



TAIT ORCA 5020

CONVENTIONAL

The **Tait Orca 5020** provides all the benefits and features that any radio user might need. Offering up to **350 channels**, this robust and stylish model provides all the high performance features you need in a conventional radio, right at your fingertips.





TAIT

Radio Communications

TAIT ORCA 5020

ORCA 5020 FEATURES

- > 350 Channels
- > 3 Programmable Function Buttons
- > Handset Operation
- > Keypad Lock
- > One Touch Call
- > Battery Charge Indicator
- > Menu System
- > Monitor Function
- > Selective Calling
- > Scanning & Voting
- > Repeater Talkaround
- > Call Queuing
- > Emergency Mode & SOS
- > Power Saving Modes
- > Remote Stun and Revive
- > Send and Receive Short Data Messages
- > Audio Noise Reduction
- > Channel Knob Disable
- > Lone Worker

OPTIONS

- > Intrinsically Safe
- > Encryption

ACCESSORIES

- > D-clip and Belt Loop
- > Belt Clips
- > Lapel Speaker Microphones
- > Desktop Charger
- > 6-Way Multi-charger
- > Carry Cases
- > Universal Accessory Interface
- > Full Car Kit

BATTERY OPTIONS

- > 1500mAh NiCd
- > 2000mAh NiMH

GENERAL

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Channel Spacing	12.5/20/25	12.5/20/25	12.5/20/25
Operating Temperature	-20°C to +60°C	-30°C to +60°C	-30°C to +60°C
Transmit Power	1, 2.5, 5 W	1, 2.5, 5 W	1, 2.5, 4 W
Power Supply	7.5 Volts	7.5 Volts	7.5 Volts
Frequency Increments	5 or 6.25kHz	5 or 6.25kHz	5 or 6.25kHz
Frequency Stability	+/- 10ppm (-10°C to +60°C) +/- 15ppm (-10°C to -20°C)	+/- 2.5ppm (-30°C to +60°C)	+/- 2.5ppm (-30°C to +60°C)

TRANSMITTER

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Measurements as per:	ETS 300-086	ETS 300-086	ETS 300-086
Power Output (Low/Mid/High)	1 / 2.5 / 5W	1 / 2.5 / 5W	1 / 2.5 / 4W
Spurious Emissions (Conducted and Radiated)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)	< -36dBm (0-1GHz), < -30dBm (1-4GHz)
Hum and Noise (EIA)	38dB (NB), 43dB (WB)	36dB (NB), 42dB (WB)	35dB (NB), 41dB (WB)
Modulation Type	Direct FM	Direct FM	Direct FM
Deviation Limiting	Adjustable up to +/- 5kHz	Adjustable up to +/- 5kHz	Adjustable up to +/- 5kHz
Audio Response (300Hz - 2.55kHz)	Within +1/-3dB of 6dB / Octave Pre-emphasis	Within +1/-3dB of 6dB / Octave Pre-emphasis	Within +1/-3dB of 6dB / Octave Pre-emphasis
Distortion (EIA)	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation

RECEIVER

Specification	66-88MHz	VHF (136-174MHz)	UHF (400-470, 450-530MHz)
Measurements as per:	ETS 300-086	ETS 300-086	ETS 300-086
Intermediate Frequencies	21.4MHz and 455kHz	21.4MHz and 455kHz	45.1MHz and 455MHz
Sensitivity 12dB SINAD	< -119dBm	< -119dBm	< -119dBm
Sensitivity 20dB SINAD	< -114dBm	< -114dBm	< -114dBm
Fixed Squelch Sensitivity	12dB SINAD or 16dB SINAD Nominal	12dB SINAD or 16dB SINAD Nominal	12dB SINAD or 16dB SINAD Nominal
Selectivity	70dB (NB), 75dB (WB)	70dB (NB), 75dB (WB)	66dB (NB), 72dB (WB)
Spurious Response	70dB	70dB	70dB
Intermodulation	65dB	65dB	65dB
Blocking	94dB	94dB	94dB
Ultimate Signal to Noise Ratio (EIA)	39dB (NB), 44dB (WB)	37dB (NB), 42dB (WB)	34dB (NB), 40dB (WB)
Audio Response (300Hz - 2.55kHz)	Within +1/-3dB of 6dB / Octave De-emphasis	Within +1/-3dB of 6dB / Octave De-emphasis	Within +1/-3dB of 6dB / Octave De-emphasis
Distortion (EIA)	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation	<5% @ 1kHz, 60% Deviation
Rated Audio Output	>500mW	>500mW	>500mW





Professional Radio & Paging Communication Specialists

TAIT AUTHORISED DEALER

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purpose only. For further information please check with your nearest Tait office or authorised dealer. The radio meets applicable regulatory requirements.

