



# TP9155/60

SPECIFICATIONS



Models shown IS TP9155 and IS TP9160

## P25 TRUNKED AND CONVENTIONAL PORTABLE RADIOS

With recognized encryption testing, certified interoperability, digital audio clarity and superb build quality the TP9155/TP9160 are tough, dependable and sophisticated portable radios. The TP9155/TP9160 gives you the flexibility of working in digital, analog or auto-sensing dual mode.

### Secure, dependable and flexible

- FIPS 140-2 certified encryption
- Tested in DHS-approved P25 Compliance Assessment Program (P25 CAP) lab for interoperability and performance
- Radios can be used on analog, P25 conventional, trunked and simulcast networks
- Program 1,000 channels, 300 scan groups and 30 tactical zones
- Configurable emergency features - Man Down and Lone Worker as standard
- Lithium ion battery reduces weight on belt compared with the NiMH battery, while extending shift life
- Tested beyond MIL-STD 810C, D, E and F – Tait performs tougher drop tests, then performs ingress and other tests on the same radio
- Comprehensive scanning features including P25 talk-group
- Simplified System Key prevents ‘unauthorized’ radios from being added to the network without prior consent
- Angled, textured, shaped and colored controls for intuitive usability
- An extensive range of analog signaling features - MDC1200 encode/decode and Two Tone decode with the purchase of SFEs\*

\*Software Feature Enabler options available separately

### Encryption for secure communications

AES encryption certified by the US National Institute of Technology and Standards (NIST) or proven DES encryption can be incorporated into the TP9155/TP9160 for highly secure communications. These radios can be encrypted fast in-field with the Key Fill Device (KFD) or with Over-The-Air-Rekeying (OTAR) via the Key Management Facility (KMF)\*.

### Interoperability assured

The TP9155/TP9160 portable radios are tested on other vendors’ networks as part of the P25 Compliance Assessment Program (P25 CAP). This offers public safety and government agencies a multi-vendor environment which can save taxpayers’ money.

### Analog operation for phased transition

Protect your current analog investment and migrate to P25 at your own pace. Analog mode allows communication between various partner agencies.

### Configure to suit with SFEs

Software Feature Enablers (SFEs) allow a solution that is readily extended as needs change, removing the risk of hardware upgrades and factory returns. Trunking, P25 CAI, encryption, Application Programming Interfaces (APIs) and conventional OTAR are just some of the SFE options available.

### Comprehensive accessory suite

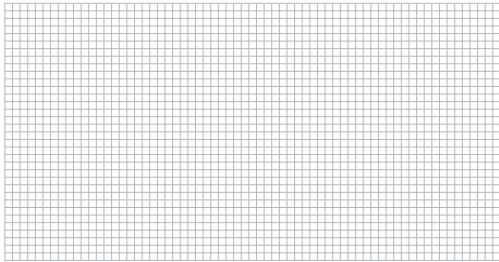
Complement your public safety radio with high performance accessories and charging options that will allow frontline staff to spend more time on patrol.

\*For further information on the KMF, please contact your local Tait representative





Being a manufacturer of digital and analog radios, base stations and network equipment means Tait has the solution focus to serve you better. Tait's P25 portables, mobiles and the hand-held control head all share the same intuitive interface.



### Regulatory Data

Regulatory Data				
USA	VHF	CFR 47 Parts 22, 90.210, 74, 90		
	UHF	CFR 47 Parts 22, 90.210, 74, 95A, 90		
	800MHz	CFR 47 Parts 22, 90		
Canada		RSS-119		
Europe		EN300 086, EN300 113 EN301 489 EN60950-01		
Australia/New Zealand		A3/NZS4295		
Type Approval	FCC	Industrie Canada	NTIA	
	VHF	CASTPAB1A	737A-TPAB1A	136-174MHz*
UHF				380-420MHz*
	800MHz	CASTPAH5A CASTPAH6A CASTPAK5A	737A-TPAH5A 737A-TPAH6A 737A-TPAK5A	
Emission Designators		10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K7F1D, 16K0F3E, 6K60FZD, 7K70F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 9K60F2D		



ISO 9001  
ISO 14001



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AUTHORIZED DEALER

www.taitradio.com

## TP9155/60 Specifications

### General

Frequency Ranges	Frequency Band*	
VHF	136-174MHz*	
UHF	380-420MHz*	
	400-470MHz	
	450-530MHz	
700/800MHz	<b>Transmit</b>	<b>Receive</b>
	762-776MHz	762-776MHz
	792-825MHz	
	851-870MHz	851-870MHz
Frequency Stability	±1.5ppm (22°F to 140°F/-30°C to 60°C)	
Channels/Talk-groups/Zones	1,000 channels/26 talk-group lists x 50 members/30 zones	
Dimensions (DxWxH)	1.9 x 2.6 x 6.6in (47 x 67 x 167mm)	
Weight (includes NiMH battery)	19.7oz (559g)	
	15.7oz (459g)	
Interfaces	Four-line full dot matrix LCD	
Channel Spacing	12.5/15/20/25/30kHz	
Frequency Increment	2.5/5/6.25	
Operational Temperature	-22°F to 140°F (-30°C to 60°C)	
Sealing	IP54 dust and rain	
Rated Audio	>500mW	

### Military Standards 810F\*\*\*

Applicable MIL-STD	Method	Procedure
Low Pressure	500.4	2
High Temperature	501.4	1, 2
Low Temperature	502.4	1, 2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	1, 3
Humidity	507.4	1
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1, 4

\*\*\* Also meets equivalent superseded MIL-STD 810C, D and E.

### Transmitter

	VHF	UHF	700/800MHz
Output Power	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W
Modulation Limiting			
25/30kHz channel	±5kHz		
20kHz channel	±4kHz		
12.5kHz channel	±2.5kHz		
FM Hum & Noise			
25/30kHz channel	-48dB	-41dB	-40dB
12.5/15kHz channel	-42dB	-37dB	-34dB
Conducted Emissions	-75dBc	-75dBc	-70dBc
Audio Response (Analog)			
12.5/15kHz	300-2550Hz +1/-3dB		
25/30kHz	300-3000Hz +1/-3dB		
Audio Distortion (Analog)	<5% @ 1kHz, 60% modulation		
Transmit Attack Time (TIA/EIA 102)	50mS		
Duty Cycle	1min Tx, 4min Rx for 8hrs @ 140°F (60°C)		

### Receiver

	VHF/UHF	700/800MHz
Analog Sensitivity		
12dB SINAD	0.28µV (-118dBm)	0.28µV (-118dBm)
Digital Sensitivity (TIA/EIA-102)		
5%BER	0.20µV (-121dBm)	0.20µV (-121dBm)
Intermodulation Rejection (TIA/EIA 102)	-78dB	-78dB
Adjacent Channel Selectivity		
25/30kHz channel (TIA/EIA 603)	-73dB	-70dB
12.5kHz channel (TIA/EIA 102)	-63dB	-60dB
Spurious Response Rejection	-75dB	-70dB
Residual Audio Noise Ratio (TIA/EIA 102)	45dB	45dB
Audio Distortion @ Rated Audio	<3%	<3%

### Battery

Intelligent Battery Options	
	NiMH, Standard and Intrinsically Safe 2400mAh
	Li-Ion 2500mAh**
Battery Shift Life (NiMH/Li-Ion)	>12 hours 5/5/90

### Charger

Charger Options (NiMH, Li-Ion)	
	Fast desktop smart charger
	6-way multi charger

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only.

\*Please note that not all frequency bands are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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\*\*Tait confirms that this product model conforms with NTIA requirements.

\*\*Not IS rated.