

WWW.STARCOM1.COM

**STARCOM**<sup>1</sup>  
BIKE COMMUNICATIONS .COM

**BT-GO** **BikeCam-2**

Bluetooth headset

Bullet Cam video



**Proven Worldwide**



**UNIVERSAL HELMET-COMMUNICATION SYSTEM**

# Starcom1 Advance

## Starcom1 Advance Explained...

StarCom1 Advance builds on the success and the experience...

The design brief was to make it better, smaller and add every feature and control StarCom1 users have ever asked for. The result is a bike system that has no compromise and no competition. Less than half the size of StarCom1, StarCom1 Advance has a dedicated navigation input, user balance control, user selectable sidetones, automatic volume, vox and mic sensitivity, advanced audio quality and advanced microphone noise reduction systems.

## What StarCom1 Advance Features...

- AMS Automatic volume –speed sensing
- Independent Rider/Passenger microphone control
- Optional Bluetooth connection to phone/sat-nav
- Dedicated navigation input
- Remote volume input
- Balance control
- Independent rider/passenger mic sensitivity control
- Sidetone user options
- Phone/radio privacy user options

## Who's It For...

StarCom1 Advance provides more control a smaller unit and a sat nav input. The system is an 'advanced' version of StarCom1 and every part of the design has been revisited. It has an extra level of noise reduction filtering, the mic circuits are active and the audio quality has been refined.

# StarCom1 Advance

Designed to be the best you can buy with more!



## Technical Specification...

Audio output power  
Power supply  
Visual indication  
Power consumption  
Dimensions  
Weight  
Electrical safety  
EMC

1 Watt into each speaker  
12V DC external power input from vehicle  
Power On (Red) LED  
150mA typical  
(WxHxD) 95x55x25mm  
Approx 200g  
Designed to EN60950-1: 2002  
Complies with EN55103-1: 1997



Mobile Phone



Mic Sensitivity Controls



Stereo Audio



Rider Passenger Balance



Bike to Bike



Remote Volume



Rider Passenger Intercom



Sat Nav

Starcom1 Advance

# Starcom1 Digital

## Starcom1 Digital Explained...

StarCom1 Digital is the range topping brains of the family, fully configurable yet fully automatic. The connectivity allows for 2x stereo music system and 2x phone inputs so the rider and passenger can be individual. The unique digital control system allows: 1) Fully automatic operation; take it out of the box and just use - no controls no adjustments 2) User configuration/programmability of virtually every parameter - customise to your exact requirements.

3) Intelligent noise reduction. The microprocessor control system provides:

- \_ Digitally controlled noise reduction - fully automatic
- \_ Digitally controlled volume - fully automatic
- \_ Digitally controlled mic sensitivity - fully automatic with programmable levels
- \_ Digitally controlled mute control - programmable level and mute time
- \_ Mobile phone. Enjoy a normal phone conversation at speed.. Totally hands free
- \_ Satellite Navigation or radar, allows voice commands to be heard clearly

## What StarCom1 Digital Features...

- All StarCom1 & Advance features plus:
- AMS Automatic volume –speed sensing (Independent rider/passenger)
- VOX voice activation control (Independent rider/passenger)
- Independent Rider/Passenger microphone control
- Intelligent source selection
- 2 dedicated phone inputs & 2 music inputs
- Optional Bluetooth connection to phone/sat-nav
- Remote control input
- Balance control
- Independent rider/passenger mic sensitivity control
- Sidetone user options phone/radio privacy user options

## Who's It For...

StarCom1 Digital provides the ultimate in performance and control. Aimed at the more technical user who demands the very best in bike communication.

# StarCom1 Digital

Designed to be the best you can buy, with brains!



## Technical Specification...

Audio output power  
Power supply  
Visual indication  
Power consumption  
Dimensions  
Weight  
User controls  
Electrical safety  
EMC

1 Watt into each speaker  
12V DC external power input from vehicle  
Power On (Red) LED  
150mA typical  
Dimensions (WxHxD) 95x55x25mm  
Approx 200g  
Volume, VOX, Balance, Mic1 & Mic2  
Designed to EN60950-1: 2002  
Complies with EN55103-1: 1997



Bike powered



Output Switched



Mobile Phone



Mic Sensitivity Controls



Passenger Phone



Stereo Audio



Rider Passenger Balance



Passenger Audio



Bike to Bike



Remote Volume



Digital Remote



Rider Passenger Intercom



Sat Nav



Digital Programme

Starcom1 Digital

# Power & Fitting

## Power StarCom1

Each StarCom1 in the range is designed to be bike powered, performing best with 12v power connection. This gives you the confidence that your intercom will always be working. There's no hassle to recharge batteries or forgetting to and loosing your comms for the journey



## Step1 location

Find a suitable location for your Starcom1, this is typically under the seat. Then secure using the velcro discs provided. Remember Advance and Digital are only credit card size and 1" thick



## Step2 power

A fused DC power cable is supplied. This simply needs to pick up 12V and ground, it is fully protected against reverse or incorrect connection. It is recommended that the connection is made directly to the bike battery. RED to 12V and BLACK to ground.



## Step3 cable tidy

The DC power cable needs to be secured tidily using the cable ties supplied. The headset cables need to be routed to a suitable easy to use location and again secured using the cable ties supplied. The Headset leads are then fixed using the retaining caps to the bike.



## Step4 helmet kits

The helmet assembly comprises two speakers and a microphone which is Velcro attached into position, one speaker adjacent to each ear and the microphone in front of the mouth (a boom mic in the open face helmet kit).



## Optional bulkhead fittings (HSEX-04 & HSEX-05)...for bikes with body...

The HSEX-04/05 headset extension cable connects the StarCom headset input to a waterproof bulkhead fitting socket. It can be fitted to any convenient and available body panel. Once fitted the helmet kit can easily and quickly be connected when required, simply flip the weatherproof lid and plug in the coiled helmet extension lead. The coiled extension leads stay with the helmets and plug into the bulkhead socket.



## PRO-FIT1 optional fitting kit for bikes showing a bit of frame...

The optional PRO-FIT1 adds a professional factory fit finish to your StarCom1 installation. It allows the rider and passenger headset cables to plug into the bike mounted bracket. The bracket mount also allows for the phone or music extension connection.

### Kit includes:

- 1 x fitting bracket BKT-01
- 1 x 3.5mm extension cable EXT-01
- 2 x 6ft Bulkhead extension lead HSEX-04



# StarCom Kit... fully loaded!

**Easy to use:** Just talk to your passenger, no buttons to press no VOX to trigger. Bike-to-bike can be voice trigger (VOX) or push-to-talk (PTT), listen to the radio, enjoy true quality stereo music and keep in touch with a mobile phone. All hands free!

**Easy to install:** Designed to be easily mounted on any bike, supplied complete with the fitting kit which includes 12V lead and fittings, Velcro disc and tie wrap mounting kit. You only need a pair of pliers to fully install.

- 1) Rider headset & extension lead - standard all kits
- 2) Pillion headset & extension lead - standard Kit-B
- 3) Bike power DC kit - standard all kits
- 4) Two-way bike-to-bike radios - standard Kits C,E,F
- 5) PTT-02 push to talk switch - standard Kits C,E,F
- 6) Navigation interface cable - optional
- 7) Remote volume control - optional Advance & Digital kits only
- 8) Phone interface adaptor or Bluetooth adaptor - optional
- 9) Stereo music interface cable - standard all kits
- 10) Weatherproof cable retention kit standard all kits
- 11) PRO-FIT1 optional fitting
- 12) StarCom1 main unit



3

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## 100mph+ crystal clear communication

Designed for comfort, safety, performance, value.

Designed to be the best you can buy, built to last

**Auto volume level:** Automatically adjusts the volume to compensate for ambient helmet noise.

**VOX:** Voice operated transmit for two-way radio use, just talk to transmit.

**Noise reduction:** Noise in bike communication can be a big problem especially at speed. StarCom systems incorporate noise reducing microphones and two stages of active noise filtering using the latest technology.

**Intelligent source selection:** Gives priority to the phone and radio. If the phone rings or a radio message is received the music will be muted.

**Helmet plug power On/Off:** Plug in Headset1 to turn ON and unplug to turn OFF.

7



8



9



Fully Loaded

# Build Your StarCom Kit... 6 easy steps

Step 1...  
Select your StarCom1 Unit



StarCom1



StarCom1 Advance



StarCom1 Digital

Step 2...  
Select your kit



Solo Rider



Rider-Passenger



**Step 3...  
Go Bike-to-Bike?**



**Select radio**



**Select headset  
& accessories**

**Step 4...  
Select your radio kit**



**Radkit C**



**Radkit E**



**Radkit F**



**Use own  
radio**

**Step 5...  
Select your headset(s)**



**Fullface  
Headset  
SH-004**



**Openface  
Headset  
SH-006**



**Earplugs  
PP-14  
PP-16**



**Shortie  
PRO-002**

**Step 6...  
Add accessories**



**Phone**



**Sat-Nav**



**Music**



**Pro fit1**



**Remote**

**Build Your StarCom Kit**

# Go Bike-to-Bike

For Bike-to-Bike communication on the move, just add a two-way radio to your StarCom kit. We supply a range of transceivers and interface cables to suit most two-way radios including Alan, Cobra, Kenwood, Maxon, Midland, Motorola, Uniden and more. Please consult your local dealer

A two-way radio must be used to communicate Bike-to-bike, one per vehicle. Both Rider and Pillion can talk Bike-to-bike if

needed with any Starcom unit. Bike-to-bike can be two bikes or as many as ten or more!

## Bike-to-Bike Radios (Europe only)

We supply a range of two-way radios offering a variety of prices and performance to match your requirements and budget.



### Midland G5

Small lightweight and ultra compact. It offers a typical range of 3/4 mile (2mile in ideal conditions). Provides good sound quality and loud and clear speech. This is a good unit at a very affordable price, recommended for amature/beginners.

#### Features include:-

- Number of Channels 8
- Batteries 3 AAA size Ni-CD/Ni-MH alkaline rechargeable Battery life up to 35 hrs with alkaline batteries
- Display LCD backlighted
- Output power 500mW ERP
- Temperature -20°C to +55°C
- Weight 63gr (w/o batteries)
- Dimensions 53 x 89 x 28mm



### Kenwood UBZ

Small and compact yet built to meet professional demands. It offers a typical range of 1mile (2 mile in ideal conditions). Provides good sound quality and loud and clear speech. This is a good quality unit at a mid-range price, recommended for serious bikers and more discerning weekend riders.

#### Features include:-

- Power 500 mW ERP (PMR);
- 10mW ERP (LPD)
- Weight (w/o battery pack) 180 gram
- Dimensions 56 (L) x 104 (H) x 26 (D) mm
- BR-FK optional bike power kit now available.
- 3xAAA batteries



### Kenwood TK3201

This professional radio will give probably the best range and audio performance of any pnr446 radio available. Typical range is 1 mile in built up areas. It is ideal for the professional user including couriers, instructors and regular bikers. If performance and quality is critical then this has to be the choice. The TK3201 comes complete with rechargeable battery, rapid charger and belt clip.

#### Features include:-

- Weight - 360g
- Dimension - 54x122x33mm
- BR-TK2 optional bike power kit now available, no need to recharge the radio.

# Radio Kits

Remember, these radio kits are sold as an add-on to any of our StarCom1 kits. They can be used with either Kit A or Kit B.

## Radkit C - Midland G5 Radio

Midland G5 radio  
Radio Cable CAB-10  
Push-to-talk PTT-02

## Radkit E - Kenwood UBZ Radio

Kenwood UBZ radio  
Radio Cable CAB-01  
Push-to-talk PTT-02

## Radkit F - Kenwood TK3201 Radio

Kenwood TK3201 radio  
Radio Cable CAB-01  
Push-to-talk PTT-02

All of these radio kits will work with StarCom1, Advance and Digital.

## Already have a two-way radio?

We have interface cables to connect many radio makes including PMR, CB, portables and mobiles, so you can use your existing radio with any StarCom1 kit. All items in our kits are sold separately, so just select the interface cable you require instead of the radio kit.

## PTT or VOX?

Both PTT and VOX can be used to speak via two-way radio on all StarCom1 units.

**VOX** is a voice operated transmit control, with an adjustment to set the voice volume required, when you talk, the radio is automatically turned ON (Transmit mode) and turned OFF (listen mode) 1 second after you stop talking.

**PTT** is a push to talk handlebar switch, designed to be easy to use and not get in the way. To operate, simply push the button with your thumb and talk, let go and you are in listen mode.

StarCom1 Radio kits make it simple, the addition of a radio kit is all that is required to talk to another bike.



## Other two-way radio uses include:

**Scooter systems**  - giving a sole rider comms to other vehicles. Can only be used with PTT and at restricted lower speeds.

**Motorbike Instructors** - Single earpieces SH-007/08 connecting straight to radio are available for students.

# Helmet Kits

## Select your helmet kits

### Full Face headset SH-004

Suitable for all makes of full face helmets, easy fit with a velcro fix microphone. The headset is supplied with stereo speakers, fitting kit and an HSEX01 coiled extension cable.

### Open Face headset SH-006

Suits full & open face helmets. The boom microphone is designed to fit inside the helmet lining. The headset is supplied with stereo speakers, fitting kit and an HSEX01 coiled extension cable.

### Flip Front helmets

The choice of headset for a flip front helmet is dependant on your requirements either SH-004 or SH-006 are suitable.

### PlugPhones ear plug speakers

Ear plug speakers designed for ear protection, quick fit and comfort. PlugPhones are supplied with stereo 3.5mm jack plug and require PP04 or PP06 headsets

### Shortie/No helmet headset PRO-002

A boom mic and speaker system that fits securely into your ear, supplied with different size ear inserts, the boom is a bend and stay nylon construction.



## Standard helmet kits Low profile speaker

High specification (20Hz - 20KHz) audio response provides both excellent music quality and crystal clear speech. Dimensions 28mm x 7mm.

The speakers are designed for easy fitting into a helmet, they are mounted within a slim line plastic baffle and then in comfort-fit padded mounting disks with a velcro stick pad.

### The microphones

The microphones are the most important part of a helmet system. The StarCom microphones are designed to be insensitive to background noise, wind noise and mechanical vibration.

### SH-004 Bud microphone (Full Face)

### SH-006 Boom microphone (Open Face)

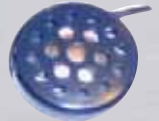
### Weatherproof safety connectors

Designed with mini-din shrouded plugs and sockets; these provide a lightweight, weatherproof connection with a safety quick release action.

The plugs and sockets have large, easily seen location arrows.

### Helmet kit (Complete)

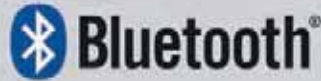
SH-004 pictured



# Bluetooth Connectivity

## Add Mobile Phone

The next stage is to decide if you want to use your mobile phone with your StarCom1. All units have a dedicated phone port. Connection can be made by either cable or Bluetooth with the Bluetooth Module BTM-02. This is a bike-powered module that stays with the unit and gives a wireless connection to your phone. Normal phone conversations can be held even at high speed: the caller probably won't know you're on a bike (your phone must have auto answer).



## Add Sat-Nav

Another option is Satellite Navigation. Connect your sat-nav to your StarCom1 either by cable or Bluetooth and hear the directions through your headset. Connect to the Auxiliary port (phone port on StarCom1) and the audio commands will automatically mute the music you may be playing, allowing the command to be heard clearly.



**Will work with all Bluetooth enabled phones**



**In most cases, mobile and sat-nav can be used through one connection reducing the cables and cost to you!**

# Accessories

## PHONE Adaptors - cable or Bluetooth

Phone kit includes a 1.5m interface cable and a phone specific adaptor as required to suit your phone.



**BTM-02** Bluetooth phone adaptor

## SAT NAV & RADAR Cables CAB-35 (& 55 & 36)



Isolated interface cable for navigation and radar equipment, StarCom to 2.5mm and 3.5mm jack. Suitable for most navigation and radar systems which have audio output.



## VOL-02 Remote volume control

Remote volume control, suitable for handle bar mounting.

## BIKE-TO-BIKE

We have a wide range of interface cables to connect most types of two-way radios

### CAB-01 ... 02 etc

CAB-01 = Kenwood portables 2-pin	CAB-02 = Cobra, Alan, Icom etc 2-pin
CAB-03 = Maxon 1-pin	CAB-04 = Motorola 1-pin
CAB-09 = Uniden 2-pin	CAB-10 = Xtreme / Alan 1-pin
CAB-21 = CB Midland 75-822	CAB-14 = Motorola 2-pin

The above list is a small sample, please contact your dealer for full details.



### PTT-02

Push-To-Talk Handle bar switch kit 2m straight cable. Unobtrusive mounting, fits under the left grip, for easy thumb press control.



## BIKE-TO-BIKE Radios

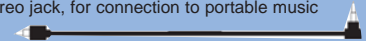
We supply a range of two-way radios for bike-to-bike communication:

TK3201 - Kenwood professional radio    UBZ - Kenwood Sports Radio

G5 Midland Sport Radio

## AUDIO Interfaces

**MUS-01** Standard stereo music lead 3.5mm stereo jack, for connection to portable music systems. (Supplied with all StarCom1 kits.)



**MUS-03** Isolated music lead, for connection to car stereo type speaker, includes fitting kit, total 2.5m.



**MUS-04** Isolated stereo music lead StarCom to 3.5mm stereo jack, for connection to music systems when bike powered, 2m.



### SWT-01 Selector Switch

SWT-01 Selector switch for bike audio systems with on-bike speakers is designed to be used in conjunction with a MUS-03; it allows the selection of sound to the on-bike speakers and /or to the StarCom1.



## PROFESSIONAL Fittings

### HSEX-02(2') & 03(6') Straight headset extension HSEX-04(6') & 05(2') Bulkhead headset extension

Connects to the StarCom1 headset input to a waterproof bulkhead fitting socket. It can be fitted to any convenient body panel. Once fitted the helmet kit can easily and quickly be connected when required, simply flip the waterproof lid and plug in the helmet cable



**BKT-01 Mounting bracket** allows the HSEX-04 & 05 & EXT-01 bulkhead headset cables to be fixed to the bike frame in a suitable position, without the requirement of cutting a mounting hole. It allows for two bulkhead extension cables and one phone or music extension cable.



### PRO-FIT1 Professional fitting kit

For a factory look our professional mounting kit includes all that's required.

- 1 x BKT-01 Fitting Bracket
- 1 x EXT-01 3.5mm Bulkhead extension
- 2 x HSEX-04 Bulkhead extension



# BikeCam-2



## Bike Video Recorder System

BikeCam2 is a high quality, easy to use motorcycle video system. Helmet or Bike mounted bullet camera recording systems for Bikes, record sound commentary via your StarCom1, great quality suitable for professional applications including training, racing, track days etc or just great fun for videoing your favourite rides.



## Mini DVR Recorder

The BikeCam2 DVR is one of the smallest mp4 recorders on the market. It has a small built-in screen to preview your videos and to position your helmet camera before recording begins. Takes standard SD memory cards. The recorder is very versatile and has many programmable functions including motion detect recording and cycle recording.



### BikeCam2 complete Kit includes:

- 1 x Sony HAD CCD Bullet camera
- 1 x Camera suction mounting kit
- 1 x Camera bar mount kit
- 1 x Camera adhesive mount kit
- 1 x DVR video recorder
- 1 x 4Gb SD memory card
- 1 x Carry case, strap and belt clip
- 1 x StarCom1 interface cable
- 2 x 1400mAh batteries
- 1 x Universal mains battery charger
- 1 x USB cable
- 1 x AV out cable
- 1 x Instruction manual

Recorder: 90 x 55 x 20mm  
Camera: 75 x 18dia mm

## Mini DVR Recorder

A small and easily mounted bullet camera.  
A premium quality fully waterproof camera fitted with the latest Sony CCD chipset.  
Sony ExView HAD sensor for unmatched image reproductions and colour representation.  
This camera is IP68 rated so it can be used for under water.



# BT-GO

## BT-GO Bluetooth Helmet System

BT-GO is a stand alone helmet system, it can NOT be used with ba StarCom1, Advance or Digital. The BT-GO can connect up to 4 bluetooth devices one of which can be a second BT-GO, only 1 device can be active at a time, some switching between devices is automatic for example when working as an intercom while a phone call occurs, BT-GO will automatically switch to the phone for the duration of the call and then back to the intercom once the call is terminated. BT-GO provides for press button control of source switching but this must not be used while on the move. Source switching is dependant on the bluetooth device having this feature.



### Helmet to Helmet:

With 2 BT-GO's  
talk rider to passenger  
or bike to bike  
<< 150 meters >>



### Mobile Phone:

If the phone has music and or GPS available via bluetooth then these features will also be active through the BT-GO



OR

### MP3 Music:

BT-GO is A2DP enabled and will connect to a MP3 stereo music device allowing great quality stereo music to be played on the move



OR

### Mobile Phone:

Connect to GPS and have voice commands via bluetooth, for GPS system including MP3 and Phone then these features will work through BT-GO



## Specification

**Connectivity:** Sat Nav, Cell Phones, A2DP stereo music. Two BT-GO's can be paired for Rider to Passenger or Bike to Bike.

**Operating Time:** Up to 20 hours speech, 7 hours typically without loud music.

**Audio output power:** Max 1/4 Watt into each headset speaker

**Operating range:** Better than 150 meters in most conditions

**Power supply:** 3.7V DC 500mAh internal rechargeable

**Visual indication:** Front panel LED's

**Power consumption:** 60mA typical

**Dimensions:** (WxHxD) 90x35x25mm (2&3/4"x3/4"x1/2")

**Weight (Approx):** 50g

**Operating temp:** -10 to +55 .C

# FAQ

## **Q. How does StarCom1 compare with the competition?**

A. There are few systems available that have all the features of StarCom1, very few that have noise cancelling that really works at high speed, and none that have both at a sensible price. You can't buy better – that's our guarantee. StarCom1 Advance goes further where Starcom1 beats the competition, Advance has no equal.

## **Q. Can I use my mobile phone with StarCom1?**

A. Yes, we have adaptors to suit most phones; you just need to specify the make and model of phone when ordering, we can supply wire phone adaptors or a blue tooth adaptor.

## **Q. What is VOX?**

A. VOX is a voice activated control system which can be used to control a two-way radio, to cause it to transmit when you speak. It can also be used to mute the audio/music, enabling rider and pillion to turn off the music while talking.

## **Q. Do I need a switch or VOX to talk rider-to-pillion?**

A. No, StarCom1 is a full dual channel system, which means that rider and pillion can both talk naturally and at the same time.

## **Q. What is PTT?**

A. PTT is the push-to-talk switch used to control a two-way radio. It can be used instead of or with the VOX system. The switch is normally mounted on the handlebars and thumb-operated.

## **Q. Can I use a navigation or radar system with StarCom1?**

A. Yes, the navigation or radar needs to have audio out. We have cables to attach most systems.

## **Q. I wear earplugs but my passenger doesn't. Does StarCom1 have a rider-pillion balance control?**

A. Yes, StarCom1 is designed with this in mind.

## **Q. I wear earplugs. Can I use StarCom1?**

A. Yes, StarCom1 has a fully adjustable volume control and powerful amplifiers. In fact we recommend that ear plugs are used to reduce the ambient noise.

## **Q. What is the warranty with StarCom?**

A. We offer a full 12-month warranty on StarCom1 and accessories.

## **Q. Can I fit StarCom1 myself?**

A. Most customers fit their own system. Everything required is included in the kits and the instruction manual gives comprehensive instructions. The wiring requires only a pair of pliers, no wires need to be cut or soldered.

## **Q. Can I play my portable music system through StarCom1?**

A. Yes, a stereo music lead is supplied with all StarCom kits and plugs into the headphone socket on any portable audio system (MP3, Walkman, CD, MD, etc.).

## **Q. What is sidetone and is it required?**

A. Sidetone is microphone feedback, as you talk you hear it through your own speakers. Within a crash helmet you can hear yourself even at speed (try singing to yourself). So feedback isn't necessary. The problem with sidetone is that if wind noise is picked up, you will hear it. Budget intercoms normally use only a single channel for both rider and pillion so both hear everything that goes into either microphone; speech and noise! Starcom1 uses 2 independent and separate channels halving potential noise problems. The test for any system is: can sidetone be turned off. On Starcom systems sidetone is factory set to off but can be switched on if required.

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