

Reliable • Clear Audio • Fully Compliant

TM9155 P25 mobile

Complete, affordable, high quality radio communications are the cornerstone of Tait's reputation. The new 9000 series P25 range of products continues this tradition with industry leading digital voice quality, rugged design specifications and intuitive user interfaces.

Dedicated to bringing you value, Tait offers a new class of P25 compliant radio solutions to meet the demanding needs of the public safety and public service sectors.

- Fully Project 25 Compliant
- Digital, Analog and Dual Mode Capable
- Robust Design Specifications
- Intelligent Scanning and Voting Capabilities
- Industry Leading Clear Digital Audio
- Full Range of Emergency and Safety Options
- Comprehensive P25 and Analog Signaling



TM9155 P25 mobile

Mission critical situations demand reliable, easy to use and clear communications. The TM9155 P25 mobile is a high quality, affordable radio you can depend on.

Not all P25 digital communications systems are created equal. The TM9155 mobile radio offers complete P25 digital and analog compliance and includes such extras as DTMF, high quality channel voting, numerous emergency operation options and automatic mode selection that give you the peace of mind you want from your radio communications system.

Designed with the functionality required for public safety and public service organizations, the TM9155 mobile brings you state-of-the-art radio design coupled with robust specs and industry leading digital audio clarity. Quality you can depend on at a price you can afford.



Inside the TM9155 mobile radio



Features

Full Project 25 Compliance

The TM9155 P25 mobile meets all Project 25 specifications for interoperability. As well as the mandatory parts of P25, optional P25 services such as individual calls, short data messages, status, radio inhibit/uninhibit and radio check are all available as standard. Tait's commitment to open standards means that your P25 system will not include proprietary encryption or signaling options that make inter-agency communications difficult.

Robust Design Specifications

Built to exceed the very demanding MIL-STD 810 C, D, E and F specifications and IP54 dust and rain tests, the TM9155 radio will survive your most demanding work conditions.

Easy to Use

A large display, dedicated function keys and modern intuitive menu make the TM9155 simple to operate. The user interface on the mobile is also virtually identical to the TP9100 portables, meaning it is easy to swap between using a portable and a mobile. A quick reference card, automatically generated at the time of radio programming, also makes it easy for new users to learn how to operate the radio.

Emergency and Safety Options

TM9155 mobile offer both stealth and panic modes of emergency operation that can be activated by a front panel button or hidden emergency button. A concealed microphone in the control head ensures that your help message will always get through.

Intelligent Scanning Capability

Fast reliable scanning is a given in the Tait P25 product portfolio, but sometimes you need more. The TM9155 mobile offers dual priority scanning, user programmable scanning and nuisance delete.

Industry Leading Clear Digital Audio

The IMBE Vocoder in the TM9155 mobile ensures your digital audio is always clear and crisp even in noisy background situations. With a front facing speaker as standard and the option of a powerful external speaker, TM9155 users will hear everything loud and clear.

Multi-site Operation

Whether in a simulcast system or a multicast voting system, you need a strong signal plus good error correction. For simulcast systems, Tait radios are optimized for clear reception of a variety of transmit modulation formats. With Tait's Intelligent Voting capability your radio can secure the best channel, both faster and more reliably than most competitive P25 radios on the market.

Standard Features

- Digital, Analog and Dual Mode Capable
- 512 Channels/Talkgroups
- 26 Zones
- Large Graphical Backlit LCD
- Internal Front Facing Speaker
- Scanning
 - Priority and Dual Priority
 - 300 Scan Groups
 - User Editable Scanning
 - Nuisance Delete
- Voting
- Economy Mode
- Simulcast Operation
- Repeater Talkaround/Direct Mode
- Programmable Power Settings
- Transmit Timer and Lockout
- Security Password
- Preset Home Channel
- Store and Forward*
- Emergency Operation
 - Stealth Mode
 - Panic Mode
 - Concealed Microphone
- Analog Operation
 - CTCSS/DCS
 - DTMF ANI
 - MDC 1200® ANI*
 - Inversion Scrambler
- Project 25 Subscriber Services
 - Individual Calls
 - Talkgroup Calls
 - Talking Party Identification
 - Call Alert/Radio Page
 - Short Data Messages
 - Status Messages
 - Radio Check
 - Radio Inhibit/Uninhibit
 - Radio Unit Monitor

Optional Features

- DES Encryption
- Administrator Mode
- AES Encryption*

Accessories

- Remote Trunk Mount or Dash Mount
- U-bracket or Security Cradle Mount
- Alphanumeric Keypad Microphone
- External Speaker
- Desktop Power Supply
- Desktop Microphone
- Handset
- Handsfree Kit
- Multiple Head/Radio Configurations*

* Future release





TM9155 with Standard Mic



TM9155 with Keypad Mic



TM9155 Remote Head

Regulatory Data

USA	VHF	CFR 47 Parts 22, 90.210, 74	
	UHF	CFR 47 Parts 22, 90.210, 74, 95A	
Canada		RSS-119	
Europe		EN300 086, EN300 113	
		EN300 219, EN301 489	
		EN60950-01	
Australia/New Zealand		AS4295: 1995	
Type Approval	FCC	Industrie Canada	
25W	VHF	CASTMAB1E	737-TMAB1E
	UHF	CASTMAH5E	737-TMAH5E
		CASTMAH6E	737-TMAH6E
50W	VHF	CASTMAB1F	n/a
40W	UHF	CASTMAH5F	n/a
		CASTMAH7F	n/a
110W	VHF	CASTMAB1Z	n/a
Emission Designators		10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	

Authorized Dealer



TM9155 Specifications

General

Frequency Ranges		25/50W	110W
	VHF	136-174MHz	136-174MHz
	UHF	400-470MHz 450-520MHz	
Channel Spacing		25/50W	110W
	VHF	12.5/25/30kHz	12.5/25/30kHz
	UHF	12.5/25kHz	
Channels/Talkgroups		512 channels/26 zones	
Frequency Stability		±1.5ppm (22°F to 140°F/-30°C to 60°C)	
Dimensions (w/o head) (LxWxH)	25W	5.51 x 6.29 x 1.97in (140 x 160 x 50mm)	
	40/50W	6.69 x 6.29 x 1.97in (170 x 160 x 50mm)	
	110W	14.6 x 9.8 x 4.8in (370 x 250 x 121mm)	
		25W: 37.7oz (1070g) 40/50W: 44.8oz (1270g) 110W: 296oz (8400g)	
Weight (w/o head)		25W: 37.7oz (1070g) 40/50W: 44.8oz (1270g) 110W: 296oz (8400g)	
Control Head		1.38 x 7.24 x 2.80in (35 x 184 x 71mm)	
	Dimensions (LxWxH)	11.6oz (330g)	
	Weight		

Environmental

Standard - MIL-STD-810F*	Method	Procedure	Procedure
	25/50/110W	25/50W	110W
Low Pressure	500.4	2	2
High Temperature	501.4	1, 2	2
Low Temperature	502.4	1, 2	2
Temperature Shock	503.7	1	1
Solar Radiation	505.4	1	-
Rain	506.4	1, 3	3
Humidity	507.4	1	-
Salt Fog	509.4	1	1
Dust	510.4	1	1
Vibration	514.5	1	1
Shock	516.5	1, 6	6

* Also meets equivalent superseded MIL-STD-810 C, D & E standards

Sealing	IP54 dust and rain
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Transmitter

RF Power Output	VHF	25W, 50W, 110W
	UHF	25W, 40W
Modulation Limiting	25/30kHz channel	±5kHz
	12.5kHz channel	±2.5kHz
FM Hum & Noise	25/30kHz channel	-53dB
	12.5kHz channel	-49dB
Radiated & Conducted Emissions	25/40/50W	-36dBm <1GHz (ETS300-086, AS4295.)
		-30dBm >1GHz (ETS300-086, AS4295.)
	110W	70dBc (TIA/EIA-102.CAAB-B 3.2.7)
Audio Response		+1/-3dB
Audio Distortion		3%

Receiver

	VHF/UHF	VHF NTIA 50W	110W
Analogue Sensitivity			
12dB SINAD	0.28µV (-118dBm)	0.315µV (-117dBm)	0.25µV (-119dBm)
Digital Sensitivity (TIA/EIA-102)			
5%BER#	0.20µV (-121dBm)	0.233µV (-120dBm)	0.18µV (-122dBm)
Intermodulation Rejection	-75dB	-75dB	-70dB
Adjacent Channel Selectivity	25/30kHz channel	-75dB	-75dB
	12.5kHz channel	-65dB	-70dB
		-75dB	-65dB
Spurious Response Rejection	-75dB	-90dB	-70dB
FM Hum & Noise	25/30kHz channel	-43dB	-43dB
	12.5kHz channel	-40dB	-40dB
		-43dB	-40dB
Audio Distortion @ Rated Audio	3% @ 1kHz 60% modulation (typical)		
Audio Response	+1/-3dB		



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 and power outputs are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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