4000 SERIES **HF RADIO** CATALOGUE

ISO 9001
BUREAU VERITAS
Certification

BUREAU VERITAS
1828

BARRETT   4000 **Series Catalogue**

Contents

Pages

Note:- 1. Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation
2. For complete technical specifications please refer to your business development manager
3. Net weights provided are indicative and are subject to variation, they are provided as guide for operational use of products only.
   Packed weight will be determined based on orders once received and as such are not indicated in this catalogue.

4050 HF SDR

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	Part Number	Packaging Type	Net Weight	
4050 HF SDR	BC405000	C2	4.90 kg	

Standard features:-
- 1000 channels with frequency range 1.6 to 30 MHz
- 1000 contact entries
- Power output 125 W PEP, power input 12 VDC nominal
- Power output 150 W PEP, power input 24 VDC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS enabled (Hardware required)

Optional features include*:-
- 2G ALE
- 3G ALE
- Secure call
- Frequency hopping
- Digital voice
- ARINC
- GPS

BC405000

BCA40010

BCA40015

BCA40006

BCM40500

* For additional options and accessories, please see relevant section detail.

Note :- See brochure for more detailed information.

Includes:-

Hand microphone with channel up/down buttons	BCA40010			
Loudspeaker	BCA40015			
DC power cable and connector - 6 metres	BCA40006			
Barrett 4050 Operation and installation manual	BCM40500			

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4000 Series Catalogue

	Part Number	Packaging Type	Net Weight	
4050R HF SDR (Receiver only)	BC405001	C2	4.90 kg	

Standard features:-
- 1000 channels with frequency range 1.6 to 30 MHz
- 1000 contact entries
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Syllabic mute, signal strength mute
- 600 ohm audio output with software level control
- 600 ohm audio output can be set to follow selected mutes
- Frequency stability ± 10 Hz -30°C to +60°C

Note :- See brochure for more detailed information.

BC405000

BCA40006

BCA40015

BCM40500

Includes:-

Loudspeaker	BCA40015			
DC power cable and connector - 6 metres	BCA40006			
Barrett 4050 Operation and installation manual	BCM40500			

Link Establishment Options

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	Part Number	Packaging Type	Net Weight	
2G Automatic link establishment (ALE)	BCO40501	N/A	N/A	

MIL-STD 188-141B 2G / FED-STD 1045 ALE

Internal Fit

Note:- When using ALE at least one ALE fill program is required by the system administrator to set up the ALE network - this fill program is included in the 4000 series programming kit
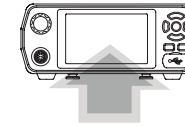P/N BCA40001
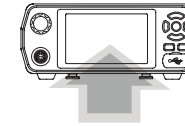
	Part Number	Packaging Type	Net Weight	
3G Automatic link establishment (ALE)	BCO40502	N/A	N/A	

3rd generation to STANAG 4538. One transceiver must be fitted with GPS (Master transceiver).
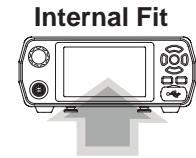3G uses GPS for time reference and distribution.

Internal Fit

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	Part Number	Packaging Type	Net Weight	
Digital voice module: DV	BCO40505	N/A	N/A	

Digital Voice Vocoder Module 700/1200/2400 bps

Includes:-
- "TWELP" Vocoder
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

Note:-
- Factory internal fit only
- Does not include encryption
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (Internal fit)

Internal Fit

	Part Number	Packaging Type	Net Weight	
ARINC Selcall encoder	BCO40509	N/A	N/A	

Enables transmission of aviation ARINC standard selcall.

Internal Fit

	Part Number	Packaging Type	Net Weight	
Wifi Adaptor	BCO40508	N/A	0.01 kg	

This option enables you to use external devices such as tablets and smartphones to control the transceiver using Barrett apps (iOS / Android).

Includes:-
- 4000 Series IP Connectivity Networking Guide on USB P/N BCUSB40507
- Wifi Adaptor product information document P/N BCM40520

Options

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	Part Number	Packaging Type	Net Weight	
Desktop app (Windows)	BCO40516	N/A	N/A	

Enable you to control your transceiver from your Windows desktop computer.

Includes:-
- Desktop microphone P/N BCA40017
- Desktop headphone P/N BCA40018

Note:- WiFi option must be enabled.

	Part Number	Packaging Type	Net Weight	
PC Programming kit - for 4050	BCA40001	C4	0.10 kg	

Includes:-
- Software (Operating manual included on the USB) P/N USB-40001

Voice Security Options

		Part Number	Packaging Type	Net Weight	
BARRETT	4000 **Series Catalogue**				

Options

Secure call	BCO40503	N/A	N/A	

A point to point or point to multipoint Secure call system initiated by the entry of a scramble key and secure call selcall.
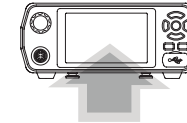
Internal Fit
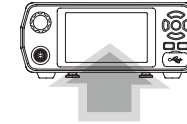
Frequency hopping	BCO40504	N/A	N/A	

5 or 25 hops per second - no central synchronisation station, no net entry delay or late entry delay. ESU/GPS to be purchased separately.

Note:- This option requires an Australian Government Export Licence.

Internal Fit

Secure digital voice module with DES 56 encryption - SDV-56	BCO40506	N/A	N/A	

Secure digital voice module auto vocoder 700/1200/2400 with DES 56 encryption

Includes:-
-"TWELP" Vocoder
-Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

Note:-
- Factory internal fit only
- This option requires key management and keyfill software P/N BCA40521
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (Internal fit)
- This option does not require an Australian Government Export Licence

Internal Fit

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	Part Number	Packaging Type	Net Weight	
Secure digital voice module with AES 256 encryption - SDV-256	BCO40507	N/A	N/A	

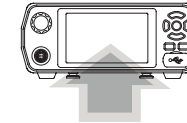Secure digital voice module auto vocoder 600/1200/2400 with AES 256 encryption

Includes:-
- "TWELP" Vocoder
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

Note:-
- Factory internal fit only
- This option requires key management and keyfill software P/N BCA40520
- Can be implemented with Mil Data standards
- Can be implemented alongside Clover Data (Internal fit)
- This option requires an Australian Government Export Licence

Internal Fit
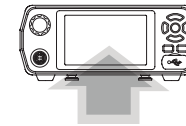
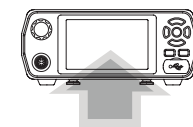|	Part Number	Packaging Type	Net Weight	
Key management and keyfill software DES 56	BCA40521	N/A	N/A	

For use with SDV-56 - P/N BCO40506

Includes:-
- Scrambler key injection software P/N BCUSB40521
- Programming cable P/N BCA90023
- USB to serial adaptor P/N BCA92318

Internal Fit

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	Part Number	Packaging Type	Net Weight	
Key management and keyfill software AES 256	BCA40520	N/A	N/A	

For use SDV-256 - P/N BCO40507

Includes:-
- Scrambler key injection software P/N BCUSB40520
- Programming cable P/N BCA90023
- USB to serial adaptor P/N BCA92318

Internal Fit

	Part Number	Packaging Type	Net Weight	
Voice scrambler FFT OEM Secure	BCO40510	N/A	N/A	

Enables the 4050 to operate in FFT based voice scramble mode.

Note:- This option requires key management and keyfill software
Please see key injection kit P/N BCA20255

Internal Fit

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	Part Number	Packaging Type	Net Weight	
Voice encryption DES 56 OEM Secure	BCO40511	N/A	N/A	

Enables the 4050 to operate DES 56 Digital voice encryption (2400 bps MELPe Vocoder) mode with fall back analogue FFT scrambler for use on extremely bad HF channels.

Note:- This option requires key management and keyfill software
     Please see key injection kit P/N BCA20255

Internal Fit

	Part Number	Packaging Type	Net Weight	
Voice encryption AES 256 OEM Secure	BCO40512	N/A	N/A	

Enables the 4050 to operate in AES 256 (2400 bps MELPe Vocoder) with fall back analogue FFT scrambler for use on extremely bad HF channels.

Note:- This option requires key management and keyfill software
     Please see key injection kit P/N BCA20255

Internal Fit

Note:- This option requires an Australian Government Export Licence.

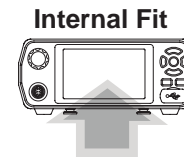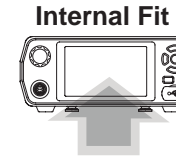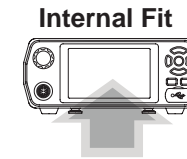|	Part Number	Packaging Type	Net Weight	
Key injection kit for voice encryption AES 256/DES 56/ FFT OEM Secure	BCA20255	C4	0.20 kg	

Includes:-
- Scrambler key injection software P/N BCUSB20255
- Programming cable P/N BCA90023
- USB to serial adaptor P/N BCA92318

Options

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Data Transmission Options

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	Part Number	Packaging Type	Net Weight	
4026 MIL 110B Strategic email system (Stanag 5066)	BC402601	N/A	N/A	

Barrett MIL 110B Strategic email system (Stanag 5066) - 9600bps HF Data Modem
(4050 series internal fit option).

Internal Fit

Includes:-
- HF MIL 110B Stanag 4539 9600bps Modem with MDL-M4 SW
- RC50-B 5066 email suite (Window)
- Serial cable for 4050 Transceiver with 9/25 pin adaptors P/N BCA90023
- USB to Serial adaptor P/N BCA92318

Note:- Requires 2G ALE - Automatic Link Establishment option for Link set up P/N BCO40501
Requires 3.0 kHz bandwidth selection for 9600bps operation
Does NOT include encyption as standard - See option P/N BCO40506/7

Options:-

	Part Number	Packaging Type	Net Weight	
COMSEC 56 bit DES Data encryption for use with MIL 110B modems **Note:-** Not required if data option ordered with P/N BCO40506	BCO40526			
COMSEC 256 bit AES Data encryption for use with MIL 110B modems **Note:-** Not required if data option ordered with P/N BCO40507 **Note:-** This option requires an Australian Government Export Licence.	BCO40527			

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	Part Number	Packaging Type	Net Weight	
4026 3G Data, Email & Internet Gateway system	BC402602	N/A	N/A	

Barrett 3G Data, Email & Internet Gateway software to suit 3G Email System

Internal Fit

Includes:-
- HF Packet Data modem (STANAG 4538)
- Barrett 3G Data & Email system configuration software
- Serial cable for 4050 Transceiver with 9 / 25 pin adaptors P/N BCA90023
- USB to Serial adaptor P/N BCA92318

Note:- Requires 3.0 KHz bandwidth selection for 9600bps operation
Does NOT include encryption as standard - See options P/N BCO40506/7 or Vocoder option P/N BCO40501
At least one server require per network for internet email connectivity.
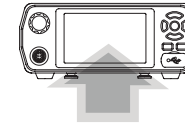
Options

Options:-

COMSEC 56 bit DES Data encryption for use with MIL 110B modems **Note:-** Not required if data option ordered with P/N BCO40506	BCO40526			

COMSEC 256 bit AES Data encryption for use with MIL 110B modems **Note:-** Not required if data option ordered with P/N BCO40507 **Note:-** This option requires an Australian Government Export Licence.	BCO40527			

		Part Number	Packaging Type	Net Weight	
BARRETT	**4000 Series Catalogue**				
4023 Clover 2000 HF Data modem internal fit PCB		BC402301	N/A	N/A	

Includes:-
- Serial cable P/N BCA90023
- USB to serial adaptor P/N BCA92318
- 2020 HF Email with internet and fax gateway software P/N BCA202005
- Clover link security and DES56 (Digital encryption standard) on air data encryption

Internal Fit

Accessories

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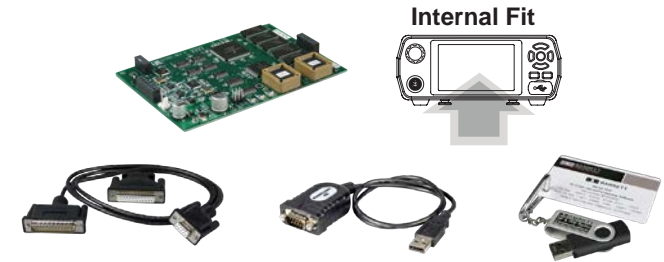
	Part Number	Packaging Type	Net Weight	
Mobile pack	BCA40501	C6	1.25 kg	

Has all parts required to use 4050 as a mobile transceiver in a remote control (trunk mount) configuration and to install it.

Includes:-
- Universal mounting plate for main unit P/N BCA40003
- 6 metres control head cable P/N BCA40005
- Control head mounting adaptor P/N PW-33334
- Installation kit BCA40004

Breakout box	BCA40050	C4	0.95 kg	

For attaching multiple accessories and network capability such as ethernet, linear amplifier, second control head, ATU's, antennas, wifi, USB and serial data.

Includes:-
- Control cable P/N BCA97503
- Data cable P/N BCA40051
- 4000 Series IP Connectivity Networking Guide on USB P/N BCUSB40507
- Breakout box product information document P/N BCM40521

GPS receiver	BCA40009	C4	0.15 kg	

Combined receiver / antenna to suit 4050 Transceiver.

Includes:-
- 4 metres cable and connector.

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	Part Number	Packaging Type	Net Weight	
Remote head interface cable - 6 metres	BCA40005	C4	0.55 kg	

For 4050 Transceivers.

DC power cable and connector - 6 metres	BCA40006	C4	1.50 kg	

6 metres power cable with DB-15 combination connector to suit 4050 Transceiver.

Hand microphone with channel up/down buttons	BCA40010	C4	0.15 kg	

Microphone with up/down buttons and connector to suit 4050 Transceiver.

Hand / speaker microphone	BCA40023	C4	0.15 kg	

Combined speaker microphone with up/down buttons and connector to suit 4050 Transceiver.

Accessories

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	Part Number	Packaging Type	Net Weight	
Desk microphone	BCA40011	C6	1.0 kg	

For 4050 transceiver

	Part Number	Packaging Type	Net Weight	
Headphones - lightweight	BCA40013	C6	0.30 kg	

Folding headphones with connector to suit 4050 Transceiver - colour black.

	Part Number	Packaging Type	Net Weight	
Headset - with boom mic	BCA40040	C4	0.30 kg	

Folding headphone with boom mic to suit 4050 Transceiver - colour black

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	Part Number	Packaging Type	Net Weight	
Loudspeaker	BCA40015	C4	0.20 kg	

Extension speaker with connector to suit 4050 Transceiver.

	Part Number	Packaging Type	Net Weight	
Power supply stacking cradle	BCA40016	C4	0.50 kg	

For 4050 Transceiver and 4022 power supply.

	Part Number	Packaging Type	Net Weight	
Universal mobile mounting plate	BCA40003	C4	0.50 kg	

Universal mobile mounting plate to suit 4050 Transceiver.

	Part Number	Packaging Type	Net Weight	
Fan unit	BCA40002	C4	0.30 kg	

For 4050 Transceiver in applications such as mobile data and medium duty cycle applications.

Accessories

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	Part Number	Packaging Type	Net Weight	
Installation kit	BCA40004	C4	0.20 kg	

Includes:-
- Large selection of screws to accommodate most installations
- Cable ties
- Adhesive cable clips
- Screw driver attachment to suit screws for drill
- Rubber amalgamation tape
- Standard insulation tape
- Power cable lugs
- ATC fuse holder and 25 Amp fuses

	Part Number	Packaging Type	Net Weight	
Interference suppression kit	BCA40008	C4	0.45 kg	

To aid in supressing vehicle produced interference from alternators and small motors and ignition system.

Includes:-
- Supressors for alternators and motors
- Lugs
- Earthing cable
- Clips

	Part Number	Packaging Type	Net Weight	
CW key - lightweight	BCA40014	C4	0.40 kg	

Brass CW key with leg strap and connector to suit 4050 Transceiver.

4022 Power supply

	Part Number	Packaging Type	Net Weight	
4022 Mains power supply 24V	BC402201	C2	4.60 kg	

Features:-
- 24 VDC output @ 18 Amp
- 88 to 264 AC 60/50 Hz input (auto ranging)
- No-break battery backup facility
- Full protection
- Internal speaker

BC402201   SA-42020

SA-45010   SA-00020   BCM40220

Note :- See brochure for more detailed information.

Includes:-

	Part Number		
IEC mains cord UK, European, AUS, JP and US style	SA-00020		
Power cable - 4022 to 4050	SA-42020		
Speaker cable	SA-45010		
4022 Mains power supply operation manual	BCM40220		

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	Part Number	Packaging Type	Net Weight	
Battery backup cable 3 metres - for 4022 Power supply	BCA402201	C4	1.05 kg	

To connect external battery for no-break battery backup in case of AC supply failure.

Includes:-
- Universal battery lugs

	Part Number	Packaging Type	Net Weight	
100 Ah 12 V sealed solar block battery - air-freightable	BCA92203	N/A	32 kg	

For no-break battery backup in case of AC supply failure.

	Part Number	Packaging Type	Net Weight	
Cabling kit for paralleling batteries - per additional battery, consists of two heavy duty cables with lugs and two battery lugs	BCA92208	C4	0.35 kg	

To parallel several batteries as above to increase the battery backup time in case of AC supply failure.

Accessories

Antennas

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	Part Number	Packaging Type	Net Weight	
2019 Automatic tuning mobile HF antenna to suit 4000 series	BC401900	C5	5.50 kg	

Features:-
- Frequency range 2 to 30 MHz
- Fast tuning - typically less than 2 seconds

Note:- See brochure for more detailed information.

4019-00-02   BCA201903   BCM201901

SA-2019   BCA201901

Includes:-

Barrett 2019 Antenna	SA-2019		
Control cable 6 m - integral coaxial/control with connectors to suit 4000 series	4019-00-02		
Fibreglass split whip top section and bottom section	BCA201901		
Standard spring black - for 2019	BCA201903		
Barrett 2019 Installation sheet	BCM201901		

Internal fit GPS Receiver for 2019 Antenna	BCA201902	N/A	N/A	

GPS receiver fitted inside the 2019 Antenna, interfaces to the 4050 Transceiver via the RF control cable supplied with 2019 Antennas.

Internal Fit

	Part Number	Packaging Type	Net Weight	

4000 Series Catalogue

NVIS Whip

	BCA201910	T4	1.0 kg	

The Barrett Near Vertical Incidence Skywave (NVIS) antenna whip is designed to enhance the short range communications efficiency of the Barrett 2019 Automatic Tuning Mobile HF Antenna. The usable frequencies for NVIS communications are between 2 MHz and 15 MHz.
Length 4000 mm

Includes:-
- NVIS Gutter mount bracket P/N BCA201912
- Carry bag - colour black P/N BC-00011
- NVIS kit installation guide P/N BCM201910
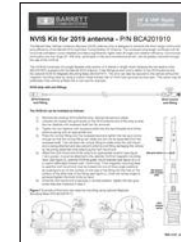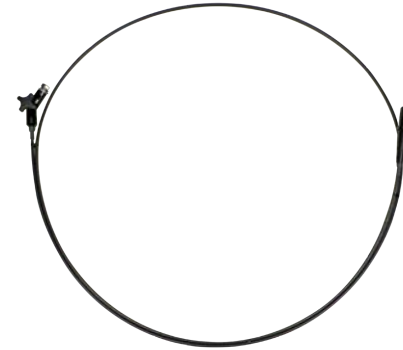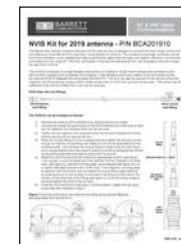
NVIS Magnetic base

	BCA201911	C4	0.40 kg	

The NVIS Kit Magnetic Mounting Base is designed to provide fast and convenient mounting of the end of the NVIS antenna whip (P/N BCA201910). The three powerful magnet feet are covered with silicone rubber to prevent damage to painted surfaces.

Includes:-
- NVIS kit installation guide P/N BCM201910

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	Part Number	Packaging Type	Net Weight	
NVIS Gutter mount bracket	BCA201912	C4	0.16 kg	

Gutter mount bracket for NVIS whip.

Includes:-
- NVIS kit installation guide P/N BCM201910
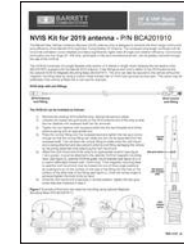
	Part Number	Packaging Type	Net Weight	
Stainless steel whip	BCA201906	T4	0.40 kg	

Single section stainless steel whip for the Barrett 2019 Automatic tuning mobile antenna
for NVIS operation. Lenght 2080 mm.

	Part Number	Packaging Type	Net Weight	
Extendable whip	BCA201909	T3	0.25 kg	

Tapered, blackened, aluminium whip shaft with pull out, blackened stainless steel whip for use with 2019
automatic tuning mobile antenna
Unextended length – 810 mm
Extended length – 1560 mm

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	Part Number	Packaging Type	Net Weight	
Fibreglass split whip top section and bottom section	BCA201901	T3	0.55 kg	

Includes:-
- one middle and one top MIL-SPEC Whip sections (colour black)
- Length 1610 mm

	Part Number	Packaging Type	Net Weight	
Standard spring black - for 2019	BCA201903	C4	0.70 kg	

2019 Standard spring - colour black.

	Part Number	Packaging Type	Net Weight	
Control cable 2019 Antenna to transceiver - 6 metres	4019-00-02	C6	0.95 kg	

6 metres - composite cable combining control and coaxial cable - with connectors to suit 2019 Automatic tuning mobile when used with 4000 series products.

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	Part Number	Packaging Type	Net Weight	
Control cable 2019 Antenna to transceiver - 20 metres	4019-00-06	C2	3.75 kg	

20 m - composite cable combining control and coaxial cable - with connectors to suit 2019 Automatic tuning mobile when used with 4000 series products.

	Part Number	Packaging Type	Net Weight	
Universal antenna mounting bracket	BCA90033	C6	1.45 kg	

Suit 2019 Automatic tuning mobile antennas mounted on bull bars.

Antennas

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	Part Number	Packaging Type	Net Weight	
2018 Mobile magnetic loop HF antenna	BC201802	N/A	N/A	

The Barrett 2018 is ideal for NVIS propagation or applications requiring constant coverage for distances of 0-1000 km.

Note:- See brochure for more detailed information.
Roof mounting brackets not included.

2018-00-01   4019-00-02   BCM201800

Includes:-

	Part Number	Packaging Type	Net Weight	
6 metres Interface cable and coaxial cable	4019-00-02			
Operation and installation manual	BCM201800			

	Part Number	Packaging Type	Net Weight	
4017 Automatic tuning horizontal dipole (2-30 MHz) - 150 W PEP to suit 4000 series	BC401701	C5 & T5	10.0 kg	

The Barrett 4017 is a compact base antenna solution for installations in areas with space limitations where normal wire broadband antennas are not practical.
Full Coverage from 2~30MHz.
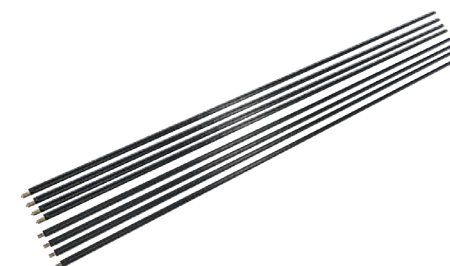Omni directional radiation, Can be installed on wide range of masts & poles
Recommended height 6 ~ 10 metres
Max installed length 5.7 metres
Compact packaging for air shipment
ALE compatible

Includes:-
- 30 metres of integral RF control cable and connectors P/N 4017-01-01
- 4017 Automatic tuning horizontal dipole user manual P/N BCM401700

Note:- See brochure for more detailed information

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	Part Number	Packaging Type	Net Weight	
4011 Automatic antenna tuner to suit 4000 series	BC401101	C2	4.20 kg	

Features:-
Frequency Range: 2 - 30MHz tuneable
Power Rating: 150 Watts PEP
Memory tune in <130ms, Non-Memory tune in <1 sec
ALE compatible
Frequency-hopping compatible
MIL-STD-810F   Waterproof ,Vibration, and Dust

Includes:-
- 6 metre extension control cable and connectors P/N 4019-00-02
- 4011 Automatic antenna tuner user manual P/N BCM401100

Note:- See brochure for more detailed information
        Not suitable for fixed marine installations

	Part Number	Packaging Type	Net Weight	
912 Multi-wire broadband dipole (2 - 30 MHz) - 150 W PEP	BC91200	N/A	6.0 kg	

27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

Includes:-
- 30 metres of RG-58AU coaxial cable with waterproof UHF coaxial connectors

Note:- Masts illustrated not provided.

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Part Number	Packaging Type	Net Weight	

| **912 Single-wire broadband dipole (2 - 30 MHz) - 150 W PEP** | BC91201 | N/A | 3.60 kg | |

27 metres stainless steel and encapsulated baluns and loads.

Includes:-
- 30 metres of RG-58AU coaxial cable with waterproof UHF coaxial connectors

Note:- Masts illustrated not provided.
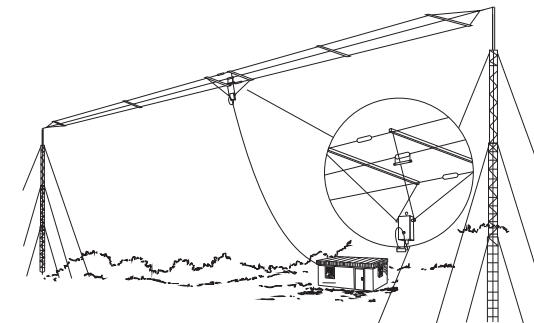
| **912 Multi-wire broadband dipole (2 - 30 MHz) - 500 W PEP** | BC91202 | N/A | 25 kg | |

27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

Includes:-
- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors

Note:- Ground catenary and masts illustrated not provided.

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4000 Series Catalogue

	Part Number	Packaging Type	Net Weight	
912 Multi-wire broadband dipole (3.6 - 30 MHz) - 1 kW continuous	BC91203	N/A	15 kg	

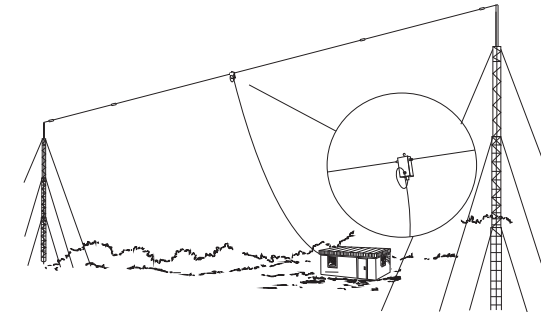27 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

Includes:-
- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors and UHF to N-type adaptor

Note:- Ground catenary and masts illustrated not provided.

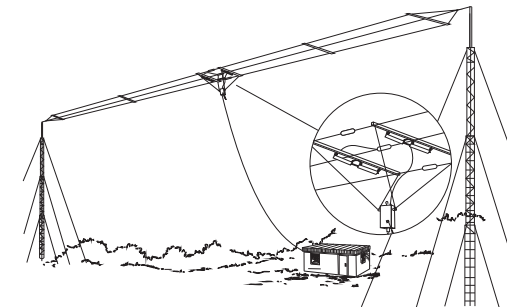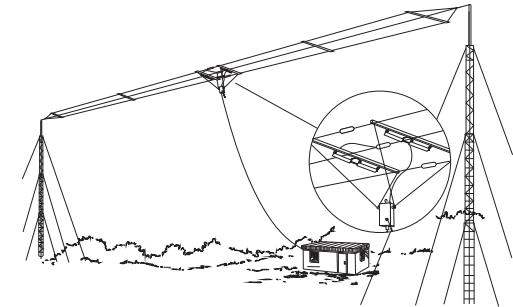|	Part Number	Packaging Type	Net Weight	
912 Multi-wire broadband dipole (2 - 30 MHz) - 1 kW continuous	BC91207	N/A	25 kg	

54 metres stainless steel, fibreglass spreaders and encapsulated baluns and loads.

Includes:-
- 30 metres of RG-213 coaxial cable with waterproof UHF coaxial connectors and UHF to N-type adaptor

Note:- Ground catenary and masts illustrated not provided.
        This antenna requires minimum 15M Lattice masts to handle the forces to lift into horizontal
        configuration. We do not recommend inverted "V" configuration for this antenna.

Accessories

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4000 **Series Catalogue**

	Part Number	Packaging Type	Net Weight	
" E " plate (earth plate)	BCA91700	N/A	N/A	

Is a grounding plate which is mounted to the bottom of the boat to ensure adequate/effective grounding.

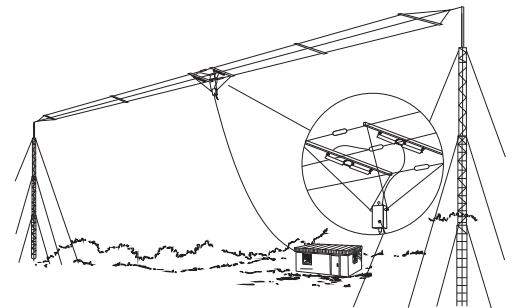|	Part Number	Packaging Type	Net Weight	
Insulator - feed through	BCA91701	N/A	N/A	

To feed high voltage leads through decks / walls to 35 mm thickness.

	Part Number	Packaging Type	Net Weight	
Insulator - back stay	BCA91702	N/A	N/A	

To insulate the back stay of a yacht to use as an HF antenna - up to 1100 kg strain.

	Part Number	Packaging Type	Net Weight	
Copper earth strap (per metre)	BCA91703	N/A	N/A	

For RF earthing between antenna tuner, transceiver and "E" plates or other earthing points
- 50 mm x 0.5 mm.

	Part Number	Packaging Type	Net Weight	
Radial earth mat / ground plane	BCA20026	N/A	N/A	

Counterpoise to use with whip in fixed high power base station applications
12 x 10 metres radials.
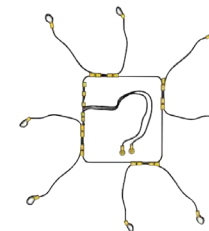
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4075 High power HF transmitter

BARRETT

4000 **Series Catalogue**

4075 HF High power transmitter

	Part Number	Packaging Type	Net Weight	
4075 HF High power transmitter package 20 RU - 1 Kw	BC407510	N/A	172 kg	

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

* For additional options and accessories, please see relevant section detail.

Note :- See brochure for more detailed information.

Includes:-

20U desk mount rack	BCA407522			
4050 HF SDR	BC405000			
4022 Power supply	BC402200			
Linear amplifier	BC407501			
Fan unit	BCA40002			
Rack mount kit	BCA40007			
Linear power supply 48V	BC407502			
Power distribution (power cable unterminated)	BCA407520			
BOB and relay block assembly	SA-40758			
Breakout box (BOB)	BCA40050			
Barrett BOB manual - USB	USB-40050			

BARRETT

4000 Series Catalogue

4075 HF High power transmitter

	Part Number	Packaging Type	Net Weight	
4075 HF High power transmitter package 39 RU - 1 Kw	BC407511	N/A	258 kg	

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

* For additional options and accessories, please see relevant section detail.

Note :- See brochure for more detailed information.

Includes:-

39U desk mount rack	BCA407523			
4050 HF SDR	BC405000			
4022 Power supply	BC402200			
Linear amplifier	BC407501			
Fan unit	BCA40002			
Rack mount kit	BCA40007			
Linear power supply 48V	BC407502			
Power distribution (power cable unterminated)	BCA407520			
BOB and relay block assembly	SA-40758			
Breakout box (BOB)	BCA40050			
Barrett BOB manual - USB	USB-40050			

BARRETT

4000 **Series Catalogue**

4075 HF High power transmitter

	Part Number	Packaging Type	Net Weight	
4075 HF High power transmitter package 20 RU - 500 W	BC407512	N/A	172 kg	

High power transmitters require high quality earthing systems and it is recommended that lightning arrestor kits are used on RF coaxial feeders. Details of required earthing systems are available from our technical service department and are supplied in the operation and installation manual.

* For additional options and accessories, please see relevant section detail.

Note :- See brochure for more detailed information.

Includes:-

20U desk mount rack	BCA407522			
4050 HF SDR	BC405000			
4022 Power supply	BC402200			
Linear amplifier	BC407500			
Fan unit	BCA40002			
Rack mount kit	BCA40007			
Linear power supply 48V	BC407502			
Power distribution (power cable unterminated)	BCA407520			
BOB and relay block assembly	SA-40758			
Breakout box (BOB)	BCA40050			
Barrett BOB manual - USB	USB-40050			

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	Part Number	Packaging Type	Net Weight	
Linear amplifier 500W	BC407500	N/A	30 kg	

The Barrett 4075 500W linear amplifier is designed for modern communications which are heavily data orientated, requiring amplifiers to work at high duty cycles for extended periods of time. The unique liquid cooled design increases efficiency with less deterioration on the system due to heat power stages.

	Part Number	Packaging Type	Net Weight	
Linear amplifier 1kW	BC407501	N/A	35 kg	

The Barrett 4075 1 kW linear amplifier is designed for modern communications which are heavily data orientated, requiring amplifiers to work at high duty cycles for extended periods of time. The unique liquid cooled design increases efficiency with less deterioration on the system due to heat power stages.

	Part Number	Packaging Type	Net Weight	
4075 power supply	BC407502	N/A	8.8 kg	

Compact, 1U high power density. Output voltage 48V. Maximum power 1008W. Built-in fan speed control circuit. The fan speed will be adjusted according to the magnitude of output load.

Accessories

BARRETT

4000 **Series Catalogue**

	Part Number	Packaging Type	Net Weight	
AC power distribution box	BCA407520	N/A	5.85 kg	

Unit used for the reticulation of power in Barrett 39U and 20RU racks. Typically used as the mains power distribution component of a 4075 transmitter system.

Note:- When used in a Barrett 4075 Rack, it is supplied wired into the 4075 Junction Box.

	Part Number	Packaging Type	Net Weight	
Junction box	BCA407521	N/A	1.80 kg	

Electrical junction box which allows termination of external, single phase, power cables into Barrett 39U and 20RU racks. Typical use is a single gland entry version for single 4075 transmitter systems and dual gland entry for dual 4075 transmitter systems.

Note:- This unit is required for 110V single phase mains supply only.

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	Part Number	Packaging Type	Net Weight	
39U floor mount 19" rack - colour black	BCA407523	N/A	58 kg	

39U floor standing 19" rack, with back door.

	Part Number	Packaging Type	Net Weight	
20U desk mount 19" rack - colour black	BCA407522	N/A	36.80 kg	

20U floor and desk mounted 19" rack, with back door.

Accessories

		4000 Series Catalogue	Part Number	Packaging Type	Net Weight	

	Part Number	Packaging Type	Net Weight	
4U table top rack mounting cabinet	BCA407524	N/A	2.0 kg	

Our standard range of small 19" cabinets are 450mm deep and suitable for remote control table top applications and small equipment cabinet requirements. Optional front and rear doors if required.

	Part Number	Packaging Type	Net Weight	
6U table top rack mounting cabinet	BCA407525	N/A	2.20 kg	

Our standard range of small 19" cabinets are 450mm deep and suitable for remote control table top applications and small equipment cabinet requirements. Optional front and rear doors if required.

	Part Number	Packaging Type	Net Weight	
8U table top rack mounting cabinet	BCA407526	N/A	2.40 kg	

Our standard range of small 19" cabinets are 450mm deep and suitable for remote control table top applications and small equipment cabinet requirements. Optional front and rear doors if required.

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4000 **Series Catalogue**

	Part Number	Packaging Type	Net Weight	
19" Rack mounting kit with microphone and speaker	BCA407527	N/A	2.20 kg	

19" Rack tray with control head and speaker.

Includes:-
- Data cable P/N BCA40051
- Screw kit for mounting Transceiver/ Power supply unit.

Note: Front Control Panel Pictured not supplied.

	Part Number	Packaging Type	Net Weight	
19" Standard rack mount kit for 4050/4022	BCA40007	N/A	2.0 kg	

Standard rack mount tray for 4050/4022.

Includes:-
- Screw kit for mounting Transceiver/ Power supply unit.

Accessories

	Part Number	Packaging Type	Net Weight	

19" Rack mount front panel with microphone and speaker

| | BCA407528 | N/A | 1.60 kg | |

Rack mount front panel with microphone and speaker.

Includes:-
- Data cable P/N BCA40051
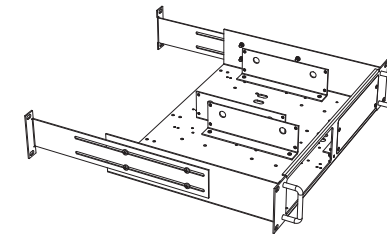
Note: Front Control Panel Pictured not supplied.

19" Rack mount kit 2 RU 2000 series

| | BCA20017 | N/A | 2.0 kg | |

To suit 2000 series products.

Includes:-
- Screw kit for mounting Transceiver/ Power supply unit.

Lightning arrestor 1 Kw

| | BCA207503 | T1 & C6 | 2.45 kg | |

Includes:-
- 1 x Surge arrestor with SO239/UHF (female) connectors
- 1 x 5 metres length of RG213 Coaxial cable with PL259/UHF (male)
- 1 x Steel dolly
- 1 x 3 metres earth braid
- 1 x Brass cable clamp assembly
- 1 x Copper plated steel earth rod
- 1 x Earthing cable P/N SA-00003

Spare kits

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4000 Series Catalogue

	Part Number	Packaging Type	Net Weight	
SDR Micro complete	BCS40001	C4	0.6 kg	

SDR Micro board complete.

	Part Number	Packaging Type	Net Weight	
SDR PA complete on chassis	BCS40003	C6	1.50 kg	

The PA is supplied mounted on the top cover heat sink.

4050 Transceiver component spares kit	BCS40004	C4	0.6 kg	

Discrete component spares based on one transceiver for 5 years operation.

4050 Control Head complete	BCS40005	C4	0.6 kg	

Complete 4050 Control Head setup.

4022 Interface boards	BCS40008	C4	0.6 kg	

4022 Power supply LED PCB and main control complete.

4022 Power supply main module (12V/24V)	BCS40009	C4	0.6 kg	

4022 Main switch mode power supply module.

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Manuals and documents

BARRETT | 4000 **Series Catalogue**

	Part Number	Packaging Type	Net Weight	
4050 HF SDR Operation/ installation Manual	BCM40500		0.3 kg	
4050 HF SDR Operating/ installation manual				
4022 Power supply Operation/ installation Manual	BCM40220		0.3 kg	
4022 Power supply Operating/ installation manual				
4050 Breakout Box Manual - USB	USB-40050		0.6 kg	
Manual on USB				
4075 High power 1 kW HF Transmitter Operation/ installation Manual	BCM407500		0.3 kg	
4075 High power 1 kW HF Transmitter Operation/ installation manual				
4017 Automatic tuning horizontal dipole user manual	BCM401700		0.3 kg	
4017 Automatic tuning horizontal dipole user manual				
4011 Automatic antenna tuner user manual	BCM401100		0.3 kg	
4011 Automatic antenna tuner user manual				

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	Part Number	Packaging Type	Net Weight	
4075 High power 1 kW HF Transmitter Brochure	BCB40750		0.1 kg	
A4 colour brochure				
4050 HF SDR Brochure	BCB40500		0.1 kg	
A4 colour brochure				
4011 Automatic antenna tuner Brochure	BCB40110		0.1 kg	
A4 colour brochure				
4017 Automatic tuning horizontal dipole Brochure	BCB40170		0.1 kg	
A4 colour brochure				

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4000 Series Catalogue

Package type	Description	Length	Width	Depth
C1	Large carton	54 cm	39 cm	22 cm
C2	2000 Series carton	54 cm	39 cm	17 cm
C3	Standard Dangerous Goods carton	54 cm	39 cm	17 cm
C4	OEM carton	25 cm	18 cm	7 cm
C5	Antenna carton	90 cm	22 cm	22 cm
C6	OEM carton - Accessories	36 cm	25 cm	9 cm
C7	Small Dangerous Goods carton	30 cm	18 cm	18 cm
C8	Very large carton	53 cm	39 cm	35 cm
SC1	Shipper with 3 x C1 or 4 x C2	56 cm	40 cm	70 cm
SC3	Shipper with 2 x C8	56 cm	40 cm	47 cm
T1	Antenna tube section	150 cm	5 cm	5 cm
T3	Antenna tube section	220 cm	5 cm	5 cm
T4	NVIS tube section	350 cm	5 cm	5 cm
T5	Antenna tube section	250 cm	10 cm	10 cm

Note:- 1. The dimensions shown may vary from time to time depending on consignment circumstances.
2. For all shipments, we comply with IATA regulations and charge the greater of either volumetric weight.