BARRETT
a Motorola Solutions Company

COMMERCIAL CATALOGUE













www.barrettcomms.com
BCPC4000/18

ISO 9001
BUREAU VERITAS
Certification

Established in 1976 Barrett Communications designs, manufactures and markets HF and VHF radio equipment for specialised, autonomous, medium and long distance radio communications. HF and VHF radio communications is “free to air”; having no recurring usage charges once the communications network has been installed.

Barrett radio networks are capable of providing voice, email, data, fax, and tracking solutions for fixed base station, mobile and manpack portable applications. Our global distribution and customer support network provides easy access and backup for our customer base in over 150 countries globally.

BARRETT

Contents

4000 Series HF Transceivers	5
Hardware and Software Options	21
HF Data Transmission Options	29
Interface Packs	37
Hardware Accessories	41
4022 Power supply and Accessories	51
Solar power supply systems	55
Antennas, masts, whips and marine accessories	59
Interoperability	79
Transportable Systems	83
4075 High power HF transmitter	87
Training packages	91
Spare kits	95

Notes:-
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.

This page intentionally left blank

4000 Series HF Transceivers

	Part Number	Net Weight
4050ip HF SDR Transceiver	BC405000ip	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket



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







Notes:-
- For Base/Mobile configuration See P/N BC405010/11ip
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.

Includes:-

1	4050ip HF SDR Transceiver	BC405000ip	
2	Hand microphone and clip with channel up/down buttons	BCA40010	
3	Loudspeaker	BCA40015	
4	DC power cable and connector - 1.2 metres	BCA40041	
5	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050ip HF SDR Base Station Package	BC405010ip	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket



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





Note:- See brochure & catalogue accessories for more detailed information.

Includes:-

1	4050ip HF SDR Transceiver	BC405000ip
2	4022 Power supply	BC402201
3	Hand microphone and clip with channel up/down buttons	BCA40010
4	Power supply stacking cradle	BCA40016
5	Barrett 4050 Operation and installation manual	BCM40500

	Part Number	Net Weight
4050ip HF SDR Mobile Station Package	BC405011ip	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)
- Ethernet (IP) connection via RJ45 socket



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





Note:- See brochure & catalogue accessories for more detailed information.





Includes:-

1	4050ip HF SDR Transceiver	BC405000ip	
2	Hand microphone and clip with channel up/down buttons	BCA40010	
3	Loudspeaker	BCA40015	
4	DC power cable and connector - 6 metres	BCA40006	
5	Mobile Pack	BCA40501	
6	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050ip HF SDR (Receiver only)	BC405001ip	

Stan**dard features:-**
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 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
- Ethernet (IP) connection via RJ45 socket

1



2



3



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

Notes:-
- Loudspeaker, AC/DC power supply and Rack Mounting kits need to be ordered separately.
- See brochure & catalogue accessories for more detailed information.

Includes:-

1	4050ip HF SDR Receiver	BC405001ip	
2	DC power cable and connector - 1.2 metres	BCA40041	
3	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050ip HF SDR Transceiver with Control Handset	BC405002ip	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- ED-137c VoIP Interoperability
- Ethernet (IP) connection via RJ45 socket



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





Notes:-
- For Mobile configuration See P/N BC405012ip
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- For WiFi connectivity, Interface Pack C (P/N 4090-01-27) required.
- See brochure & catalogue accessories for more detailed information.





Includes:-

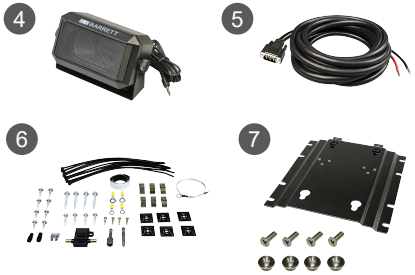
1	4050ip HF SDR Transceiver body	BC405002ip	
2	4050 Control Handset	BCA40500	
3	4050 Control Handset Interface Cable (5m)	BCA40502	
4	Loudspeaker	BCA40015	
5	DC power cable and connector - 6 metres	BCA40006	
6	Magnetic Car Mount	BCA40507	
7	Barrett 4050 Operation and installation manual	BCM40500	

4050ip HF SDR Transceiver with Control Handset Mobile Station package	Part Number: BC405012ip	Net Weight:

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- 500 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- ED-137c VoIP Interoperability
- Ethernet (IP) connection via RJ45 socket



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



Notes:-
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- For WiFi connectivity, Interface Pack C (P/N 4090-01-27) required.
- See brochure & catalogue accessories for more detailed information.



Includes:-

1	4050ip HF SDR Handset Control Transceiver	BC405002ip
2	4050 Control Handset	BCA40500
3	4050 Control Handset Interface Cable (5m)	BCA40006
4	Loudspeaker	BCA40015
5	DC power cable and connector - 6 metres	BCA40006
6	Installation Kit	BCA40004
7	Universal Mounting Cradle	BCA40003
8	Magnetic Car mount	BCA40507
9	Barrett 4050 Operation and installation manual	BCM40500

	Part Number	Net Weight
4050se HF SDR Transceiver	BC405000se	

Standard features:-
- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)



Optional features include:-
- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)







Notes:-
- For Base/Mobile configuration See P/N BC405010/11se
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.

Includes:-

1	4050se HF SDR Transceiver	BC405000se
2	Hand microphone and clip with channel up/down buttons	BCA40010
3	Loudspeaker	BCA40015
4	DC power cable and connector - 1.2 metres	BCA40041
5	Barrett 4050 Operation and installation manual	BCM40500

4050se HF SDR Base Station Package	Part Number: BC405010se	Net Weight

Standard features:-
- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)



Optional features include:-
- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)





Note:- See brochure & catalogue accessories for more detailed information.

Includes:-

1	4050se HF SDR Transceiver	BC405000se	
2	4022 Power supply	BC402201	
3	Hand microphone and clip with channel up/down buttons	BCA40010	
4	Power supply stacking cradle	BCA40016	
5	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050se HF SDR Mobile Station Package	BC405011se	

Standard features:-
- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)
- Digital Selective Calling
- GPS enabled (Hardware required)



Optional features include:-
- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- GPS Push
- IP Connectivity (via USB only)





Note:- See brochure & catalogue accessories for more detailed information.





Includes:-

1	4050se HF SDR Transceiver	BC405000se	
2	Hand microphone and clip with channel up/down buttons	BCA40010	
3	Loudspeaker	BCA40015	
4	DC power cable and connector - 6 metres	BCA40006	
5	Mobile Pack	BCA40501	
6	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050se HF SDR Transceiver with Control Handset	BC405002se	

Standard features:-
- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- ED-137c VoIP Interoperability

Optional features include:-
- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- IP Connectivity (via USB only, requires Interface Pack C P/N 4090-01-27)

Notes:-
- For Mobile configuration See P/N BC405012se
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.











Includes:-

1	4050se HF SDR Transceiver body	BC405002se	
2	4050 Control Handset	BCA40500	
3	4050 Control Handset Interface Cable (5m)	BCA40502	
4	Loudspeaker	BCA40015	
5	DC power cable and connector - 6 metres	BCA40006	
6	Magnetic Car Mount	BCA40507	
7	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4050se HF SDR Transceiver with Control Handset Mobile Station package	BC405012se	

Standard features:-
- 200 channels with frequency range 1.5 to 30 MHz
- 300 contact entries
- Power Output 10/30/125/150 Watt, Power input 12/24V DC nominal
- Software defined core & DSP
- Modes USB/LSB/CW/AM/CF (Custom Filter)/ISB (Data)
- Digital Selective Calling
- GPS enabled (Hardware required)
- ED-137c VoIP Interoperability

Optional features include:-
- 2G ALE
- Secure call
- Frequency hopping
- Digital voice
- Secure Digital Voice & GPS Push
- ARINC
- IP Connectivity (via USB only, requires Interface Pack C P/N 4090-01-27)

Notes:-
- AC/DC power supply (BC402201) and Rack Mounting kits need to be ordered separately
- See brochure & catalogue accessories for more detailed information.



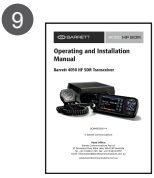












Includes:-

1	4050se HF SDR Handset Control Transceiver	BC405002se	
2	4050 Control Handset	BCA40500	
3	4050 Control Handset Interface Cable (5m)	BCA40502	
4	Loudspeaker	BCA40015	
5	DC power cable and connector - 6 metres	BCA40006	
6	Installation Kit	BCA40004	
7	Universal Mounting Cradle	BCA40003	
8	Magnetic Car Mount	BCA40507	
9	Barrett 4050 Operation and installation manual	BCM40500	

	Part Number	Net Weight
4090 HF SDR manpack package	BC409002	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 30 W PEP, power input 22 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

Optional Features*:-
- ECCM Options (COMSEC/TRANSEC)
- MILSTD 188-141B ALE (JITC certified)
- Internal fit high speed modem

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

Note:- See brochure for more detailed information.
- IEC mains cord (UK, European, AUS and US style* Selected at point of order)











Includes:-

1	4090 HF Tactical manpack transceiver	BC409001	
2	4090 Control handset	BCA409001	
3	4090 Handset Cradle and Molle strap	4090-05-04	
4	Control Handset cable 1.2 metres	4090-01-12	
5	4090 Li-ion Battery Pack 16Ah	BCA409005	
6	Collapsible Whip 3m - for 4090	4090-02-10	
7	Gooseneck - for 4090	4090-02-11	
8	Counterpoise earth kit - single wire	4090-02-09	
9	Long wire throw out antenna	4090-02-06	
10	AC/DC Mains Adapter for use with 4090-03-05 Battery Pack	4090-03-04	
11	4090 operating and installation manual	BCM409000	

	Part Number	Net Weight
4090 HF SDR Tactical transceiver	BC409001	

Standard features:-
- 1000 channels with frequency range 1.5 to 30 MHz
- Power output 10 - 30 W PEP, power input 22 VDC nominal
- Software defined core & DSP
- Digital Selective Calling & Telcall - 4 & 6 digit
- GPS & RS232 interface
- Meets MIL-STD 810G for shock, temperature, vibration, dust and immersible to 1 m for 1 hr

1



Optional Features*:-
- ECCM Options (COMSEC/TRANSEC)
- MILSTD 188-141B ALE (JITC certified)
- Internal fit high speed modem

2



3



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

4



Note:- See brochure for more detailed information.
- Battery not included in this package.

Includes:-

1	4090 HF Tactical manpack transceiver	BC409001	
2	4090 Control handset	BCA409001	
3	Control handset cable 1.2 metres	4090-01-12	
4	Barrett 4090 operation and installation manual	BCM409000	

This page intentionally left blank

Hardware and Software Options

	Part Number	Net Weight
2G Automatic link establishment (ALE)	See below	N/A

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

Includes:-
- 2G/3G ALE Operation manual P/N BCM40524

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 4090-01-30.

Internal Fit



To suit 4050	BCO40501	
To suit 4090	4090-01-03	

3G Automatic link establishment (ALE)	4090-01-04	N/A

3rd generation to STANAG 4538.

Includes:-
- 2G/3G ALE Operation manual P/N BCM40524

Note:- One transceiver must be fitted with GPS per network to allow ALE3G synchronous operation.

Internal Fit



Secure call	4090-01-02	N/A

A point to point or point to multipoint Secure call system initiated a secure call selcall.

Internal Fit



	Part Number	Net Weight
Frequency hopping	4090-01-01	N/A

5 or 25 hops per second - no central synchronisation station, no net entry delay or late entry delay.

Notes:-
- ESU/GPS to be purchased separately.
- Requires an Australian Government Export Licence.

Internal Fit



Digital voice module: DV	See below	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

Internal Fit



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

To suit 4050	BCO40505	
To suit 4090	4090-01-42	
Free Scroll Tx/Rx	4090-01-28	N/A

Allows voice transmission while using the Free Scroll Rx feature of Barrett 4050 and 4090 transceivers.

Internal Fit



Remote Access Option	BCO40530se	N/A

Used with the 4050se model, this option allow use with software such as Barrett 4000 Series Remote Control Software and external accessories such as the 4020 HF Radio Mailbox.

Internal Fit



	Part Number	Net Weight
Secure digital voice module with DES 56 encryption - SDV-56	4090-01-41	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

Notes:-
- Factory internal fit only
- This option requires key management and configuration load software P/N 4090-01-51 for 4050,
- Can be implemented with Mil Data standards
- This option does not require an Australian Government Export Licence

	Part Number	Net Weight
Secure digital voice module with AES 256 encryption - SDV-256	4090-01-40	N/A

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



Includes:-
- "TWELP/MELP" Vocoder to be specified at time of order
- Clear Digital Voice
- HF Internal digital voice operation manual P/N BCM40504

Notes:-
- Factory internal fit only
- This option requires key management and configuration load software P/N 4090-01-50 for 4050,
- Can be implemented with Mil Data standards
- This option requires an Australian Government Export Licence

	Part Number	Net Weight
Key Management and Configuration Load software DES 56	4090-01-51	0.02 kg

For use with SDV-56 - P/N 4090-01-41

Includes:-
- Key Management and Configuration Load - DES 56 software P/N BCUSB40521



Note: Interface Pack Required See Page 39

Key Management and Configuration Load software AES 256	4090-01-50	0.02 kg

For use SDV-256 - P/N 4090-01-40

Includes:-
- Key Management and Configuration Load - AES 256 software P/N BCUSB40520



Note: Interface Pack Required See Page 39

Wifi Adaptor	BCO40508	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 P/N BCM40507
- Penguin WiFi adaptor



ARINC Selcall encoder	BCO40509	N/A

Enables transmission of aviation ARINC standard selcall.



	Part Number	Net Weight
4000 Series HF Remote Control Software (Windows)	BCO40516	0.80 kg

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

Includes:-
- 4000 Series Remote Control Software for Windows on USB
- Buddy desktop microphone P/N BCA40017
- Desktop headphone P/N BCA40018

Note:- Remote access option must be enabled.







4000 Series HF Programming Software	4090-01-30	0.02 kg

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

Note:- Remote access option recommended for remote configuration to 4000 Series HF Programming Software.



Note: Interface Pack Required See Page 39

4077 HF Map & Track	BC407700	0.02 kg

Includes:-
- 4077 HF Map & Track Software on USB
- 4077 HF Map & Track Manual P/N BCM407700

Requires:-
- GPS Receiver
- GPS Push Option



Note: Interface Pack Required See Page 39

GPS Push	4090-01-48	N/A

Enables the 4050/4090 to automatically push GPS transmissions to a receiver program such as 4077 HF Map & Track.

Internal Fit



This page intentionally left blank

HF Data Transmission Options

	Part Number	Net Weight
RC-50B Strategic Email System	4090-04-66	0.25 kg

4027 RC50-B STANAG 5066 Email is designed for operator requiring interoperability with existing 2nd generation HF Email networks. STANAG 5066 ARQ and the MILSTD-188-110B compliant data modem provides standardised Email transmission over HF networks.
Email messages are sent and received using well known email clients such as MS Outlook™.



Note: Interface Pack Required
See Page 39

Includes:-
- PC Software for 4027 RC50-B STANAG 5066 Email

Notes:-
- **Requires** HF MIL 110B Stanag 4539 9600bps Modem
- Requires 2G ALE - Automatic Link Establishment option for Link set up P/N 4090-01-04
- Requires 3.0 kHz bandwidth selection for 9600bps operation
- Does NOT include encyption as standard - See option P/N 4090-01-41

4038 3G TAC Message Software (Win)	4090-04-38	0.25 kg

4038 3G TAC Message is designed with strategic and naval HF operators in mind. 4038 3G TAC Message provides HF communications with a familiar smartphone-like user experience on a PC or Laptop. Chat Messaging and File Transfer are available from a convenient and easy to use interface. Email messages can be sent and received using well known email clients such as MS Outlook™. Data communications on the HF network benefit from the robust STANAG 4538 3G packet modem.



Note: Interface Pack Required
See Page 39

Includes:-
- PC Software for 4028 3G TAC Message
- Barrett 3G System Configuration Software
- Key Management Software
- System Configuration Software
- Configuration Load Software

Notes:-
- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04
- Requires BCO40502 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-56 DES/AES Encryption options

	Part Number	Net Weight
4078 3G TAC Command Software (Win)	4090-04-78	0.25 kg

4078 3G TAC Command is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.



Note: Interface Pack Required
See Page 39

Includes:-
- TAC Command Tracking and Message Gateway
- Key Management Software
- System Configuration Software
- Configuration Load Software

Notes:-
- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04
- Requires 4090-01-04 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-50/51 AES/DES Encryption options

4079 3G TAC Command Centre (Win)	4090-04-79	0.25 kg

4079 3G TAC Command Centre is designed with military commanders in mind. The software is designed for touch-screens and lends itself to be used on rugged tablets. Situational Awareness using NATO standardised symbols provides the operator with a view of friendly unit positions (Blue Force Tracking), enemy contacts, reference points and geo-fences. Chat Messaging, Email Messaging, Form Messaging and File Transfer is also provided.



Note: Interface Pack Required
See Page 39

Includes:-
- TAC Command Centre Tracking and Message Centre Gateway
- Key Management Software
- System Configuration Software
- Configuration Load Software
- Ethernet Cable 2m P/N 4090-01-49

Notes:-
- Requires 3G HF Packet Data modem (9600bps) P/N 4090-04-04
- Requires 4090-01-04 3G ALE - Automatic Link Establishment option for Link Set up
- See also 4090-01-50/51 AES/DES Encryption options

	Part Number	Net Weight
3G Packet Data Modem (9600bps)	4090-04-04	N/A

Includes:-
Internal Fit modem, 9600bps
Notes:-
Requires 3G Automatic link establishment (P/N 4090-01-04).



Internal Fit Data Modem with Mil 110A/B Waveform	See Below	0.20 kg

Includes:-
- HF MIL110B 9600bps Modem
- Barrett DataPoint 110A/B Interface software

Note:-
- Requires third party HF Data communications software for file/chat data transfer between HF stations





Note: Interface Pack Required See Page 39

To suit 4050	BC405026
To suit 4090	4090-04-26

Internal Fit Data Modem with Mil 110A/B/F ISB Waveform	4090-04-27	0.20 kg

Includes:-
- HF MIL110B/F 75-19200bps Modem
- Barrett DataPoint 110A/B/F Interface software

Note:-
- Requires third party HF Data communications software for file/chat data transfer between HF stations
- Compatible with 2G ALE (P/N) and RC50-B Communications Software Suite (P/N 4090-04-66)



Note: Interface Pack Required See Page 39

Software upgrade from MIL110A 2400Bps to MIL110B 9600Bps	BCO405025	0.10 kg

Software upgrade from MIL110A 2400Bps to MIL110B 9600Bps

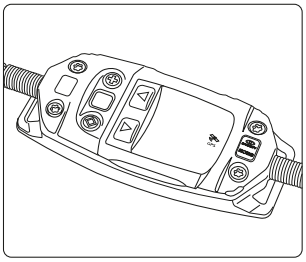
Includes:-
- Barrett upgrade software from MIL110A 2400Bps to MIL110B 9600Bps



Note:-
- Requires third party HF Data communications software for file/chat data transfer between HF stations

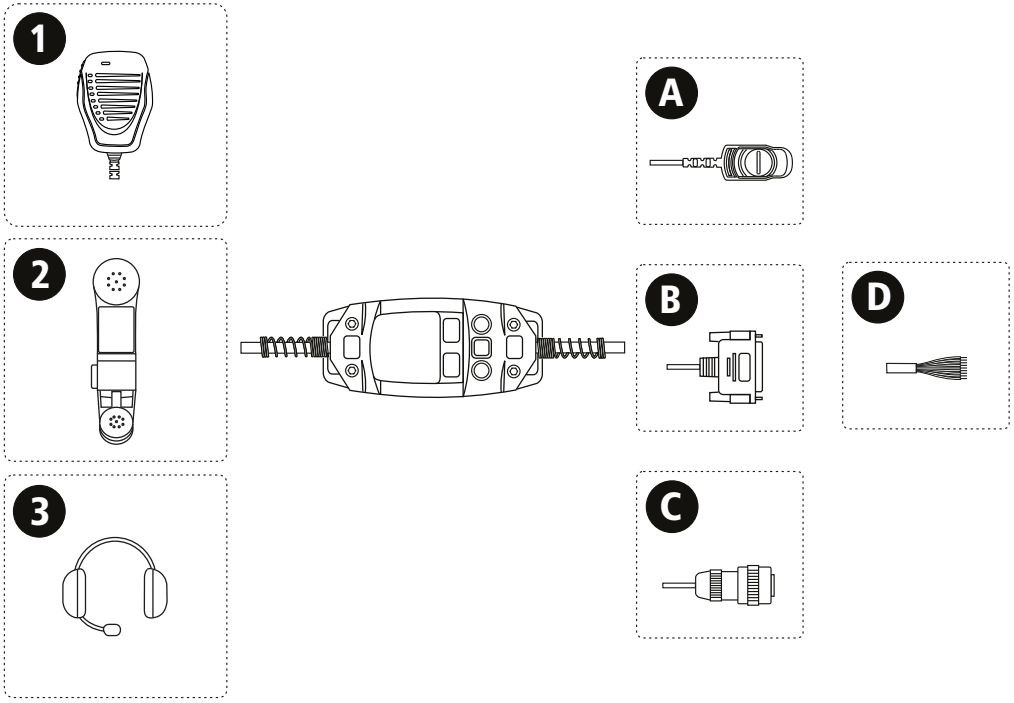
	Part Number	Net Weight
Barrett 2066 HF In-line Voice and Position Encrypter	BC206600	0.5 kg

The Barrett range of In-Line Voice and Position Encryptors are high performance, digital, in-line secure voice modems with built-in GPS. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with HF radio transceivers via the audio or accessory interface, the units are suitable for use with hand-held, man-pack and vehicular radio equipment. Black.



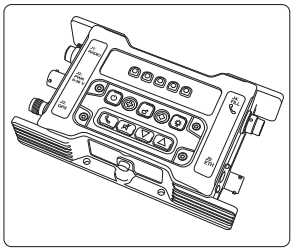
Connector options:
1. Speaker Michrophone
2. H250 Handset
3. Headset with Microphone

A. Hotshoe connector for connection to a 4090/PRC-4090 HF Transceiver
B. DB-25 connector for connection to a 4050 HF SDR Transceiver
C. Mil Connector for connection to a 2090/PRC-2090 Transceiver
D. Unterminated connection



	Part Number	Net Weight
Barrett 2067 HF Vehicular/Base Voice and Position Encrypter	2067-10-60	0.55 kg

The Barrett Voice and Position Encrypters are high perfomance, digital, secure voice modems. They are suitable for first responders, security agencies, governmental and paramilitary users with voice privacy and asset tracking. Easily integrating with HF radio transceivers via the audio or accessory interface, the units are suitable for use with base station and vehicular radio installations.



Please contact Barrett Communciations for further information.

This page intentionally left blank

Interface Packs

	Part Number	Net Weight
Interface Pack A	4090-01-49	

For IP connectivity with a RJ45 fitted 4050 transceiver, or PRC-4090 in Mobile or Base Station setup.

Includes:
Ethernet cable 2m



Interface Pack B	4090-01-32	0.08

Provides serial connection to a PC from a 4090 or PRC-4090 Manpack.

Includes:
PRC-4090 Hotshoe to USB Cable



Interface Pack C	4090-01-27	0.02

USB Interface Unit to suit a 4090/4050 Control Handset.

Includes:
- Handset USB Interface (4090-01-27)



Interface Pack D	BCA40019	

For a serial connection between a 4050 (all types) and a PC.

Includes:
- Serial cable for 4050 Transceiver with 9/25 pin adapters P/N BCA90023
- USB to Serial adapter P/N BCA92318





This page intentionally left blank

Hardware Accessories

	Part Number	Net Weight
Mobile pack for 4050 transceiver	BCA40501	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



4050 to Ethernet Adapter with USB Ports	BCA40504	0.05 kg

DB15 to IP connection for a 4050. Connects to the rear of a 4050 transceiver.



USB to Ethernet Adapter	BCA40505	0.02 kg

USB adaptor for IP connectivity for 4050 or 4090.



PRC-4090 Handset USB Interface	4090-01-27	0.01 kg

USB interface to rear of the PRC-4090 Control Handset. Provides an access point for WiFi dongles and USB programming.
Attaches via hotshoe connector.



PRC-4090 Hotshoe to GPS/CW Cable	4090-01-31	0.06 kg

Hotshoe connection between top of PRC-4090 transceiver and a GPS or CW key connection.
Connects to external 7 pin GPS receiver or CW key.
Length 0.3 metres



	Part Number	Net Weight
PRC-4090 Hotshoe to USB Cable	4090-01-32	0.08 kg

Hotshoe interface between top of PRC-4090 transceiver and USB.
Length 1.5 metres



3 Port Accessory Hub	4090-01-39	0.17 kg

Hotshoe interface for a 4090 with GPS, CW key and USB connectors.
Length 60cm



GPS/ESU receiver	See below	0.15 kg

Combined receiver / antenna.
Includes:-
- 4 metres cable and connector.

For use with 4090, Hotshoe to GPS/CW cable (P/N 4090-01-31) required.



To suit 4050	BCA40009
To suit 4090	4090-01-24

GPS/ESU extender cable for 4050 - 8m	BCA40523	0.15 kg

Includes:-
- 8 metres GPS Extension cable with bulkhead connector for extending Barrett external GPS/ESU



4050 Control Head	BCS40005	0.6 kg

Secondary Control head for the 4050 HF SDR Transceiver



	Part Number	Net Weight
Remote head interface cable for 4050 - 6m	BCA40005	0.55 kg
For 4050 Transceivers.		



Control Handset	See below	0.26 kg
Control Handset for 4090 HF SDR Transceiver. Full colour LED touch screen display. Full radio control. Requires 4090 Control Handset Cable (4090-01-12) or 4050 Control Handset Cable (P/N BCA40502).		



To suit 4050	BCA40500	
To suit 4090	BCA409001	
4090 Control Handset Cable	4090-01-12	0.15 kg
Interface cable between the 4090 Control Handset and the transceiver. Hotshoe secured with screws. ODU connector. 1.2m		



4050 Control Handset Cable	BCA40502	0.25 kg
Interface cable between the 4050 Control Handset and the transceiver. Includes in-line speaker input. Hotshoe secured with screws. DB-15 connector. 6m.		



4090 Control Handset Extender Cable - 6.0 metres	4090-01-13	0.25 kg
Extension cable that securely fastens between the 4090 Control Handset Cable (P/N 4090-01-12) and the 4090 Transceiver (P/N 4090-00-01). - 6m		



	Part Number	Net Weight
Magnetic Car Mount	BCA40507	0.05 kg

Control Handset magnetic mount for vehicle installations. Attaches to dashboard with choice of magnetic plate.



4090 Handset Cradle	4090-05-01	0.06 kg

Cradle to suit a 4090 Control Handset (P/N 4090-01-09). Black.



4090 Molle Mount	4090-05-02	0.06 kg

Molle mount attaches to the rear of the 4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.



4090 Handset Cradle with Molle Strap	4090-05-04	0.06 kg

Strap attaches to the rear of the 4090 Control Handset Cradle for attachment to webbing. Designed to fit with standard webbing configurations.



Loudspeaker	BCA40015	0.30 kg

Extension speaker with connector to suit 4050 Transceiver.



	Part Number	Net Weight
Hand microphone and clip with channel up/down buttons for 4050	BCA40010	0.20 kg

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



Desktop Console for 4050	BCA40020	1.6 kg

The Barrett Desktop console incorporates a 4050 Control head for full transceiver functionality via IP and for direct connectivity to transceiver. Features include Boom Microphone latching/ no latching PTT, USB Interface, Ethernet connection & Inbuilt Power supply.

Includes:-
- AC/DC Power Adapter P/N BCA40021
- Desktop Console manual P/N BCM40020
- IEC mains cord (UK, European, AUS and US style* Selected at point of order)

Note:- For direct transceiver connection, Use P/N BCA40005 6m control head cable available separately.



Lightweight tactical headset (under helmet)	4090-01-38	0.28 kg

Lightweight tactical headset, suited to under helmet mounting, with 6 pin H250 connector, speaker, microphone and clip on Press-To-Talk (PTT) button.
Colour black.



DC power cable and connector for 4050	BCA40006	1.50 kg

Power cable with DB-15 combination connector to suit 4050 Transceiver, 6m.



Power supply stacking cradle	BCA40016	0.30 kg

For 4050 Transceiver and 4022 power supply.



	Part Number	Net Weight
Universal mobile mounting plate for 4050	BCA40003	0.50 kg

Universal mobile mounting plate to suit 4050 Transceiver.



Fan unit to suit 4050 and 4090 Transceiver	4090-01-11	0.08 kg

Used to cool the transceiver. Automatically begins cooling the system when an internal temperature of 45 C is detected. Suggested for high duty cycle data transfer networks.
- Black.



Installation kit	BCA40004	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



Interference suppression kit	BCA40008	0.45 kg

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

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



CW key - lightweight	2090-01-07	0.40 kg

Brass CW key with leg strap and connector to suit Barrett transceiver.

For use with 4090, Hotshoe to GPS/CW cable (P/N 4090-01-31) required.



	Part Number	Net Weight
4090 Li-ion Battery Pack 16Ah	4090-03-05	2.50 kg

Lightweight Li-ion 16Ah battery pack. Compatible with 4090 transceiver.



AC/DC Mains Adapter	4090-03-04	0.50 kg

For use with PRC-4090 Battery Pack (P/N 4090-03-05)
Includes:
- Adapter
- IEC mains cord (available in UK, European, AUS and US styles. Selected at point of order)



External Battery Adapter	4090-03-11	0.01 kg

Used to connect the PRC-4090 Transceiver to a BB series battery via a Battery adaptor to BB series battery cable.
- Black.



BB-2590 Battery	4090-03-05	1.35 kg

Lightweight Li-ion external battery able to power the PRC-4090 transceiver via the External Battery Adaptor and Battery adaptor to BB series battery cable.



Cable, Battery adapter to BB series battery	4090-03-08	0.06 kg

Cable specifically to connect a BB series battery to the External Battery adaptor.



Day Pack - black	2090-01-37	1.0 kg

The Day Pack provides a compact carry bag solution for the 4090 manpack transceiver. With storage for essential items like antenna's, solar panel, GPS as well as a separate pouch for a water bladder and small rugged tablet.
There are external MOLLE fixing points if user specific pouches want to be added.





	Part Number	Net Weight
Dual Port Antenna Switch Unit	BCA40506	0.65 kg

For connection of two antennas to
a 4050 Transceiver.

Includes:-
- Connecting cables P/N BCA90028, 2065-00-06
- User guide P/N BCM40506



Multi coupler	BC407100	2 kg

This 1RU, 19" rack mountable multicoupler includes one RF input and 8 terminated(selectable) outputs
suitable for eight receivers sharing one antenna. Units are daisy-chainable to increase the number of
outputs for larger installations.

Includes:-
- Power cable P/N SA-42021

Note:- Excludes RF coaxial cabling. Use BCA97503 Coaxial RF Patch Lead – 1.0m per
(one cable required for each connected receiver)





RG58 Coaxial patch cable terminated with UHF (PL259) Connectors - 1.0m	BCA97503	0.10 kg

Note:- One cable required for each connected receiver.



4022 Power supply and Accessories

	Part Number	Net Weight
4022 Mains power supply 24V for 4050	BC402201	4.60 kg

Features:-
- 24 VDC output @ 18 Amps
- 100 to 240 V AC 50-60 Hz, 500 W input
- No-break battery backup facility
- Built in 5 Amp Charger
- Internal speaker





Note:- See brochure for more detailed information.

Includes:-

IEC mains cord (UK, European, AUS or US style* Selected at point of order)	SA-00020	
Power cable - 4022 to 4050	SA-42020	
Speaker cable	SA-45010	
4022 Mains power supply operation manual	BCM402200	

Battery backup cable 3 metres for 4022 Power supply	BCA402201	1.05 kg

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

Includes:-
- Universal battery lugs



100 Ah 12 V sealed solar block battery - (air-freightable)	BCA92203	32 kg

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



Cabling kit for paralleling batteries	BCA92208	0.35 kg

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

Consists of two heavy duty cables with lugs and two battery lugs.



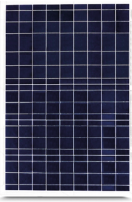
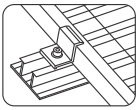
This page intentionally left blank

Solar power supply systems

Barrett Communications can design, cost, supply and provide logistics for solar power systems tailored to meet communications system and location requirements. However, solar power supply systems and their components varied and numerous. In the majority of cases it is more economically and logistically viable for customers to purchase solar power equipment in country.

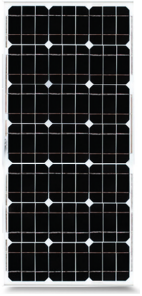
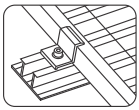
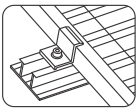
The systems below meet light, medium and heavy duty cycles in 12V and 24V battery bank options. These systems can be supplied by Barrett Communications or they can be used as a guide for typical installation requirements.

Please contact Barrett Communications for information regarding your specific solar power generation and storage requirements. Barrett can supply to meet requirements or make recommendations on purchasing equipment in country.

	Part Number	PKG Type	Net Weight
Solar power system for 90/10 RX/TX (Light Duty Cycle - 48 hour operation**)	See below	N/A	N/A
Solar kit:- - Solar Panel (Victron) -175W-12V Poly 1485 x 668 x 30mm - Victron Smart Solar charge Regulator 75/15 15A 12/24V - Mounting rails and brackets * (see note below) - Panel to Regulator wiring and Plug kit	BC202201		
12V Battery option:- - 1 x 100AH GEL Deep cycle battery - 1 Battery to regulator wiring and plug kit	BC202202		
24V Battery option:- - 2 x 50AH GEL Deep cycle battery - 1 x Battery to regulator wiring and plug kit for 24V (parallel operation)	BC202203		

***Mounting rails and brackets -** There are too many options ground and roof panel mounting to catalogue here so we have included the panel rails and brackets only as these are common to and can be adapted to most installations.

****48 Hour operation -** 48 Hour operation at the specified duty cycle is indicated as a guide only and is based on 6 hours of sunshine per day.

	Part Number	PKG Type	Net Weight
Solar power system for 80/20 RX/TX (Medium Duty Cycle - 48 hour operation)**	See below	N/A	N/A
Solar kit:- - Solar Panel (Victron) - 270W-20V Poly 1640 x 992 x 35mm - Victron Smart Solar charge Regulator 100/15 15A 12/24V - Mounting rails and brackets * (see note below) - Panel to Regulator wiring and Plug kit	BC202204		 
12V Battery option:- - 1 x 160AH GEL Deep cycle battery - 1 Battery to regulator wiring and plug kit	BC202205		
24V Battery option:- - 2 x 100AH GEL Deep cycle battery - 1 x Battery to regulator wiring kit for 24V (Parallel) operation	BC202206		
Solar power system for 70/30 RX/TX (Heavy Duty Cycle - 48 hour operation)**	See below	N/A	N/A
Solar kit:- - Solar Panel Victron - 330W-24V Poly 1956 x 992 x 40mm - Victron Smart Solar Charge Regulator 100/20 20A12/24 - Mounting rails and brackets * (see note below) - Panel to Regulator wiring and Plug kit	BC202207		 
12V Battery option:- - 3 x 100AH GEL Deep cycle battery - 1 x Battery to regulator wiring and plug kit for 12V (Series) operation	BC202208		
24V Battery option:- - 2 x 160AH GEL Deep cycle battery - 1 x Battery to regulator wiring kit for 24V (Parallel) operation	BC202209		

***Mounting rails and brackets -** There are to many options ground and roof panel mounting to catalogue here so we have included the panel rails and brackets only as these are common to and can be adapted to most installations.

****48 Hour operation -** 48 Hour operation at the specified duty cycle is indicated as a guide only and is based on 6 hours of sunshine per day.

Antennas, masts, whips and marine accessories

	Part Number	Net Weight
4049 Automatic tuning mobile HF antenna	BC404901	5.50 kg

Features:-
- Frequency range 1.5 to 30 MHz
- Fast tuning - typically less than 2 seconds
- Extremely robust Nylon-66 glass-filled casing
- Two piece MIL-SPEC whip and spring
- Immersible to 1 metre for 1 hour
- Meets MIL-STD 810G for shock, temperature, vibration and dust
- Built in GPS

Note:- See brochure for more detailed information.






Includes:-

Barrett 4049 Automatic tuning mobile HF antenna	BC404900	
Control cable 6 m - integral coaxial/control with connectors to suit 4000 series	4019-00-02	
Fibreglass split whip top section and bottom section	2019-00-03	
Standard spring black	2019-00-04	

419 Automatic tuning mobile HF antenna	BC41901	5.50 kg

Features:-
- Frequency range 1.5 to 30 MHz
- Fast tuning - typically < 1.5 seconds
- Memory Tune < 200ms
- Extremely robust Nylon-66 glass-filled casing
- Two piece MIL-SPEC whip and spring
- Meets MIL-STD 810G for shock, temperature, vibration and dust
- Built in GPS

Note:- - Coaxial/control cable not included. See brochure for available cabling.
-For use with a 2050 HF Transeiver, Control Cable to 2050 Transceiver Adaptor (P/N BCA201915) is required unless replacing a 2019, in which case, the existing 2019 cable is compatible.





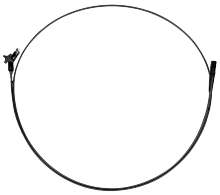

Includes:-

Barrett 419 Automatic tuning mobile HF antenna	BC404900	
Mil-STD Connector	CN-50069	
Fibreglass split whip top section and bottom section	2019-00-03	
Standard spring black	2019-00-04	

	Part Number	Net Weight
NVIS Whip	2019-01-10	1.0 kg

The Barrett Near Vertical Incidence Skywave (NVIS) antenna whip is designed to enhance the short range communications efficiency of the Barrett 4049 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
- NVIS kit installation guide P/N BCM201910

NVIS Magnetic base	2019-01-11	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

NVIS Gutter mount bracket	2019-01-12	0.16 kg

Gutter mount bracket for NVIS whip.



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

Stainless steel whip	BCA201906	0.40 kg

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



	Part Number	Net Weight
Fibreglass split whip top section and bottom section	2019-00-03	0.55 kg

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



Standard spring black	2019-00-04	0.70 kg

Standard spring - colour black.



Universal antenna mounting bracket	BCA90033	1.45 kg

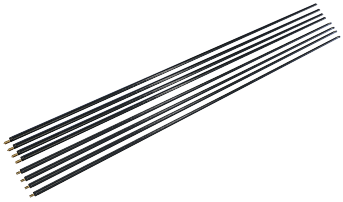
Suit 4045 Automatic tuning mobile antennas mounted on bull bars.



	Part Number	Net Weight
Control cable Antenna to transceiver - 6 metres	4019-00-02	0.95 kg
6 metres - composite cable combining control and coaxial cable - with connectors to suit Automatic tuning mobile antennas when used with 4000 series products.		
Control cable Antenna to transceiver - 10 metres	4019-00-05	3.75 kg
10 metres - composite cable combining control and coaxial cable - with connectors to suit 4000 series antennas when used with 4000 series products.		
Control cable Antenna to transceiver - 30 metres	4019-00-07	3.75 kg
30 metres - composite cable combining control and coaxial cable - with connectors to suit Automatic tuning mobile antennas when used with 4000 series products.		
Control Cable to 2050 Transceiver Adaptor	BCA201915	0.2 kg
Compatible with 4019-00-02, 4019-00-05 and 4019-00-07 control cable connectors. Suits 2050 transceiver.		
Antenna control cable extension adapter kit to suit interface cables	BCA401914	0.2 kg
Includes:- - 7 Way Female/Male Mil connector adapter - SO239 UHF Female/Female coaxial adapter		

	Part Number	Net Weight
4047 Automatic tuning horizontal dipole (2-30 MHz) - 150 W PEP	BC404701	10 kg

The Barrett 4047 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
Built in GPS







Includes:-
- 30 metres of integral RF control cable and connectors P/N 4017-01-01

Note:- See brochure for more detailed information

4045 Automatic HF antenna tuner	BC404501	3.20 kg

Suits land mobile, base station and marine installations.

Features:-
Frequency Range: 1.5 - 30MHz tunable
Power Rating: 150 Watts PEP
Memory tune in <100ms,
Non-Memory tune in <1.5 sec
ALE compatible
Frequency-hopping compatible
MIL-STD-810G Waterproof ,Vibration, and Dust
Built in GPS





Includes:-
- 6 metre extension control cable and connectors

Notes:-
- See brochure for more detailed information

Anti-Vibration Mounting for 4045	BCA404502	0.40 kg

For mounting a Barrett 4045 ATU into an armoured or other shock heavy vehicle



	Part Number	Net Weight
411 Automatic HF antenna tuner	BC41101	2.10 kg

1.5 to 30 MHz - Tunes whips and long wires.
Aluminium base
Supplied with 1x mil-connector

Note:
- Cables not included.
- GPS not included





Emergency long wire antenna	4090-02-06	0.40 kg

With adaptor to suit whip stud on 4090 manpack transceivers.



Counterpoise earth kit - single-wire	4090-02-09	0.20 kg

Recommended to increase the efficiency of the 4090 manpack transceiver Operating with whip antennas below 3 MHz.

Includes:-
- Winding hub, wire earth radial and peg
- Carry bag - colour black



Counterpoise earth kit - multi-wire	4090-02-08	0.25 kg

Recommended to increase the efficiency of the 4090 manpack transceivers when operating with whip antennas below 3 MHz when in dry soil or desert areas where normal earth connections are difficult to achieve.

Includes:-
- Winding hub, wire earth radials and weights
- Carry bag - colour black



	Part Number	Net Weight
Rapid deployment broadband dipole antenna - 150 W	2090-02-03	1.85 kg

Operates from 2 to 30 MHz without adjustment - 150 W PEP max.
Can be deployed as full length broadband dipole or in compact form.
Manufactured with Kevlar radiators and UV resistant Dacron cords. For use with 4000 series transceivers



Includes:-
- Radiators and loads wound on reusable spools
- Lanyards wound on reusable spools with throw and securing weights
- 10 metres of RG-58AU coaxial cable, with waterproof BNC and UHF coaxial connectors
- Carry bag - colour black

Portable mast	2090-02-04	5.20 kg

Suitable for rapid deployment broadband dipole antenna - 150 W and rapid deployment wire dipole antenna - 150 W.



Includes:-
- 7 pieces mast
- Guys on winders, earth pegs, guy pegs and hammer
- Carry bag - colour black

Collapsible Whip 3m - for 4090	4090-02-10	0.20 kg

Used to connect the whip antenna to the PRC-4090 transceiver.
Threaded to Bayonet fitting. Adjustable angle.



	Part Number	Net Weight
Gooseneck - for 4090	4090-02-11	0.20 kg

Used to connect the whip antenna to the 4090 transceiver. Threaded to Bayonet fitting. Adjustable angle.

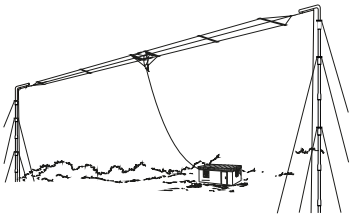


912 Multi-wire broadband dipole (2 - 30 MHz) - 150 W PEP	BC91200	6 kg

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 included. See mast section of catalogue.

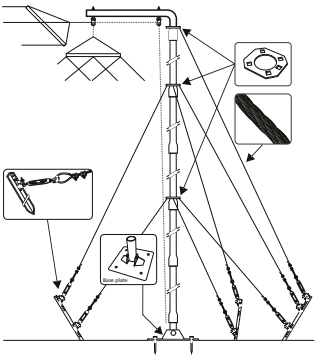


10 Metre Mast - With Stainless steel Guys for Ground Mounting	BC90206	32 kg

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter theweight of the antenna. Pegs, shackles and pins for the base plate are supplied.

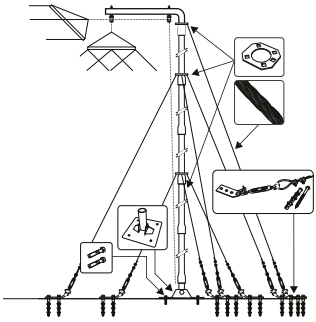
Compatible Barrett antennas
912 HF Multi-wire broadband dipole 150W
P/N: BC91200
912 HF Multi-wire broadband dipole 500W
P/N: BC91202

Specifications
Packed dimensions: 2000mmx 200mmx 350mm
Wind rating: 120 kph



	Part Number	Net Weight
10 Metre Mast - With Stainless steel Guys for Flat Roof Mounting	BC90206FR	32 kg

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guywires and one back-stay guywire to counter the weight of the antenna. Cleats, shackles and masonry anchors are supplied.

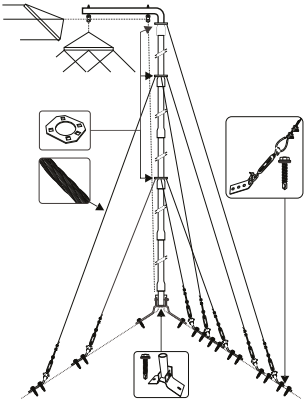


Compatible Barrett antennas
912 HF Multi-wire broadband dipole 150W
P/N: BC91200
912 HF Multi-wire broadband dipole 500W
P/N: BC91202

Specifications
Packed dimensions: 2000mmx 200mmx 350mm
Wind rating: 120 kph

10 Metre Mast - With Nylon Guys for Pitched Roof Mounting	BC90206PR	27 kg

This air transportable mast consists of 5 x 2m aluminium sections inserted on top of each other with a 1.5 m antenna support outrigger on the top section. There are 3 sets of 2 stainless steel guy wires and one back-stay guy rope to counter the weight of the antenna. Cleats, shackles and screws appropriate for tin roofs are supplied.

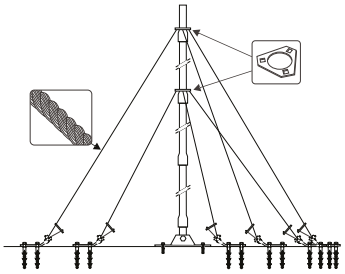


Compatible Barrett antennas
912 HF Multi-wire broadband dipole 150W
P/N: BC91200
912 HF Multi-wire broadband dipole 500W
P/N: BC91202

Specifications
Packed dimensions: 2000mmx 200mmx 350mm
Wind rating: 120 kph

	Part Number	Net Weight
6 Metre Mast - With Nylon Guys for Flat Roof Mounting	BC90209FR	20 kg

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Cleats, shackles and masonry anchors are supplied.

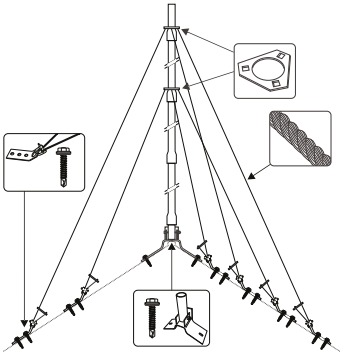


Compatible Barrett antenna
4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701

Specifications
Packed dimensions: 2000mmx 200mmx 200mm
Wind rating: 120 kph

	Part Number	Net Weight
6 Metre Mast - With Nylon Guys for Pitched Roof Mounting	BC90209PR	20 kg

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 rope guys. Cleats, shackles and screws appropriate for tin roofs are supplied.

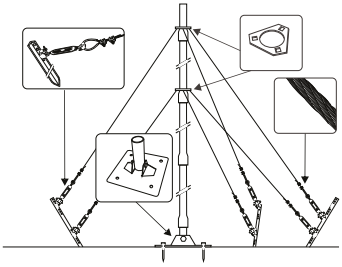


Compatible Barrett antenna
4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC401701

Specifications
Packed dimensions: 2000mmx 200mmx 200mm
Wind rating: 120 kph

	Part Number	Net Weight
6 Metre Mast - With Stainless Steel Guys for Ground Mounting	BC90208	24 kg

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Pegs, shackles and pins for the base plate are supplied.

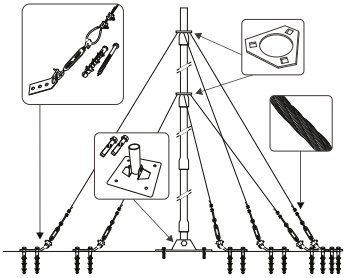


Compatible Barrett antenna
4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701

Specifications
Packed dimensions: 2000mmx 200mmx 200mm
Wind rating: 120 kph

	Part Number	Net Weight
6 Metre Mast - With Stainless Steel Guys for Flat Roof Mounting	BC90208FR	24 kg

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Cleats, shackles and masonry anchors are supplied.

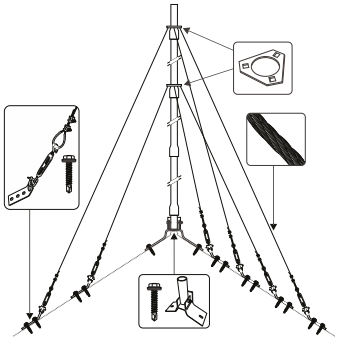


Compatible Barrett antenna
4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701

Specifications
Packed dimensions: 2000mmx 200mmx 200mm
Wind rating: 120 kph

6 Metre Mast - With Stainless Steel Guys for Pitched Roof Mounting	BC90208PR	24 kg

This air transportable mast consists of 3 x 2m aluminium sections inserted on top of each other with a 0.5m, 50mm diameter vertical top section. There are 2 sets of 3 stainless steel wire guys. Cleats, shackles and screws appropriate for tin roofs are supplied.

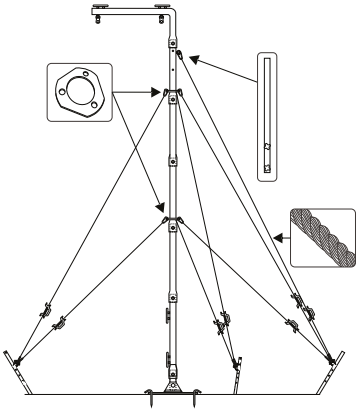


Compatible Barrett antenna
4047 HF Automatic tuning horizontal dipole - 150 W P/N: BC404701

Specifications
Packed dimensions: 2000mmx 200mmx 200mm
Wind rating: 120 kph

	Part Number	Net Weight
10 Metre Rapid Deployment Mast	2090-02-21	24 kg

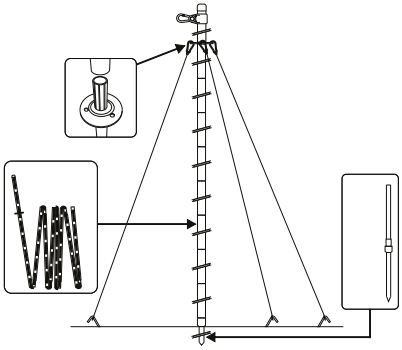
This rapid deployment air transportable 10m mast consists of 2.1 metre aluminium sections with collared end joints, inserted on top of each other. Lower heights are achievable by using fewer sections. A tubular horizontal mounting arm, with pulleys, attaches to the top of the mast to enable large wire antennas to be raised in place once the mast is erected. The supplied 1 metre vertical extension can be added at the top of the mast to increase the maximum height to 11 metres. This extension enables more than one antenna to be easily mounted.



Compatible Barrett antennas
HF 912 Multi-wire broadband dipole 150 W
P/N: BC91200
HF 912 Multi-wire broadband dipole 500 W
P/N: BC91201
HF Rapid deployment broadband dipole 150 W
P/N: 2090-02-03
HF Rapid deployment two wire broadband dipole 150 W P/N: 2090-02-20
VHF Tactical rapid deployment antenna
P/N: 2086-02-10
VHF Tactical rapid deployment antenna
P/N: 2086-02-10
VHF 30 to 108 MHz elevated wideband antenna
P/N: 2083-02-03
VHF 30 to 108 MHz centre-fed whip antenna
P/N: 2083-02-01

5 Metre Rapid Deployment Mast	2090-02-04	5.8 kg

The Barrett Rapid deployment mast is a lightweight, transportable pole construction kit for use as a temporary 5m tower solution in the field.



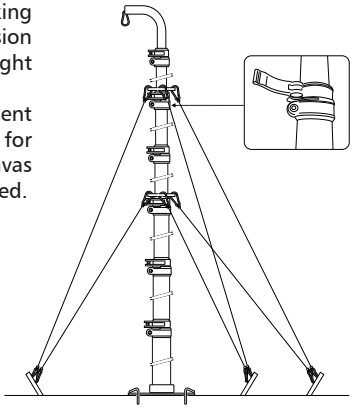
Compatible Barrett antennas
HF-Rapid deployment broadband dipole antenna 150 W P/N: 2090-02-03

Specifications

Mast material:	25mm round aluminium tube, NATO Green.
Packed dimensions:	L-720mm x W-220mm x H-130mm
Packed Weight:	5.8kg

	Part Number	Net Weight
10 Metre Rapid Deployment Composite Mast	2090-02-24	8.6 kg

This rapid deployment mast consists of 7 sections (including the offset bracket) of composite tube which extend telescopically with locking levers. The mast can be erected to any desired height. The last extension at the top of the mast (thinnest section) is only suitable for very light head loads.
Guy ropes are supplied on winding spools to facilitate rapid deployment of the mast. The mast is supplied with all components required for deployment. The complete mast kit is contained in a rugged canvas carry-bag. Please note a halyard for raising an antenna is not included.

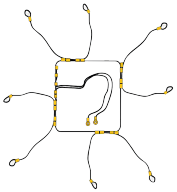


Compatible Barrett antennas
- VHF 30 to 108 MHz elevated wideband VHF antenna
  P/N: 2083-02-03
- HF-Rapid deployment broadband dipole antenna 150W
  P/N: 2090-02-03
- HF Rapid deployment two wire broadband dipole 150W
  P/N: 2090-02-20

Specifications
Retracted eight: 1960mm,
Mast material: Composite telescopic tube, Black.

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

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



" E " plate (earth plate)	BCA91700	N/A

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



Insulator - feed through	BCA91701	N/A

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



Insulator - back stay	BCA91702	N/A

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



Copper earth strap (per metre)	BCA91703	N/A

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



	Part Number	Net Weight
Halyard and pulley kit - to suit 912 Broadband antennas	BCA91201	1.20 kg

Includes:-
- 2 off stainless steel pulleys
- 100 metres of braided nylon halyard



Offset bracket and pulley	2090-02-17	2.20 kg

To facilitate mounting of 912 Broadband and single wire dipoles in an inverted "V" configuration on either 902 Winch-up towers or 902 Telescopic masts.
Pulley to suit 4 mm halyard.



30 metres Coaxial cable RG-58	BCA90047	1.20 kg

30 metres of RG-58 coaxial cable with high quality "UHF" type connectors.



Coaxial cable RG-213 (per metre)	BCA90045	0.15 kg

High quality RG-213 coaxial cable.



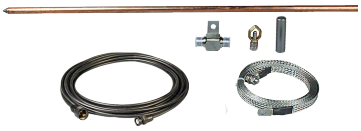
Coaxial connector - UHF - Suit RG-213	BCA90046	0.20 kg

High quality waterproof "UHF" type coaxial connector - to suit RG-213 coaxial cable above.



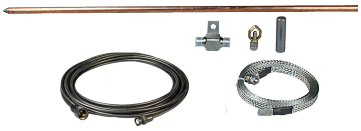
	Part Number	Net Weight
Lightning arrestor kit - up to 400 W	BCA90034	2.05 kg

Includes:-
- 1 x Lightning arrestor module PO-00020
- 1 x 5 metres length of RG58 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



Lightning arrestor kit - up to 1 kW	BCA207503	2.45 kg

Includes:-
- 1 x Lightning arrestor module PO-00024
- 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



	Part Number	Net Weight
3.6 metres Marine swingdown whip	BC91710	2.0 kg

Includes:-
- Max Power 250W
- Adjustable stainless steel swingdown base

Frequency Range:-
- Marine HF 2-30 MHz using suitable ATU



6 metres Two piece marine sidemounted whip antenna	BC91711	3.0 kg

Includes:-
- Max Power 250W
- Two side mounting insulators

Frequency Range:-
- Marine HF 2-30 MHz using suitable ATU and Ground Plane



	Part Number	Net Weight
8.1 metres High efficiency marine sidemounted whip antenna	BC91712	8 kg

Includes:-
- Max Power 250W
- Two side mounting insulators

Frequency Range:-
- Marine HF 2-30 MHz using suitable ATU



10 metres GMDSS Marine high power whip antenna 3-30 MHz (500W/1Kw)	BC91713	24 kg

Includes:-
- Base mount with side feed

Frequency Range:-
- 500W Marine HF 2-30 MHz using suitable ATU and Ground Plane
- 1Kw Marine HF 3-30 MHz using suitable ATU and Ground Plane

Notes:-
- For use with BC407508 1 kW Automatic antenna tuner (Lencom ATU).
- Not suitable for 500W/1KW operation below 3MHz
- For High Power 2-30MHz operation use BC91704 35ft Aluminium high power whip.
- Suitable counterpoise/ground plane required for ground installation, see BCA407550 Multi Radial Earth Mat/Ground plane counterpoise kit.



Interoperability

	Part Number	Net Weight
2064 Radio Voice Bridge	2064-10-10	1.8 kg

Voice bridge between Barrett and third-party radios.



Includes:-
- Tactical Voice Bridge
- H-250 type handset
- Radio Cables (see below)
- User Manual



Cables to be selected at point of order:

- 2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 1m (2064-10-11)
- 2064 to H250 connector for 4090 HF SDR Transceiver, 1m (2064-10-12)
- 2064 to unterminated cable for OEM radio, 1m (2064-10-13)

2064 to 25 way serial connector 4050 HF SDR Transceiver cable, 5m (2064-10-14)
- 2064 to H250 connector for 4090 HF SDR Transceiver, 5m (2064-10-15)
- 2064 to unterminated cable for OEM radio, 5m (2064-10-16)

This page intentionally left blank

Transportable Systems

	Part Number	Net Weight
4050 HF Rapid Field Deployment System (RFDS)	BC405801	N/A



The Barrett 4050 RFDS is a rapidly deployable option for field personnel with the unit being operational within minutes. Its highly ruggedized exterior allows this system to be transported over rough terrain with no damage being taken by the interior equipment. The front and rear lids allow for quick and efficient access to the system making it suitable for field or station requirements.

The RFDS 4050 provides interoperability between HF and UHF/ VHF networks with the incorporation of the Barrett 2062 Crossgate. This allows for communication over both long (HF) and short distances (UHF/VHF) extending the functionality of both.

Features:-
- Field operational in minutes
- AC Mains and/or DC power
- Battery charging on board
- HF and UHF/VHF interoperability
- Optional HF data transmission
- Multiple voice and data security options
- Stackable transportable, base station and vehicle/ field deployable
- Tactical LED lighting for night/dark area operations

4050 Transporter - Rapid Deployment Package (RDP)	BC405055	N/A

The Barrett 4050 Transporter combines Barrett 4050 HF radio equipment into an easily transportable rugged Pelican 1606 case allowing the system to be field operational in minutes. There is no longer a need for time-consuming unpacking, connecting and organizing that can be impractical in emergency situations. Instead, simply attach the appropriate antenna and power source and the Barrett 4050 Transporter is HF transmission ready. The system is designed to be used with an internal DC battery or internal AC mains power supply.



*picture for illustrative purposes only

Includes:-
- Pelican Air Case 1606
- Barrett 4050 HF SDR Transceiver
- Barrett 4050 Transceiver Control Handset
- Internal 22Ah Battery (Optional AGM/SLA or LiFEPO4)
- DVP-200 Data and Voice Privacy Unit (optional internal fit)
- Optional Barrett 4045 Automatic Antenna Tuner (pictured), or tactical broadband dipole

Notes:-
- There are many possibilities in terms of options and configurations with Barrett transportable systems.

Please make contact to discuss you transportable HF radio requirements.

This page intentionally left blank

4075 High power HF transmitter















See Barrett Communications System Catalogue
http://www.barrettcommunications.com.au/publications/Barrett_Systems_Catalogue.pdf

This page intentionally left blank

Training packages

	Part Number	Net Weight
Training package 5 days - min. 2 students per course	BCT20001	N/A

Various HF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.

Note:- In either case the course does not include airfares and accommodation for the students
when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.

Training package 10 days - min. 2 students per course	BCT2000	N/A

Various HF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.

Note:- In either case the course does not include airfares and accommodation for the students
when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.

Training package Day Rate - min. 2 students per course	BCT20008	N/A

Various HF course syllabuses are available - details on request. Courses can be conducted at Barrett Communications' training facility in Perth Western Australia or at Barrett Europe's training facility in Whiteley United Kingdom. Alternatively they can be held at the customer's own facilities.

Note:- In either case the course does not include airfares and accommodation for the students
when travelling to Western Australia and the United Kingdom or for our instructors if they travel to the customer's facilities.

This page intentionally left blank

Spare kits

	Part Number	Net Weight
SDR Micro complete	BCS40001	0.6 kg
SDR Micro board complete. Suits both 4050 and 4090 transceivers.		
4050 SDR PA complete on chassis	BCS40003	1.50 kg
The PA is supplied mounted on the top cover heat sink.		
4050 Transceiver component spares kit	BCS40004	0.6 kg
Discrete component spares based on one transceiver for 5 years operation.		
4050 Control Head complete	BCS40005	0.6 kg
Complete 4050 Control Head setup.		
4090 SDR PA complete on chassis	BCS400011	
The 4090 PA bard PCB is supplied mounted to the 4090 chassis.		
4090 Interface Board PCB	BCS40012	
4090 Interface board complete.		
4090 ATU Board PCB	BCS40013	
4090 ATU board complete.		
4090 Transceiver component spares kit	BCS40014	
Discrete component spares based on one transceiver for 5 years operation.		
4090 Control Handset Complete	BCS40015	0.26 kg
Complete 4090 Control Handset setup.		

	Part Number	Net Weight
4022 Interface boards	BCS40008	0.6 kg
4022 Power supply LED PCB and main control complete.		
4022 Power supply main module - 24 V	BCS40009	0.6 kg
4022 Main switch mode power supply module.		
4022 Power supply main module - 15 V	BCS40010	0.6 kg
4022 Main switch mode power supply module.		
2019 Automatic antenna microprocessor PCB	BCS40006	0.4 kg
Complete microprocessor PCB for 2019 automatic tuning mobile antenna.		
2019 Automatic tuning mobile antenna RF/inductor PCB	BCS40007	2.0 kg
Complete RF/inductor PCB for 2019 Automatic tuning mobile antenna.		
2019 Automatic antenna microprocessor PCB	BCS20006	
Complete microprocessor PCB for 2019 automatic tuning mobile antenna.		
2019 Automatic tuning mobile antenna RF/inductor PCB	BCS20007	
Complete RF/inductor PCB for 2019 Automatic tuning mobile antenna.		