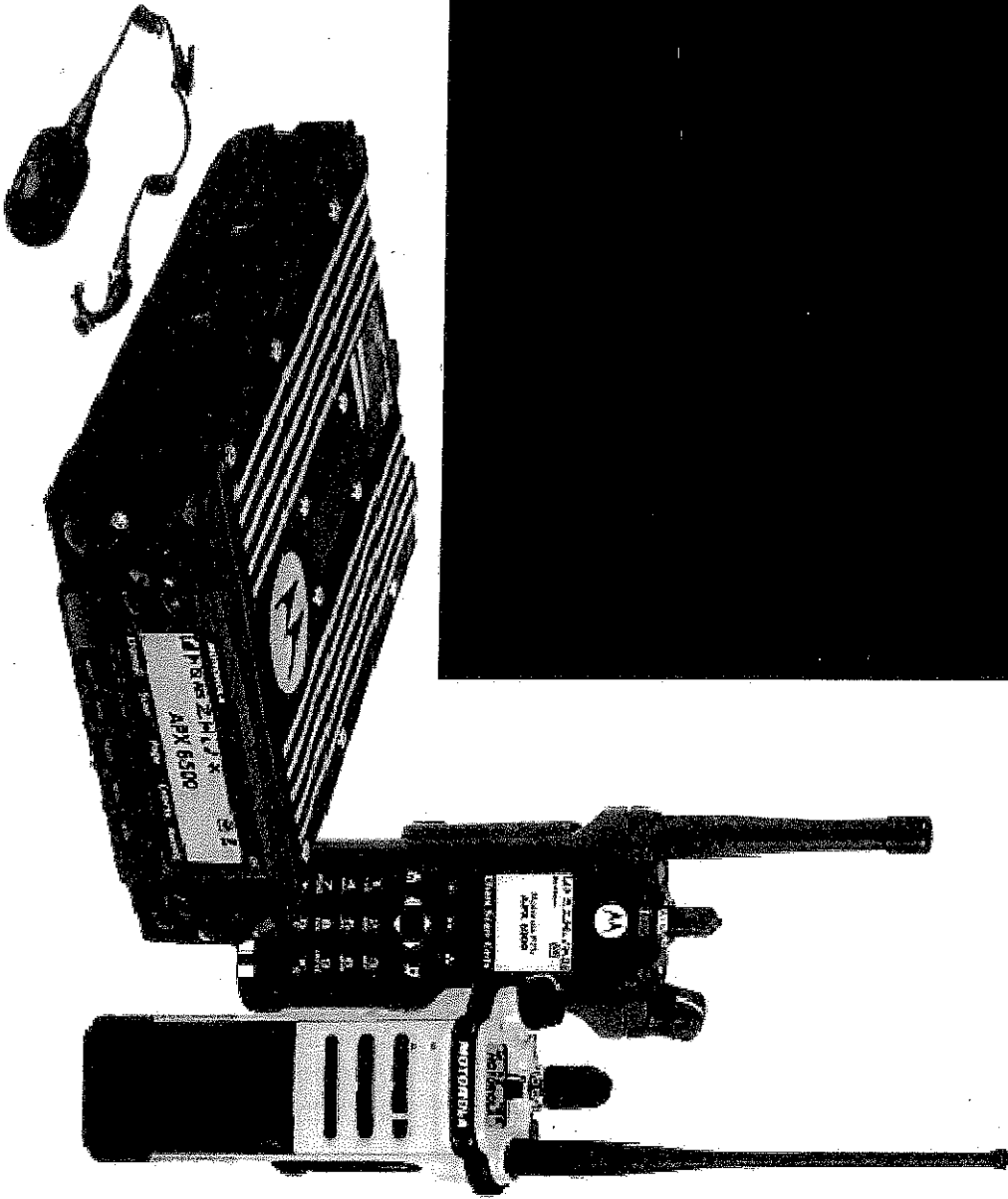
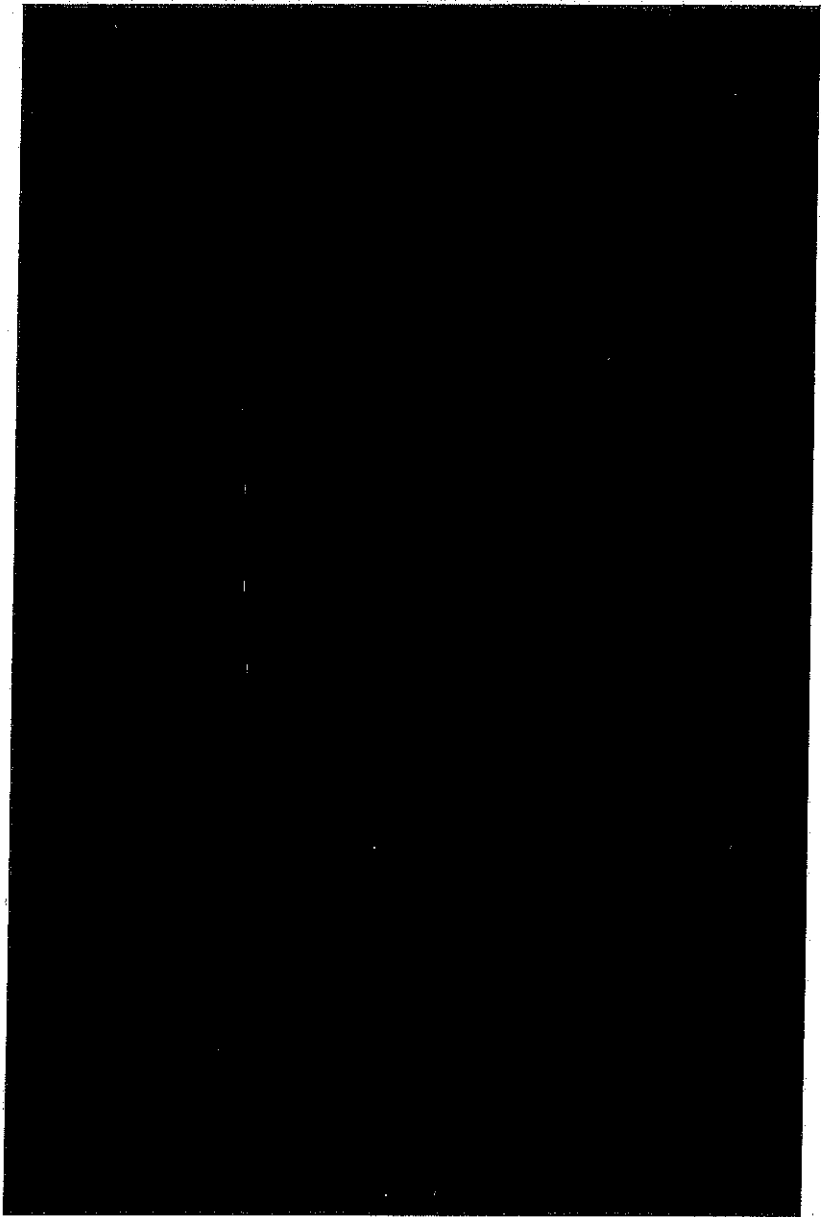
APX Website



Feature-rich APX pages on mot.com that include 360 product tours, key messaging, videos, and collateral to support sale efforts to target markets



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