

# Flightcell®

CONNECT | COMMUNICATE



CIVILIAN

MILITARY

Flightcell® Pro™

## Connect and communicate with Flightcell® Pro

Modern military operations require the use of a range of communications equipment, whether in aircraft, vehicles or on foot.

Growing demand for secure point-to-point communication is leading to increased use of satellite and cellular links, but inbuilt phone systems are expensive to install, less secure and require certification.

Hand-held phones and portable radios provide personal communication and portability, but can't be used in aircraft or tactical vehicles because of high ambient noise levels. Hand-held phones and radios are also inconvenient to use when the hands are required for other tasks.

Flightcell provides the leap forward in communications integration by simultaneously connecting one or more complementary communications options into a military headset whilst remaining connected to the aircraft or vehicle interphone (ICS) and radios:

- Cellphones, for deep penetration calls in densely inhabited areas
- Iridium satellite phones, for fully global communication at any altitude, anywhere
- Military tactical radios for close contact group operations.

Flightcell provides high-quality audio in high-noise environments, enabling hand-held phones and radios to be operated where in the past they were unusable.

Flightcell enables portable phones and radios to be used through a headset, leaving the hands free for other tasks.

Because Flightcell is portable and battery powered, it enables rapid and very cost effective deployment of a portable phone or radio in an aircraft or military vehicle.



## Functions

- Master volume control adjusts all inputs and outputs simultaneously
- Individual inputs and outputs can be adjusted to optimize audio levels
- Isolate function allows phone and radio to be isolated while user is talking on ICS
- Optional cable allows second user full access to connected communications or other audio devices
- Optional injector cable allows incoming phone or radio audio to be provided to all crew via ICS, or to a second headset
- Flightcell also doubles as a portable, dual VOX two-place intercom, and supports the connection of a second headset via an optional cable.



## Interfaced devices

Flightcell can be used to interface virtually any communications or audio device:

- Satellite phones – Flightcell is optimized for the Iridium 9505
- Cellphones
- Hand-held radios, including tactical radios
- Audio recorders and cameras
- Other audio sources - for example an iPod/CD/MP3 player, laptop computer or specialised audio monitoring equipment.

Flightcell can double as a portable, dual VOX two-place intercom in aircraft without radios.

## Secure Communication

The Iridium 9505 satellite phone, used with the encryption module, provides secure global communications to Tempest (TS) level. Flightcell now enables the benefits of this secure link to be extended to operational aircraft and other military vehicles.

## Power Options

Flightcell Pro can be powered by an internal rechargeable battery with up to 40 hours operation - or operate and/or recharge battery from aircraft DC power supply:

- 110V or 220V AC (with supplied power adaptor)
- 9-32V DC from vehicle or aircraft power
- LC Display indicates battery status, volumes, menu settings and connection states.

*Flightcell® Pro provides high-quality audio in high-noise environments, enabling hand-held phones and radios to be operated where in the past they were unusable.*

### Integrated communications with Flightcell® Pro

Aviation operations require the use of a range of communications equipment. Growing demand for point-to-point communication is leading to increased use of satellite and cellular links, complementing the aircraft's installed radios.

Cellular phones provide good coverage in inhabited areas, while satellite phones are ideal in rugged terrain or in remote areas.

Inbuilt cellphone and satellite phone systems are available, but they are expensive to install, date rapidly and require certification.

Flightcell provides communications integration by simultaneously connecting one or more complementary communications options into an aviation headset whilst the user remains connected to the aircraft interphone (ICS) and radios. Flightcell can also be used as a portable, dual VOX two-place intercom.



*Flightcell Pro is portable and battery powered, providing rapid and cost effective deployment of a cellular or satellite phone or radio in any aircraft.*

### Connect your communications devices

Flightcell can be used to interface virtually any communications or audio device:

- Cellphones
- Satellite phones – Flightcell is optimized for the Iridium 9505 satellite phone, and can be used with other models
- Hand-held transceivers
- Audio recorders and cameras
- Other audio sources - for example CD/MP3 players, laptop computers and specialised audio recording or monitoring equipment.

Flightcell supports the connection of a second headset via an optional cable providing an intercom. The second user can be connected to or isolated from radio and phone communications.

### Global point to point communication

The Iridium 9505 satellite phone provides point-to-point communications anywhere on the globe, whether at the Poles or in rugged terrain where radio communication is poor.

Flightcell now enables cost effective deployment of the Iridium service on aircraft.

### Unlimited Applications

- Commercial pilots – stay in touch with customers while you fly.
- Search and rescue – communicate direct to control centre, people on the ground, or to specialist support or medical staff.
- Emergency communications – Flightcell can operate independently of your aircraft systems, enabling you to use your phone in the event of radio failure.
- Music - listen to your favourite tunes from your iPod, MP3 or CD player, in high-quality, amplified stereo sound.



See back of brochure for full specifications.

### Effective Search & Rescue and Emergency communications with Flightcell Pro

Effective and timely SAR and emergency response operations require efficient, flexible communication between field operators, the control centre, specialist support, and those in distress.

Standard VHF and UHF radio links are disrupted by atmospheric interference and rugged terrain where a high proportion of searches occur. Multiple users on public access channels can also prevent emergency personnel transferring vital information.

Flightcell Pro provides the key link for SAR communications, enabling a range of phones or radios to be instantly deployed in any aircraft or helicopter. Flightcell also provides integrated communications, by simultaneously connecting one or more external phone or radio options into an aviation headset, complementing the aircraft's existing radios.



## Product specifications

### Military / Low Impedance

Batteries:	4.8V 1200mAh NiMH	Aux MIC Impedance:	Dynamic	Plug:	U174/U
Battery Life:	30 hours typical	Aux MIC Sensitivity:	5mV	Temperature Range:	0-55°C
DC Power Supply:	12-30VDC 500mA	Aux Frequency Response:	150Hz - 5kHz	Weight:	360g (13oz)
DC Power Supply connector:	Centre Positive	Aux Headphone Impedance:	8-16 ohms	Dimensions (mm):	140 x 65 x 30mm
Main MIC Circuit:	Isolated	Aux Headphone Power:	100mW	Dimensions (inches):	5.5 x 2.6 x 1.2in
Main MIC Impedance:	Dynamic	Aux Music Frequency Response:	70Hz - 20kHz	Case:	Flame retardant polycarbonate/ABS alloy (V <sub>0</sub> rating)
Main MIC Sensitivity:	5mV	Typical Cell Phone Sensitivity:	200mV	ICS Cable Jacket Material:	Matte black polyurethane
Main MIC Frequency Response:	150Hz - 5kHz	Cell Phone Frequency Response:	70Hz - 20kHz	EMC:	Complies with the relevant provisions of: AS / NZS CISPR 22:2002, FCC 47 Part 15:2002
Main Headphone Impedance:	8-16 ohms	Typical Sat Phone Output:	200mV	and VCCI for Class B	
Main Headphone Power:	100mW	Sat Phone Frequency Response:	70Hz - 20kHz	Explosive Atmosphere:	MIL-STD-810, Method 511.4, Procedure I.
Aux MIC Circuit:	Non-Isolated				

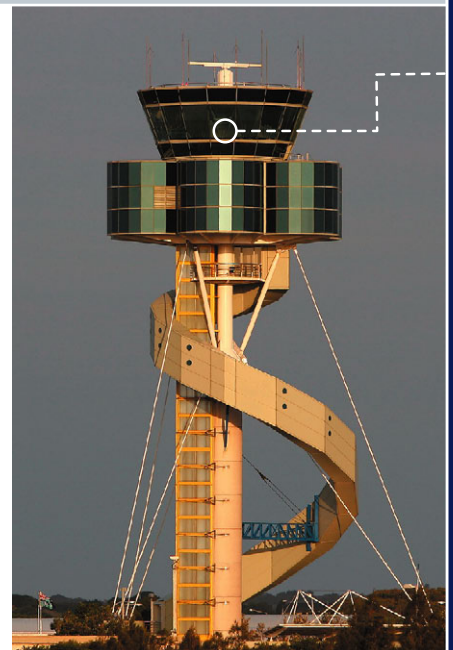
### GA / Civilian / Bose / NATO (Helicopter)

Batteries:	4.8V 1200mAh NiMH	Aux MIC Impedance:	Electret	Plug:	NATO-U174/U, BOSE-Lemo, GA/Civilian-PJ051/68
Battery Life:	30 hours typical	Aux MIC Sensitivity:	5mV	Temperature Range:	0-55°C
DC Power Supply:	12-30VDC 500mA	Aux Frequency Response:	150Hz - 5kHz	Weight:	360g (13oz)
DC Power Supply connector:	Centre Positive	Aux Headphone Impedance:	150-600 ohms	Dimensions (mm):	140 x 65 x 30mm
Main MIC Circuit:	Isolated	Aux Headphone Power:	100mW	Dimensions (inches):	5.5 x 2.6 x 1.2in
Main MIC Impedance:	Electret	Aux Music Frequency Response:	70Hz - 20kHz	Case:	Flame retardant polycarbonate/ABS alloy (V <sub>0</sub> rating)
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Aux MIC Circuit:	Non-Isolated				



MOEBIUM™

Flightcell® Technology from Moebium



Flightcell is registered in U.S. Patent and Trademark Office.  
Patents NZ330732, AU5751882. International patents pending.  
NATO stock number pending.  
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