



- Selcall / Telcall
- GPS interface software
- SMS - Pagecall
- Multiple Self ID's
- 2019 Auto tune HF antenna
- Address books

Designed and built in Australia for the world's harshest conditions, Barrett HF equipment thrives in the outback and has the track record to prove it. The Barrett "Outback Traveller Pack" should be considered as standard equipment for anyone travelling in remote areas.

Utilising the "free to air" nature of HF communications, the "Outback Traveller Pack" provides access to essential safety and emergency services with no ongoing call charges.





2050 HF SSB transceiver features

(Features and options listed below are standard inclusions with the 2000 Series Outback Traveller Pack).

HF spectrum coverage

Transceiver will be programmed with frequencies to meet Australian Communications and Media Authority (ACMA) requirements.

100 Watt PEP power output

The transceiver has 100 Watt (PEP) power output in voice mode on all frequencies.

Selective call - Selcall

Selective call - Selcall - provides a simple and efficient method of calling stations within an HF network. The 2050 allows either 4 or 6 digit Selcalls which can be programmed into the transceiver on a channel by channel basis. Selcall ID's and details can be stored in the internal address book.

Direct dial telephone calls

Telcall allows telephone access utilising direct dial telephone services (such as those provided by the Radtel HF Radio Network) to place or receive telephone calls without the requirement to go through an operator (call charges may apply).

Scanning

Channel scanning combined with Selcall enables calls to get through on the channel most suitable. Eight scan tables are available with up to 30 channels programmable per table.

Emergency Selcall with geographical position

The Barrett 2050 displays and annunciates emergency selective calls, also showing the position of the station sending the emergency call if it is fitted with a GPS receiver.

Scan resume - no missed calls

If the transceiver has been left unattended it automatically returns to scanning and is ready to receive calls on any channel.

Call history

Detail of all recent calls, including call type, time, date and Selcall ID are held in history buffers for future viewing.

SMS

Allows short text messages to be sent from one 2050 transceiver to another using the alpha numeric keypad on the front of the transceiver.

Tunable receiver

Tunes all frequencies, in all modes, between 500kHz to 30MHz down to 1Hz steps.

Microphone

Uses an easy to replace, commonly available microphone with an industry standard plug.

Rugged construction

An extruded aluminium chassis combined with a rugged weather resistant polycarbonate alloy front panel has been designed to withstand harsh and hostile environments. Extensive vibration testing and temperature cycling has proved the Barrett 2050 will operate in the world's toughest environments.

Compact, easy to install remote control head for vehicles

The 2050 remote control configuration is ideal for installation into today's compact vehicles.

Noise reduction

The 2050 utilises a Digital Signal Processing (DSP) noise reduction system.

GPS interface software

The GPS interface software installed in your transceiver used in conjunction with an external GPS receiver (not provided) will enable the following:- display of your current position (latitude and longitude), transmission of your position to another Barrett transceiver, and the ability to interrogate the position of other similarly equipped Barrett transceivers.

The "Outback Traveller Pack" includes

Barrett 2050 HF SSB transceiver with remote control head, extension speaker, vehicle mounting cradle, mounting hardware, and Barrett 2019 automatic tuning mobile antenna.





2019 Automatic tuning mobile HF antenna

- Waterproof rugged enclosure
- MIL-STD two piece whip
- NVIS operation
- Solid state - no moving parts

The Barrett 2019 is an automatic tuning mobile antenna, designed to interface with Barrett 2000 series transceivers.

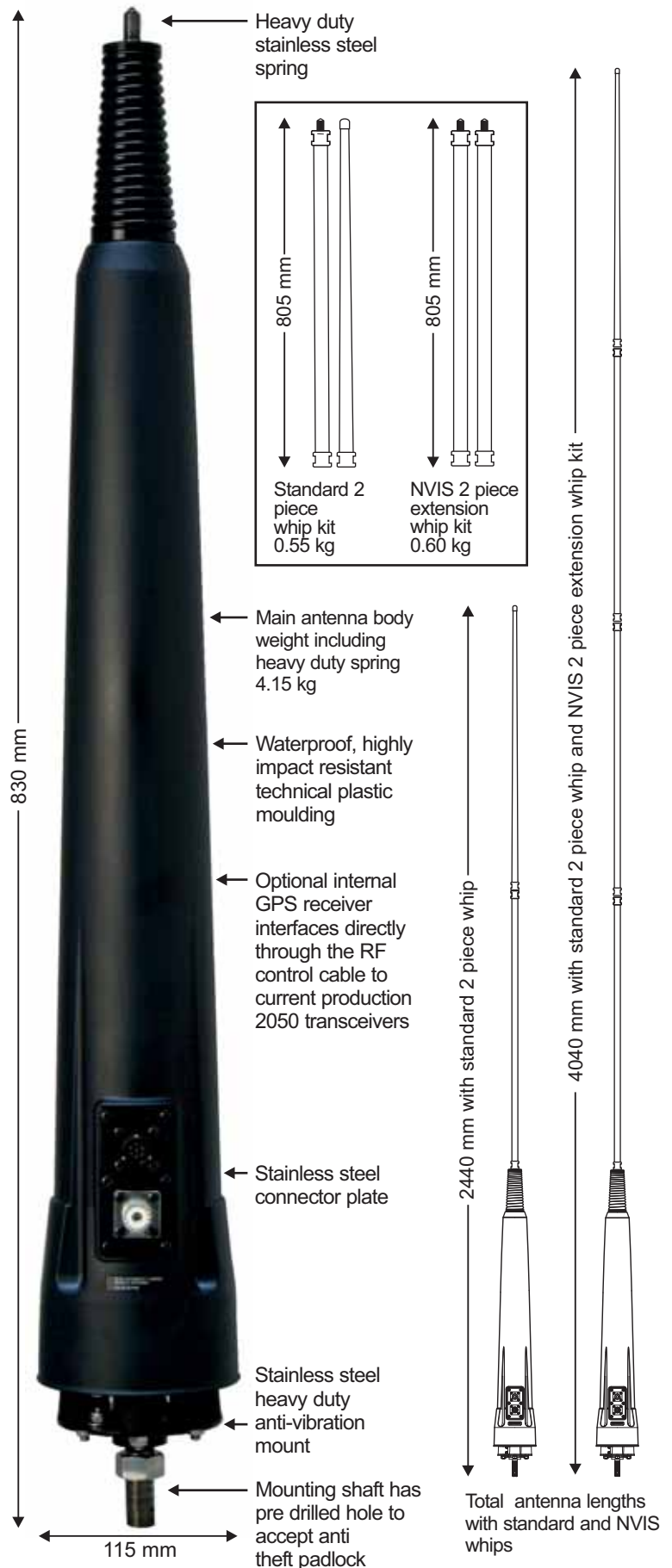
Providing a frequency coverage of 2 MHz to 30 MHz, the Barrett 2019 features rapid tuning (typically <1.5 S) and low power consumption. High radiation efficiency and accurate tuning are assured by maximising antenna current (not minimising the VSWR) on every tune. The Barrett 2019 antenna incorporates a wideband amplifier that is activated in receive mode to enable channel scanning. Due to its rugged RF design, the Barrett 2019 antenna can also be used with high duty cycle applications such as the Barrett 923 or 2020 fax and data system and is compatible with ALE operation.

An optional GPS receiver can be fitted within the 2019 antenna casing and interfaces directly through the RF control cable to current production 2050 transceivers. The active tuning elements of the antenna are housed in black waterproof, highly impact resistant technical plastic moulding. The housing incorporates a heavy duty anti-vibration mount at its base. Even with its rugged construction, the Barrett 2019 weighs only 3.6 kg.

The Barrett 2019 is supplied standard with a two piece fibreglass MIL-STD whip and a tapered spring. An optional NVIS extension is available in the form of two extra whip sections. The main antenna body has a MIL-STD control cable connector and a UHF RF connector. The 2019 is supplied with a 6 metre composite control and RF cable and connectors to connect it with the transceiver. A 10 metre control RF cable is available as an accessory.

General specifications

Frequency range	2 MHz to 30 MHz (continuous)
Power handling capability	150 W PEP
VSWR	Better than 2:1 when tuned
Tuning time	Less than 1.5 seconds (typical)
Operating temperature	-30°C to +60°C
Humidity	95% relative, non-condensing
Environmental	IP67
Supply voltage	12.6 V DC (derived from transceiver)
Antenna impedance	50 ohm unbalanced
Mounting	M16 stud with provision for padlock
Weight	Main antenna body weight including heavy duty spring 4.15 kg
Input current	Average 600 mA @ +12.6 V input
Standards	Complies with MIL-STD 810G for drop, dust, temperature, shock and vibration





General specifications

Transmit frequency range	1.6 MHz to 28 MHz (continuous)
Channel capacity	Up to 500 programmable channels
Frequency stability	±0.5 ppm
Receive frequency range	250 kHz to 30 MHz (continuous)*
Frequency resolution	1 Hz tunable receiver
Operating modes	J3E (USB, LSB) - H3E (AM) - J2A (CW) J2B (AFSK)
Operating temperature	-30°C to +70°C humidity 95% relative, non condensing
Supply voltage	2050 -13.8 V DC (negative ground) polarity protected. Over voltage protected
Selcall system	Based on CCIR 493-4, four and six digit systems
Sensitivity	-120 dBm (0.224 uV) for 10 dB SINAD - J3E Mode
RF output power	125 W PEP voice ±1.5 dB or 30 W PEP voice ±1.5 dB or 10 W PEP voice ±1.5 dB
Standards	Exceeds/complies with Australian/ New Zealand standard AS/NZS 4770:2000 and AS/NZS 4582:1999

*reduced sensitivity 250 kHz to 500 kHz

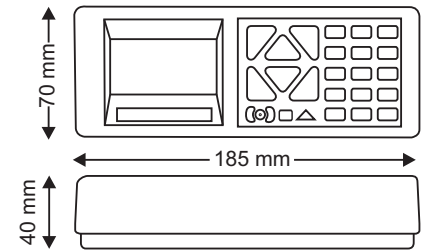
Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.

Summary of features and options

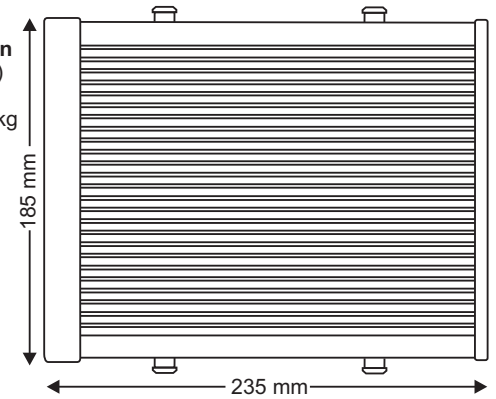
- Software Defined Core
- Advanced calling features
- Detachable Front Panel
- Enhanced DSP noise reduction
- Lightweight and Compact Design
- BITE - Built-in Test Equipment
- Second antenna connector
- Telcall
- "SMS Pagecall" short text messaging
- 1.6 to 28 MHz continuous
- Intuitive and user-friendly interface
- 3 year warranty (Standard)
- Independent of all other communications' networks
- Free to air - no call costs



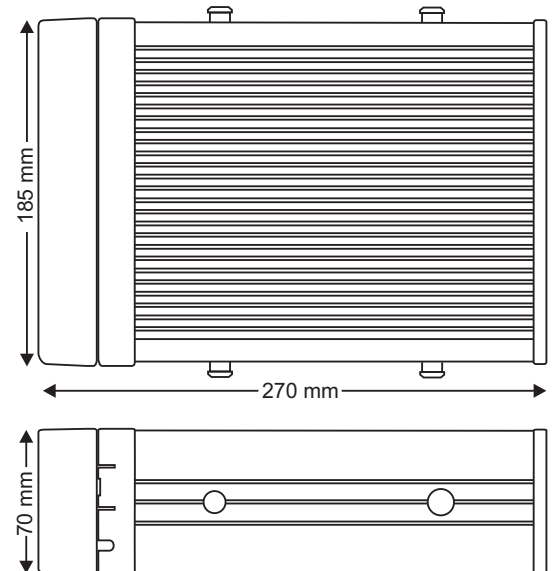
2050 remote control head
(trunk mount configuration)
Weight 0.22 kg



2050 remote configuration
(trunk mount)
main unit
Weight 2.36 kg



2050 local control configuration
Weight 2.58 kg



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