

SVX

Video Remote Speaker Microphone

Voice and video, Combined without compromise

By converging our industry-leading APX NEXT and N70 radio line and our trusted body camera technology, we've transformed what it means to be on the front line. Now, your team can get the best of both worlds, by accessing mission-critical communications, evidential video capture from one device, without sacrificing ergonomics or usability.

But we didn't stop there. We know that, even though technology should be a force multiplier for modern law enforcement agencies, it often just serves to create more stress - whether it's an issue of equipment management, training or budget. The SVX solution goes beyond just converging hardware: it also revolutionizes the workflows around device deployment, usage and even evidence handling: so now, your team can get twice the results from half the resources.





The best of what we do

Wear how you want, where you want

Wireless connectivity and a ruggedized design give you complete flexibility, in movement and device mounting options alike.

APX, amplified and more intelligent

Equipped with our game-changing audio technology, the SVX catches every syllable - both from your push-to-talk communications, and your on-scene interactions - so you'll be heard by dispatchers, other units and even AI.

Capture with certainty, stream with confidence

Record high-quality evidential footage and audio for later investigations, and provide real-time situational awareness to supervisors via LTE streaming.

Fewer devices, fewer distractions

Use video and voice functionalities without losing your focus: the SVX's intuitive design, recording triggers and voice commands are all designed with ease of use in mind.

More evidence, less admin

Assemble a compelling case for court more quickly: manage radio traffic, radio metadata, evidential video and more in one place with the help of AI.

Easy to deploy, even easier to manage

With fewer devices to manage day-to-day, and robust support at every stage of your technology journey, your IT team can free up precious time and money for other projects.

Key specifications

GENERAL INFORMATION

Model number	VX650
Compatible radios	APX NEXT APX N70
Dimensions (VRSM only)	109 x 61 x 36 mm
Weight	240g
Color	Black
Power source	Removable battery
Audio accessory interface	3.5mm non-threaded
Clip	4-point retention (see mounting options)

MICROPHONE

Type	Advanced noise cancellation
Sensitivity	-41dBFS +/-1dB
Distortion (THD)	<5% wideband
Noise cancellation	Intelligent noise reduction
Windporting microphone	Yes
Adaptive audio engine	Enabled through radio (Rx Audio Leveling radio side feature)

SPEAKER

Diameter	36mm
Speech loudness @ 12in (300mm)	100 phon (+/- 2 phon)
Rated output level	1W

CONTROLS

Top	Power on/off/status Orange (emergency)
Side	Volume up/down PTT 2 programmable
Front	1 programmable (ViQi) Video recording

POWER

Battery type	Lithium ion Field-swappable Rechargeable
Charge time	<4 hours
Charging connection	USB-C Magnetic charging pads

ENVIRONMENTAL

Operating temperature	-20°C to +60°C (-4°F to +140°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
NOTE: Battery should be charged at temperatures between +32°F to +77°F (+0°C and +25°C) and stored between +68°F and +86°F (+20°C to +30°C)	
Mil specs	MIL-STD-810H
ESD	IEC / EN 61000-4-2
IP rating	IP68 IP6X (Dust tight) IPX8 (IPx8 fresh water submersion, 2m, 4 hrs)
Work-When-Wet	Yes



Key specifications (cont.)

VIDEO

Field of view	130° horizontal 73° vertical 149° diagonal
Resolution	1920x1080 (1080p) 1280x720 (720p) 864x480 (480p)
Frames per second	30, 15, 10 and 5 fps
Storage	128GB 28 hours of 1080p video 55 hours of 720p video 110 hours of 480p video
Data security	At rest: AES 256-bit (FIPS 140-2 Level 1) In transit: TLS
Pre-event buffer	None, 15s, 30s, 45s, 1m, 90 sec, 2m, 3m, 5m, 10m
Record-After-the-Fact	Recover critical evidence after the fact, even when a recording wasn't initiated
Video compression	H.264
Dewarping	Vertical dewarping (removes fisheye effect)
Low light performance	<0.1 Lux
Audio tracks	Evidentiary Noise reduced & LMR

COMPATIBLE RADIO FIRMWARE

APX NEXT Radios	R08.00.00 or later
APX N70 Radios	R05.00.00 or later

MANAGED SERVICES

3/5Y DMS Essential	24/7 technical support, hardware repair and software maintenance
3/5Y Essential Support, Advanced Replacement and Accidental Damage	Optional service upgrade

CONNECTIVITY

GPS	GPS, Glonass
Bluetooth	5.3 EDR/LE
Bluetooth security	BT High (NIST P-256 DH)
Pairing	NFC secure pairing
WiFi	802.11b/g/n/ac
Type approval	FCC/IC, EME



Mounting accessories



WGP02798

Magnetic Center
Shirt Mount



WGA00669

Tek-Lok Belt
Mount



WGA00668

Molle Locking
Mount



WGP02697

Shirt Clip



WGP03088

Heavy Jacket
Clip



WGP03085

Heavy Jacket
Magnetic Mount



PMLN8682A

Coiled Safety
Lanyard

Charging and audio accessories



PMPN5022

10 Slot Smart Dock
for charging/upload



PMPN5026

12 Slot Charge Dock
for battery charging



PMNN4893

Removable battery
with tether hook



PMLN8708

Receive-only earpiece
with 3.5mm jack



PMLN8709

2-wire earpiece with
mic and 3.5mm jack





Learn more at motorolasolutions.com/svx



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

Only available in the United States.

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2025 Motorola Solutions, Inc. All rights reserved. 05-2025 [AB05]