

# ALPHATEC

## AVIONICS



# Avionics Catalogue

February  
2024

# INTERCOM IC-A13 V2

# ALPHATEC

## AVIONICS

A high range multi-purpose model.

Onboard voice activated intercom for ULM and light airplanes.

Can be embedded in dashboard, 57 mm inlay diameter.

**New version with a black plastic case.**

**Suitable for 8.33 MHz radios with AGC ( Automatic gain Control ) like the ICA13.3 model.**

CMS technology (surface mounted components).

12V DC power supply (from external battery or plane circuit).

### Numerous interfaces/connectors :

- **VHF radio** with automatic lowering of passenger level when pilot emits.
- **UHF radio** or second VHF radio.
- **Cell Phone** with our Bluetooth BTA-11 adapter (sold apart).
- **Music input** with automatic level lowering level when pilot or passenger speaks, or upon receipt of a VHF message.
- **Additional auxiliary** in/out plug.
- **Digital noise killer filter** (sold apart, more information in the following pages)

### Numerous functions :

Vocal activation and volume of the intercom adjustment controls on font panel.

Vocal activation can be completely bypassed.

Music input can be disabled on font panel.

The passenger circuit can be completely isolated when the pilot needs to concentrate on speaking with air control, or when he needs to phone without the passenger hearing his conversation.

All interfaces plugs are on the rear panel. They are professional grade clickable and keyed 10 mm plugs.

Aluminum housing.



12V DC power cord connected via DB9 plug supplied with the unit :

Pin 1 - 0 Volt/ground (black wires).

Pin 2 - UHF PTT (brown wire).

Pin 3 - VHF Frequency shifting (purple wire).

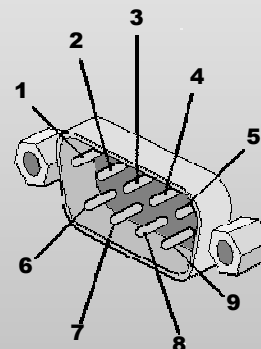
Pin 4 - Passenger/copilot PTT (grey wire).

Pin 5 - Pilot VHF PTT (white wire).

Pin 6 & 7- Pick up, Hang up, vocal dial for cell phone via Bluetooth BTA11 adapter (sold apart) (blue wires).

Pin 8 - unused.

Pin 9 - +12V DC (red wire).



Housing dimensions : Height 64mm x Width 64mm x Depth 70mm

Depth for mounting : 90mm with cable connectors.

Weight 165 G. Weight with Power cord : 200 G.

**The IC-A13 intercom is the only one compatible with our numeric filter NOISE KILLER**

Ref : ICA13

289 €

**For those who already have an ICA13 intercom, we offer a free retrofit in ICA13.3 version**



**ALPHATEC**  
**ZAM de Pont des Charrettes**  
**30700 Uzès France**  
**Tel 00 33 466 03 02 12**

[alphatec-avionics.com](http://alphatec-avionics.com)

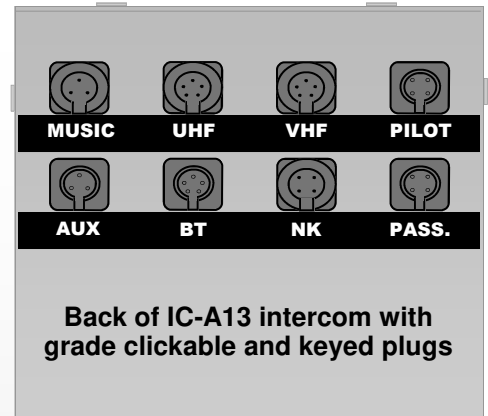
### IC-A13 ACCESSORIES

#### Socket jack helmet cord

For pilot/passenger headset, with panel mount socket jack .  
Available in 1.20m or 2.20m long, with twin jack  
5.25&6.35mm for all civil aircraft headsets, or with single  
jack 6.35mm for all our new Titane & Titane 2 single jack  
headsets.

Note : these cord are not compatible with our previous  
single jack headsets Pro and Pro 2.

<b>Single jack model</b>	<b>Ref CC13MJS</b>	<b>35€</b>
<b>Twin jack model</b>	<b>Ref CC13DJS</b>	<b>55€</b>



#### Helmet cord with box housing plug

For the pilot/passenger helmet, with 6.35mm (1/4 in.) jack connector integrated in a  
housing to be fixed on a tube. Available in 1.20m or 2.20m long, with or without  
waterproof PTT pushbutton on the housing. These cords are compatible with our  
models Titane and Titane 2, but not with our previous single jack helmets Pro and  
Pro 2.

<b>Housing box single jack model</b>	<b>Ref CC13MJB</b>	<b>45.00€</b>
<b>Housing box single jack + PTT button model</b>	<b>Ref CC13MJB A</b>	<b>60.00€</b>



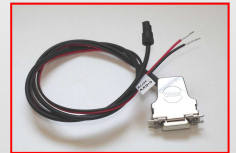
#### VHF cord

Used to connect intercoms an aircraft VHF radio set.

Available for the following radios sets : ICOM ICA3-22, ICOM ICA6-24-25,  
MICROAIR, FILSER ATR 833 or 833-2, BECKER AR6201, KING-BENDIX,. TQ  
KRT2, TRIG ...

At order time, you must supply the reference of your radio. Lenght : 80cm

<b>For ICOM radio</b>	<b>Ref K13IC</b>	<b>35.00€</b>
<b>For radio with SubD 15 pins</b>	<b>Ref K13F500</b>	<b>65.00€</b>
<b>For radio with SubD 25 pins</b>	<b>Ref K13F833</b>	<b>75.00€</b>
<b>For radio with 2 SubD</b>	<b>Ref K13TRIG</b>	<b>110.00€</b>



#### UHF Cord Only for ICA13 intercom

Used to connect the intercom to an UHF or aircraft VHF radio set. For  
ICOM, ALAN, KENWOOD, ... to be supplied at order time. Lenght : 80cm

<b>Ref K13UHF</b>	<b>35.00€</b>
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#### MP3 player cords

Used to connect intercom IC-A13 to a MP3 player, a  
smartphone or any other music source use a 3.5mm stereo  
single jack. Lenght : 1m

<b>Ref K13MU</b>	<b>28.00€</b>
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#### Auxilliary IN/OUT cord

Used to connect the intercoms to a second non noise cancelled  
audio source (second radio set, GPS, voice messages from on  
board instruments, etc...) and/or record all the on board  
communications. It is supplied with red/black RCA plugs.  
Lenght : 80cm

<b>Ref K13AUX</b>	<b>30.00€</b>
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#### Cord for BT-A11 adaptor

This cord connects the intercoms to our Bluetooth BT-A11 cell  
phone adaptor, to handle hands free calls aboard with safety.  
Lenght : 60cm

<b>Ref K13BT</b>	<b>33.00€</b>
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# FILTER NOISE KILLER NK2-A13.1

**ALPHATEC**  
AVIONICS

**New version of our famous numeric filter, even lighter but just as efficient, for background noises cancellation from -9dB to -40dB**

8 levels digital filter for background noise cancellation (from -9dB to -40 dB).

Using the latest technology, the efficiency of this filter is very amazing.

It cancels repetitive noise you can hear in the proximity of the pilot, co-pilot (engine, propeller, wind...), making all communications clear and relaxed. (comfort and safety).

Contrary to the ANR system, who cancel up to 20dB on frequencies below 400 hertz, our filter works on all frequencies.



**This filter connects exclusively to rear panel of IC-A13 intercom, witch is inseparable.**

It can be quickly turned on or off thru a switch on the front panel of the IC-A13 device.

**This filter is now delivery with the adjustment cord NKR2-A13**, with embedded dashboard encoding wheel.

You can switch filter intensity from 0 to 7, according to each plane proper background noise level. Without this remote, noise Killer filter is set by default to -9dB.

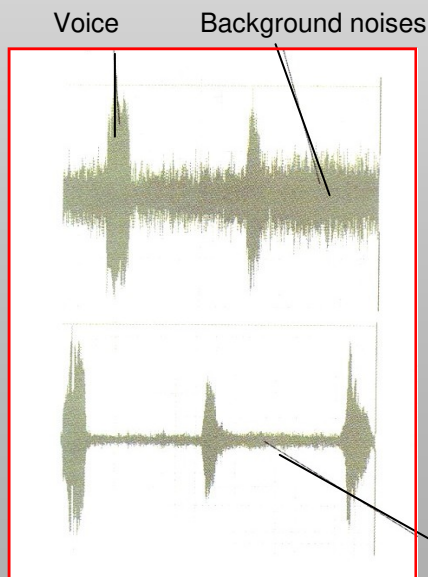
Weight with adjustment cord: 50G

Adjustment cord length : 60cm

Embedding dimensions : Height. 22.5mm x Width. 11mm

Not compatible with IC-A12 intercom model.

The following diagrams are taken from actual audio signals and illustrate how the signal is being processed.



**Original signal**

Speech with a lot of background noise

**Processed signal**

Speech with reduced noise

Reduced noise

Ref **NK2-A13.1** 289€

# INTERCOM IC-A12 v2

# ALPHATEC AVIONICS

## A light model

Panel mount mono intercom 57mm inlay diameter for ultralights and light planes, voice activated with adjustable squelch. Civil aviation standard.

### New plastic housing box, even lighter

CMS technology (surface mounted components)

12V DC Power supply (from external battery or plane circuit)

Three interfaces / connectors :

- VHF Radio without automatic lowering of passenger level when pilot emits.
  - Cell phone with our Bluetooth BTA-11 adaptor (sold apart)
  - Additional auxiliary in/out plug for recording on board communications or listening music, without automatic level lowering.
- Squelch and volume control on panel.  
Vocal activation can be completely bypassed.  
All interfaces plugs are on the rear panel. They are professional grade clickable and keyed 10mm plugs.

12V DC power cord connected via DB9 plug supplied with the unit.

Housing dimensions : Height. 62mm x Width 62mm x Depth 45mm

Depth for mounting : 80mm

Weight : 115grs Weight with power cord : 150grs

Pin 1 : 0 Volt / Power supply ground and frequencies changing (black wires)

Pin 2 : UHF PTT (brown wire) ( only for ICA13 intercom)

Pin 3 : VHF frequencies changing (purple wire)

Pin 4 : VHF PTT passenger (grey wire)

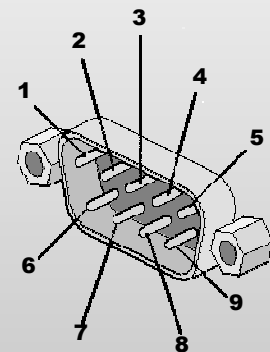
Pin 5 : VHF PTT pilot (white wire)

Pin 6 et 7 : BTA11 answer / end button / vocal dial (blue wires )

BT-A11 adaptor sold apart

Pin 8 : Unplugged

Pin 9 : + 12 volt (red wire)



IC-A12 229.00€

Same accessories and cords as the IC-A13 intercom model.

Please, refer to the IC-A13 data sheet to see products available and prices



**ALPHATEC**  
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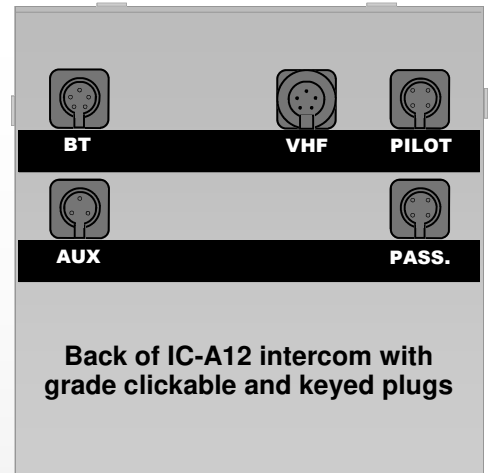
### IC-A12 ACCESSORIES

#### Socket jack helmet cord

For pilot/passenger headset, with panel mount socket jack . Available in 1.20m or 2.20m long, with twin jack 5.25&6.35mm for all civil aircraft headsets, or with single jack 6.35mm for all our new Titane & Titane 2 single jack headsets.

Note : these cord are not compatible with our previous single jack headsets Pro and Pro 2.

<b>Single jack model</b>	<b>Ref CC13MJS</b>	<b>35€</b>
<b>Twin jack model</b>	<b>Ref CC13DJS</b>	<b>55€</b>



#### Helmet cord with box housing plug

For the pilot/passenger helmet, with 6.35mm (1/4 in.) jack connector integrated in a housing to be fixed on a tube. Available in 1.20m or 2.20m long, with or without waterproof PTT pushbutton on the housing. These cords are compatible with our models Titane and Titane 2, but not with our previous single jack helmets Pro and Pro 2.

<b>Housing box single jack model</b>	<b>Ref CC13MJB</b>	<b>45.00€</b>
<b>Housing box single jack + PTT button model</b>	<b>Ref CC13MJBA</b>	<b>60.00€</b>



#### VHF cord

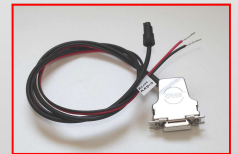
Used to connect intercoms and aircraft VHF radio set.

Available for the following radios sets : ICOM ICA3-22, ICOM ICA6-24-25, MICROAIR, FILSER ATR 833 or 833-2, BECKER AR6201, KING-BENDIX, TQ KRT2, TRIG ...

At order time, you must supply the reference of your radio.

Lenght : 80cm for ICOM radio and 45cm for on board radios

<b>For ICOM radio</b>	<b>Ref K13IC</b>	<b>35.00€</b>
<b>For radio with SubD 15 pins</b>	<b>Ref K13F500</b>	<b>65.00€</b>
<b>For radio with SubD 25 pins</b>	<b>Ref K13F833</b>	<b>75.00€</b>
<b>For radio with 2 SubD</b>	<b>Ref K13TRIG</b>	<b>110.00€</b>



#### Auxilliary IN/OUT cord

Used to connect the MP3 player cord K12MU to ICA12 Intercom. It is supplied with red/black RCA plugs.

Lenght : 80cm

<b>Ref K13AUX</b>	<b>28.00€</b>
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#### MP3 player cords

Used to connect intercom IC-A12 to a MP3 player, a smartphone or any other music source use a 3.5mm stereo single jack, via the K13AUX cord. Lenght : 1m

<b>Ref K12MU</b>	<b>30.00€</b>
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#### Cord for BT-A11 adapter

This cord connects the intercoms to our Bluetooth BT-A11 cell phone adaptor, to handle hands free calls aboard with safety.

Lenght : 60cm

<b>Ref K13BT</b>	<b>33.00€</b>
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# MOBILE PHONE BLUETOOTH ADAPTOR BT-A11

**ALPHATEC**  
AVIONICS



**BT-A11 C**

Our new **mobile phone adaptor BT-A11** use 2.10 Bluetooth technology. It allows you to connect a Bluetooth mobile phone to our new panel mount intercom IC-A11, or our old 903 or 903S intercom after a little transformation, to phone into your plane safely.

Stand-by time: up to **1000 hours**. Talk time : **20 hours**.

Multipoint: 8 devices can be paired, and maximum 2 phones can be monitored for pilot and passenger.

A remote PTT can be installed to hang and hang up, voice dial or redial from trapeze or joystick.

Two models available:

**BT-A11C** with connexion cable for intercom for all people who can't integrate it on its panel, or

**BT-A11T** panel mount with a plug in the back.

Supplied with cigar light charger and 3M dual lock fixation.

Dimensions: 125 x 50 x 10mm Weight: 60grs

Réf **BT-A11C**

**189€**

Réf **BT-A11T**

**189€**



**BT-A11 T**





Ref	<b>FALCONPS3SAT</b>	<b>550€</b>
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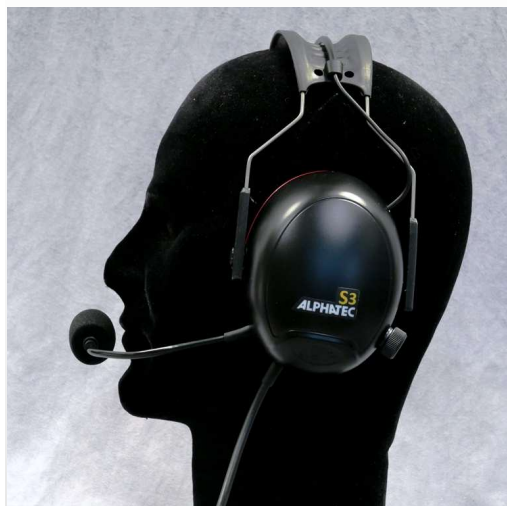


# PREMIUM S3 HEADSET

Black Edition

**ALPHATEC**  
AVIONICS

Civil aviation standard headset, with new **PREMIUM S3** ear cups offering - 37dB noise reduction



With PS3 attachment and large wind screen

## Top quality electro acoustic equipment including :

Electret noise cancelling microphone with adjustable flexible boom and housing box

New CMS preamplifier with band pass filter and RF filter

Speakers impedance 75 ohms

Ear seals in soft foam very comfortable with extra foam padding to increase ear comfort

Straight and spiral cable with 6.35 and 5.35mm moulded plugs for twin jack model or long spiral cable with moulded 6.35 jack plug for single jack version

Adjustable volume control by waterproof potentiometer

For the A models, large PTT button usable with gloves on left ear cup, especially designed for ground crews

Small wind screen

Noise reduction – 37dB - Very comfortable soft headband.

Ear cups are black with a red border

Supplied with a black velvet protection pouch

Weight : 440grs - One size fits all

**PREMIUM S3** single jack

Ref **PREMIUMS3MJ** 309€

**PREMIUM S3** twin jack

Ref **PREMIUMS3** 319€

**PREMIUM S3 A** twin jack and PTT button

Ref **PREMIUMS3A** 329€

## OPTIONS AVAILABLE

**Bonus for large wind screen**, for trikes and all others ultralights with open cockpit. Designed to offer good noise reduction without weakening the voice.

Ref **PVGB** 3€

**Bonus for helmet headset screw mounting**, instead of headset :

**S3 attachment** for FALCON helmet mounting. Ø 45mm, screwing from the outside of the helmet

Ref **PS3** 25€

**P3E attachment** for ICARO helmets. Ø 42mm, screwing from the inside of the helmet

Ref **P3A** 29€

**Bonus for gel ear seals**, for more comfort and noise reduction, instead of foam ear seals.

Recommended for eyeglass wearers

Ref **PVORGELA** 26€

**Bonus for waterproof microphone**

Ref **PVWP** 20€

**Bonus for Bluetooth intercom & mobile phone adaptor BTR5-A22**

Ref **BTR5-A22** 180€

**Hygienic pad for ear seals for school or aero club, set of 5 pairs**

Ref **HY100** 7€

Black Edition

**ALPHATEC**  
AVIONICS

## COMPACT PREMIUM S2 HEADSET

Civil aviation standard headset, with new Compact S2 ear cups offering - 32dB noise reduction, with reduced weight and size.

**A good compromise for closed cabin aircraft.**

Available with **NR** strong noise reduction microphone for noisy aircraft, or **ST** noise reduction microphone.



### Top quality electro acoustic equipment including :

**ST** or **NR** Electret noise cancelling microphone with adjustable flexible boom and housing box

New CMS preamplifier with band pass filter and RF filter

Speakers impedance 75 ohms

Ear seals in soft foam very comfortable with extra foam padding to increase ear comfort

Straight and spiral cable with 6.35 and 5.35mm molded plugs for twin jack model or long spiral cable with molded 6.35 jack plug for single jack version

Adjustable volume control by waterproof potentiometer

Small wind screen

Noise reduction – 32dB - Very comfortable soft headband.

Ear cups are black with a orange border

Supplied with a black velvet protection pouch

Weight : 350grs - One size fits all

**PREMIUM Compact** single jack micro **ST**

**PREMIUM Compact** twin jack micro **ST**

Ref **PREMIUMCMJ** 215€

Ref **PREMIUMC** 225€

**PREMIUM Compact** single jack micro **NR**

**PREMIUM Compact** twin jack micro **NR**

Ref **PREMIUMCNRMJ** 255€

Ref **PREMIUMCNR** 270€

### AVAILABLE OPTIONS.

**Bonus for gel ear seals**, for more comfort and noise reduction, instead of foam ear seals.

Recommended for eyeglass wearers

Ref **PVORGELA** 26€

**Hygienic pad for ear seals for school or aero club, set of 5 pairs**

Ref **HY100** 7€

# FALCON PREMIUM S3

Black Edition

**ALPHATEC**  
AVIONICS

**Multipurpose helmet with modern design, very light and strong. For fixedwing, trikes, gyrocopters or paramotors.**

Top quality jet helmet with fiberglass shell or carbon shell depending on the versions. Aerodynamic shape well ventilated. Removable hypoallergenic internal padding for an easy washing. Plastic-coated cord sidepieces with luxury chin trap. Optional transparent or brown tinted visor with rapid mechanism fastening. Certified EN 966 for air sports. This helmet is certified only with the ear cups attached onto the shell with screw system.



Weight with radio equipment : 1030grs

5 sizes available : XS (53-54) S (55-56) M (57-58) L (59-60) XL (61-62) XXL (63-64)

Fiber glass shell colors : Pearl white ; Carbon optic ; or carbon shell.

## **PREMIUM S3 radio equipment including :**

Electret noise cancelling microphone with adjustable flexible boom and housing box

New CMS preamplifier

Speakers impedance 75 ohms

New ear seals in soft foam very comfortable with extra foam padding to increase ear comfort

Straight and spiral cable with 6.35 and 5.35mm moulded plugs for twin jack model or long spiral cable with moulded 6.35 jack plug for single jack version

Adjustable volume control by waterproof potentiometer

Large wind screen ( optional ). Ear cups black with a red border

**New PREMIUM S3 ear cups with Snr 36dB noise reduction.** Supplied with a fluffy protection bag.

**FALCON PREMIUM S3 MJ**, single jack, pearl white

**FALCON PREMIUM S3 MJ**, single jack, carbon optic

**FALCON PREMIUM S3**, twin jack, pearl white

**FALCON PREMIUM S3**, twin jack, carbon optic

Ref	<b>FALCONPS3MJ</b>	<b>550€</b>
Ref	<b>FALCONPS3CMJ</b>	<b>580€</b>
Ref	<b>FALCONPS3</b>	<b>560€</b>
Ref	<b>FALCONPC</b>	<b>590€</b>

## **OPTIONS available :**

Bonus for carbon shell (to add on the price of the white helmet)

Bonus for gel ear seals for more comfort

Bonus for waterproof microphone

Transparent visor with mechanism fastening \*

Brown tinted visor with mechanism fastening \*

Composite visor extension

Aerodynamic peak with integrated visor lock

Bonus for Bluetooth intercom & mobile phone adaptor **BTR5-A22**. See page 67

## **Spares parts :**

Transparent visor

Brown tinted visor

Visor mechanism fastening , silver color

Visor mechanism fastening, black color

Interchangeable internal padding, size S, M, L, XL or XXL

Interchangeable FALCON helmet, without radio equipment, pearl white

Ref	<b>PVC</b>	<b>99€</b>
Ref	<b>PVORDEL</b>	<b>26€</b>
Ref	<b>PVWP</b>	<b>22€</b>
Ref	<b>ECFAL</b>	<b>58€</b>
Ref	<b>ETFAL</b>	<b>60€</b>
Ref	<b>MTFALC</b>	<b>69€</b>
Ref	<b>CQFALCC</b>	<b>89€</b>
Ref	<b>BTR5-A22</b>	<b>180€</b>

Ref	<b>ECRFAL</b>	<b>49€</b>
Ref	<b>ERTFAL</b>	<b>51€</b>
Ref	<b>VISFAL</b>	<b>16€</b>
Ref	<b>VISFALN</b>	<b>21€</b>
Ref	<b>INTFAL</b>	<b>33€</b>
Ref	<b>FALCON</b>	<b>180€</b>

\* Visors come with silver colored screws. Visors fitted with peak and / or visor extension are delivered with black screws



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[alphatec-avionics.com](http://alphatec-avionics.com)



# ANTI-COLLISION STROBE LIGHT 50W SBL-A15

**ALPHATEC**  
AVIONICS

## Anti-collision strobe light very light and powerful !

The SL5-A15 strobe light with a power of 4500 Lumens, are all fitted with 5 LED lamp of 10 W (50W).  
Machined aluminum housing box.  
Available in aluminum color or black grey powder coated.  
Fixation with two 4mm dowels.  
They are delivered wired, ready to plug to the control box.  
At order time, you must specified length of cables you need. Without any specification, the SL5-A15 are supplied with a cable length 1m50.  
Lighting angle : 120°  
Weight : 50 g  
Dimensions : Height. 125 mm, Width. 39 mm, Depth. 7 mm

The control box SC-A15 allows you to connect 4 strobes : right wing, Left wing, front and back of plane.  
Light synchronization feature : Triple flashes for right and left wings, single flash for front and back alternately.  
CMS technology (surface mounted components).  
An internal micro controller allows custom programming.  
Strong fixation with 3M Dual Lock.  
12V DC power from plane circuit using the power cord supplied.  
5 A fuse is to install.  
Extremely lightweight : 30 g  
Housing dimensions : Height . 35 mm x Width. 72 mm x Depth. 20 mm  
12V supply cable : 80cm

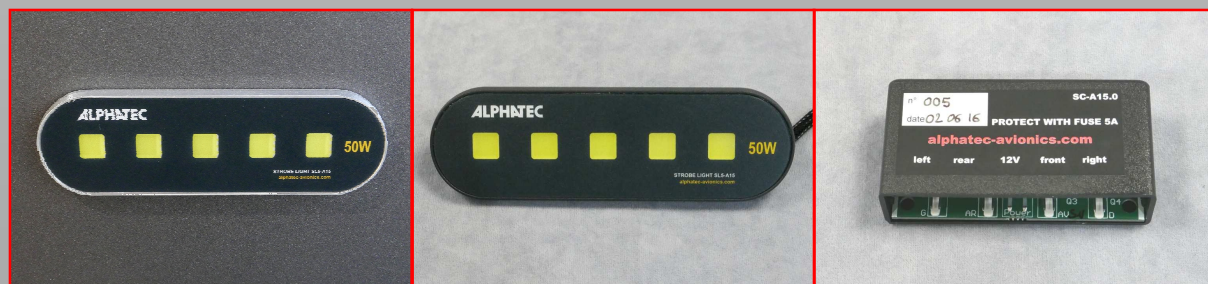
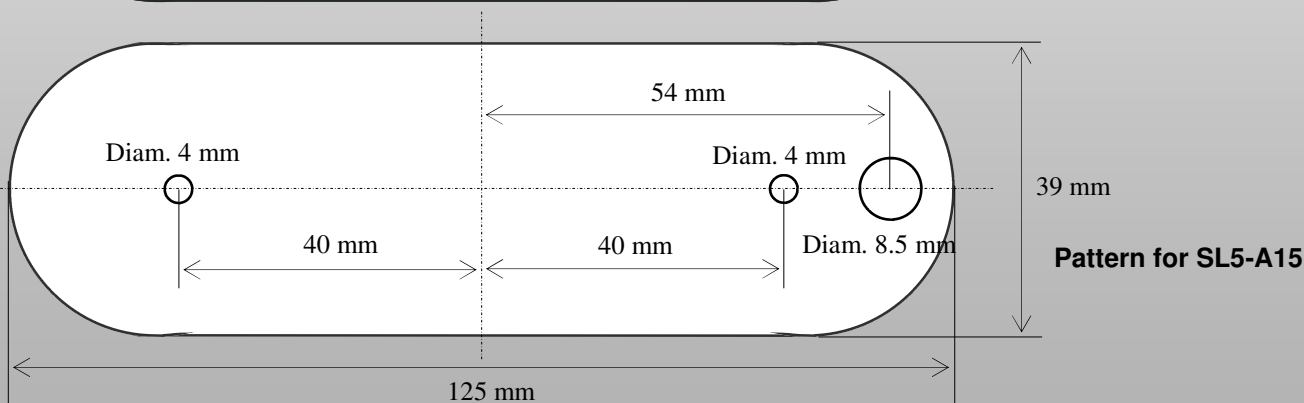


**SBL2-A15 set**

<b>Control box + 2 flashes</b>	Ref	<b>SBL2-A15</b>	<b>359 €</b>
<b>Control box + 3 flashes</b>	Ref	<b>SBL3-A15</b>	<b>439 €</b>
<b>Control box + 4 flashes</b>	Ref	<b>SBL4-A15</b>	<b>519 €</b>
<b>Control box</b>	Ref	<b>SC-A15</b>	<b>195 €</b>
<b>Flash 50 W</b>	Ref	<b>SL5-A15</b>	<b>95 €</b>



**SL5-A15**



### EQUIPEMENT SET FOR HELMET

**These sets are including all electro acoustic equipment to fit on a full face or an open face helmet.**  
**All the components of these sets are tested before delivery.**

They include :

A noise cancelling microphone with adjustable flex boom, housing box and small windscreen.

Two 150 ohms speakers with cable, with or without ear cups depending models.

Sets without ear cups must be only mounted into helmet with own ear cups or into a full face helmet.

Spiral cable with 6.35mm molded jack on single jack set, or straight and spiral cable with twin jack 5.25 and 6.35mm for twin jack model.

CMS preamplifier.

Installation instructions.

**4 models available :**

**For civil aviation standard intercom ICA13-ICA12-903A-ICA11A**

<b>Set without ear cups, TITANE2 microphone, spiral cable with single jack</b>	Ref <b>KIT2</b>	<b>179€</b>
<b>Set with ear cups, TITANE2 microphone, spiral cable with single jack</b>	Ref <b>KIT4</b>	<b>219€</b>
<b>Set without ear cups, TITANE2 microphone, straight and spiral cable with twin jack</b>	Ref <b>KITAC2</b>	<b>209€</b>
<b>Set with ear cups, TITANE2 microphone, straight and spiral cable with twin jack</b>	Ref <b>KC+AC</b>	<b>249€</b>

**Options :**

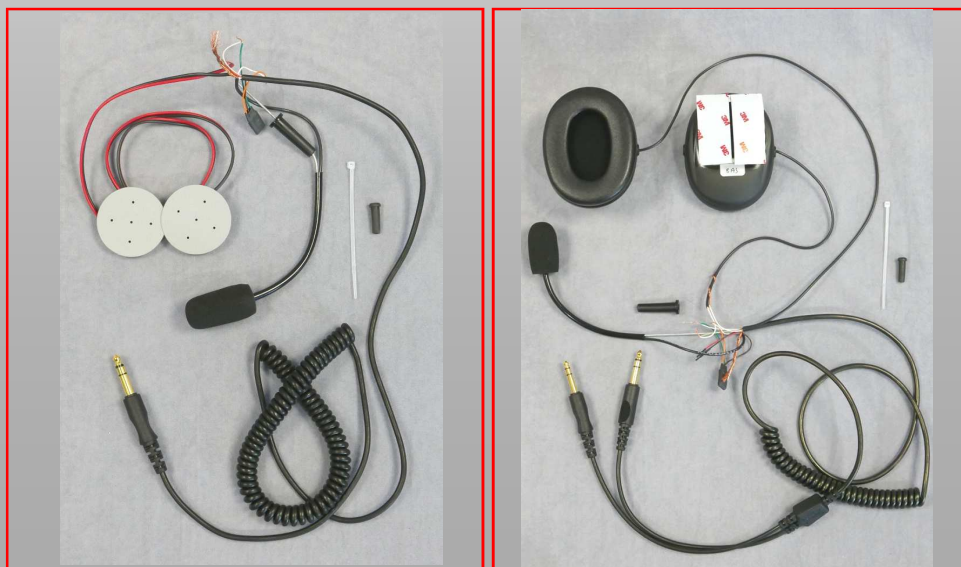
**Waterproof potentiometer** for adjustable volume control on helmet

**Large windscreen**, for trikes or others ultralight with open cockpit

**Gel ear seals** for more comfort , for sets with ear cups. Bonus

Ref <b>VOLKIT</b>	<b>29€</b>
Ref <b>BPGM</b>	<b>6€</b>
Ref <b>ORGEL</b>	<b>39€</b>

**These sets are not suitable for mounting on a FALCON or ALPHAJET type helmet**



# TQ Transceiver KRT2-S

# ALPHATEC AVIONICS

Excellent value



The TQ KRT2-S aviation radio for the standard 57mm Ø cut-out is one of the most modern radios on the market. Lowest weight, compact dimensions, lowest power consumption – all made possible by the highly digitized technology. A brilliant TFT color display suitable for sunlight, an integrated voice-controlled intercom and intuitive operation result in an unbeatable price-performance ratio.

The **KRT2-S** is an 8.33 kHz, integrated VOX/Intercom, dual watch mode complete VHF transceiver in a 2 ¼ inch (57mm) housing, only 144mm depth.

Satisfies upcoming equipage requirement for 8.33kHz channel spacing. Dual-watch technology, simultaneous monitoring of two frequencies.

Voice controlled intercom, can be deactivated for use with external intercom.

Memory for up to 100 user-definable named frequencies. Remote control unit available

The KRT2 VHF-AM transceiver has a full graphic LC-display that allows for easy reading under all light conditions, including full sun.

Push button and display illumination can be dimmed. The KRT2 is, of course, prepared for 8.33 kHz spacing that will become the new international standard for airborne communication. Switching between the 8.33 and the 25 kHz mode is therefore made effortlessly simple. Standard or dynamic microphones can be used. A built-in-test facility increases flight safety. The dual watch mode that allows scanning of two different channels is included. The KRT2, with its integrated VOX/Intercom circuit, allows communication between pilot and co-pilot.

Also available, **TQ KRT2-RC, radio remote control** suitable for all aircraft in tandem seating arrangement. In operation it is identical to the KRT2 radio. The display is also the same high-resolution TFT color display suitable for sunlight as the KRT2 radio unit. It weighs only 140g with an installation depth of only 31mm.

## Main Features:

- \* Frequency Range: 118.000 MHz to 136.990 MHz
- \* Channel Selection: 8.33 or 25 kHz (select automatically)
- \* RF-Output Power: > 6 W (carrier power)
- \* Receiver Sensitivity: > 12 dB @ 2 uV
- \* Input Voltage Range: 9 V DC to 36 V DC
- \* Operating Temperature Range: -20°C to +55°C, for short time up to +70°C
- \* Current consumption: 1,6 A @12 V DC (transmit), 110mA@12 V DC (receive standby)
- \* Certification: ETSO-2C169a, ED-23B Class 4, C, TSO-C169a, Class 6, H1 & H2
- \* Function: dual watch mode, integrated VOX/Intercom
- \* Weight / dimensions: 360g / 65 x 65 x 144 (+ plugs) mm
- Warranty : 2 years.

Recommended Price 01/2024 : **KRT2-S 1798.80€ \***

**KRT2-RC 540€ \***

15 pins DSub connector with housing box and locking system

Adapter ATR500 / KRT2

Adapter M760 MICROAIR / KRT2

Adapter Becker AR4201 / KRT2

For any other radio model, contact us for prices and availability. Headsets wiring is sold on the VHF WIRES page at the end of this catalog.

**ALPHATEC Price : 1475€ \***

**ALPHATEC Price : 459€ \***

Ref	PSUBD15B	25€
Ref	ADA5K	119€
Ref	ADAM760K2	119€
Ref	ADAAD42	119€

**-18%**  
Sur la radio

\* Prices subject to change, please contact us before ordering



**ALPHATEC**  
**ZAM de Pont des charrettes**  
**30700 Uzès France**  
**Tel 0033 466 03 02 12**

[alphatec-avionics.com](http://alphatec-avionics.com)



# TQ TRANSPONDERS

## KTX2-S V2 and KTX2-S Basic

**ALPHATEC**  
AVIONICS

The newly developed and certified Mode-S  
KTX2.V2 aircraft transponder  
Light, compact and suitable for ADS-B out.

The least expensive Mode S transponder,  
with high performance

Now available in Basic version, without ADS  
-B out



Approvals for EASA, supplied with EASA FORM ONE.

This model is specifically designed for ultralights, LSA, Experimentals, gliders and for a large number of GA aircraft VFR and IFR, with a very low weight, very compact dimensions for an easy and flexible installation, and a minimum power consumption.

Large high-contrast, long-life TFT color display for maximum readability, even in direct sunlight.

Intuitive operation, developed for pilots by pilots.

An upgrade for ADSB-out is available for Basic version. Price on demand.

### Main features :

Mode S transponder class 1 Level 2 els

Transmission Power : 250W (class 2) Transmission frequency :  $1.090 \pm 1\text{MHz}$

ADS-B out (Automatic Dependent Surveillance Broadcast) 1090ES mode ( 1090MHz extended squitter) to connect a WAAS standard GPS source.

Panel mount 57mm inlay diameter

Maximum operating altitude : 30.000 ft

Maximum speed : 250 kt / 463 km/h

Operating voltage : 9 V DC à 36 V DC

Operating Temperature :  $-20^{\circ}\text{C}$  à  $+55^{\circ}\text{C}$ , max  $+70^{\circ}\text{C}$

Power Consumption : 0,75 A @12 V DC

Integrated altitude encoder

Weight : 3680g

Dimensions : 65 x 65 x 144 mm without plug - Warranty : 2 years.



Recommended price 01/2024 : **KTX2-S V2 2939.80€ \***

**KTX2-S Basic 2662.80€ \***

**ALPHATEC OFFER : 2351€ TTC \***

**ALPHATEC OFFER : 2130€ TTC \***

### Options available:

Stub antenna with BNC female plug

Shark fin type antenna with BNC female plug

Maximum speed : 560km/h - Sea air resistant

Antenna coaxial cable BNC/TNC - 2m of low loss cable

KRT2 power cord cable - 60cm (not sold alone)

Ref **ATB-TED** 49€

Ref **ATA-15** 119€

Ref **CAT** 55€

Ref **CALT** 39€



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**Tel 0033 466 03 02 12**

[alphatec-avionics.com](http://alphatec-avionics.com)

\* Prices subject to change, please contact us before ordering

## AIR BAND ANTENNAS

### SINGLE STRAND ANTENNA

All our antennas are delivered tuned for the aviation frequency 108-136MHz, with crimped BNC plug.

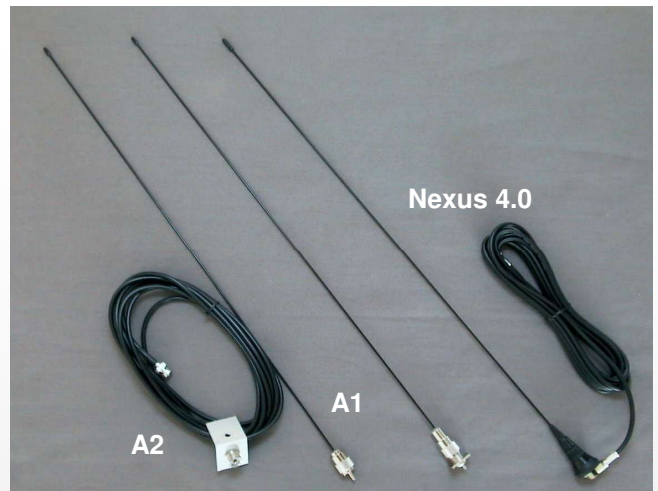
**ANTENNA 01** : Ultra light antenna, 58cm.  
Supplied with a 4m cable and BNC connector.

Ref **A1** 45€

**ANTENNA 02** : Same antenna as before but with a T-shaped aluminium support for an easily mounting on trikes.

Ref **A2** 55€

**ANTENNA NEXUS 4.0** : Top antenna with profiled black base. Supplied with a 5m cable and BNC connector.



### AIR BAND DIPOLE ANTENNA

The dipole antennas are insulated from ground to allow static reduction.

**ANTENNA NEXUS 4.1** : Dipole antenna 1/2 with loaded radial. Height : 76cm. Weight : 330grs. Supplied with a 4m cable and BNC connector.

Ref **NEXUS4.1** 69€



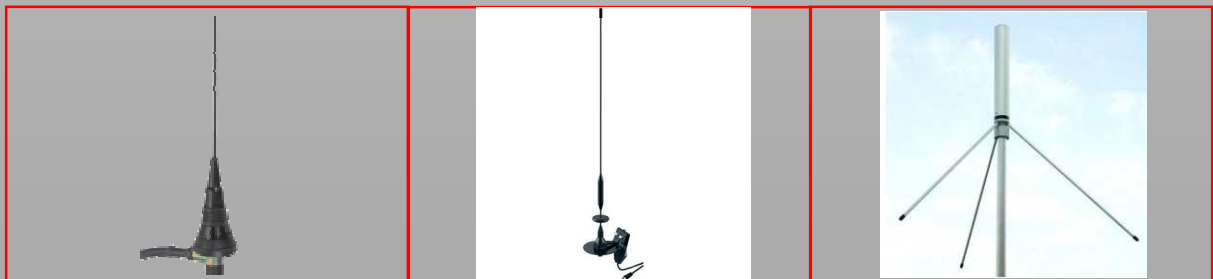
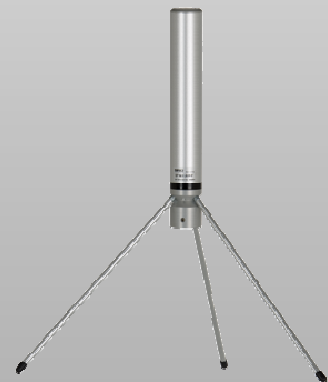
### BASE STATION ANTENNA

**GP108-136** : Very strong base station antenna made of anodized aluminum. Wide band. Omnidirectional, protection from static discharges.  
Mounting mast : 36-40mm  
Length : 95cm Weight : 1130grs

Ref **ANFIXE** 109€

**CAR DOOR SUPPORT** : Allow an easily mounting of your transceiver antenna on cars. To fix on the car door window. Supplied with cable and BNC connector. See below, the middle picture. Supplied without antenna and without base.

Ref **SUPVITR** 19€



## ACCESSORIES

### ENGINE NOISE FILTER NF-A13

This filter is specially designed for filtering noise interferences out of the 12V supply voltage for VHF transmitter or intercom.  
The unit corresponds to the directive 2004/108/EC for electromagnetic compatibility.

Very light : 80grs

Dimensions without cables : 55 x 40 x 22mm

Ref **NFA13**

**52€**



### FILTERING CAPACITOR

Available in 2 versions :

22000µf 50V, with cables

Ref **CONDOF**

**27€**

22000µf 25V with screws

Ref **CONDOV**

**35€**



### PANEL MOUNTING BRACKET FOR ICA25 ICOM

Cradle shaped. Allow to mount your ICA25 ICOM on the panel, using the belt clip. In black ABS. Supplied with fastening system.

Dim : 120 x 65 x 55mm. Weight : 80grs

Ref **MB25**

**48€**



### HAND MICROPHONE FOR ICOM ICA6-24FR11

For ground use.

Belt clip. Side PTT button. Straight cable 95cm length fitted with ICOM twin jack 3.5 & 2.5mm.

Dimensions : 70 x 55mm Weight : 70grs

Ref **MH-A17**

**79€**



### HEADSET POUCH

Black velvet headset pouch, with draw cord.

Dimensions : 32 x 22cm

Ref **HC**

**12€**



### HELMET BAG

Out side made with a strong black polyamide, In side made with black polar. Draw cord with stopper. Red ALPHATEC logo.

Designed for all ALPHATEC helmets.

Dimensions : 36 x 35 X 18 cm

Ref **SACC**

**26€**





## ACCESSORIES

### WIND SCREEN

Internal diameter adapted for our housing box microphone.

**Large model:** Large microphone windscreen, with a special form to offer a good protection against wind without weakening the voice.

For all open cockpit.

Ref : **BPGM**      **6.30€**

**Small model:** For closed cockpit.

Ref : **BOPM**      **3.80€**

### EAR SEALS

The ear seals must be replaced regularly to maintain a good level of noise attenuation, hygiene and comfort

#### Gel ear seals

Gel ear seals compatible with all our helmets fitted with S3 ear cups and PELTOR ear cups, except PREMIUM X5 series. For more comfort and more noise reduction.

Available with a self adhesive support ( after removing the original ear seals) or with PELTOR support to clips on ( only for PELTOR ear cups old models )

Pair of adhesive gel ear seals

Ref **ORGELA**      **26€**

Pair of gel ear seals with PELTOR support for PRO2/TITANE

Ref **ORGELP**      **40€**

#### Foam ear seals

Pair of spare ear seals, foam or oil and foam depending of the model of your headset.

Supplied with support to clip on your ear cups.

For PRO-PRO2-TITANE-TITANE2 headsets

Ref **ORPEL**      **13€**

For CLASSIC - CONFORT headsets

Ref **ORPC**      **16€**

For PREMIUM headsets

Ref **ORPP**      **16€**

For PREMIUM S3 headsets

Ref **ORS3**      **16€**

#### Adhesive foam ear seals without support to clip

For PREMIUM S3, S2 and Compact ear cups.

Ref **ORSC**      **8€**

### ADAPTATORS FOR HELMETS

These cables with impedance adaptor allow connecting a helmet and an intercom with two different standards.

Adaptor for ALPHATEC PRO or PRO2 helmet / aircraft intercom with twin jack

Ref **AD1**      **70€**

Adaptor for aircraft helmet with twin jack / ALPHATEC 903-ICA11-NEXUS 3.2/3.3 intercom

Ref **AD2**      **70€**

Adaptor for ALPHATEC PRO or PRO2 helmet / AUTOGYRO panel

Ref **AD3**      **50€**

Adaptor for aircraft helmet with twin jack / AUTOGYRO panel

Ref **AD4**      **70€**

Adaptor for ALPHATEC TITANE or PREMIUM single jack helmet / aircraft intercom twin jack

Ref **AD5**      **50€**

Adaptor for aircraft helmet twin jack / KOMPRESS panel - ICA12-ICA13 single jack intercom

Ref **AD6**      **70€**

Adaptor for TITANE or PREMIUM single jack helmet / Intercom 903-ICA11-NEXUS3.2

Ref **AD7**      **50€**

Adaptor for PRO or PRO2 ALPHATEC helmet / INTERCOM ICA12-ICA13 single jack

Ref **AD8**      **50€**



## VHF WIRES FOR SINGLE SEATERS

Allow connecting directly a helmet to an ICOM air band radio.

Two models available: ICA3-22 or ICA6-24-25. For others radios models or others brand radios, please contact us.

For use with BTR5-A22 kit, only the pilot listens to the radio and can transmit.

**NEXUS 4.5** : For fixed wings with a straight 2m20 PTT cable for joystick.

Ref **NEXUS4.5** 80€

**NEXUS 4.5P** : Same as before but with a spiral PTT cable and a large button.

Ref **NEXUS4.5P** 125€

**NEXUS 4.6** : For trikes. Waterproof PTT button integrated in a case to be mounted on a tube.

Ref **NEXUS4.6** 80€

## VHF WIRES FOR TWO SEATERS WITH 2 BTR5-A22 BLUETOOTH KITS

Allows you to connect 2 mono jack headsets equipped with the BTR5-A22 kit to an ICOM ICA25 radio. Pilot and passenger hear the radio.

**NEXUS 4.5B** : For fixed wings with a straight 2m20 PTT cable for joystick

Ref **NEXUS 4.5B** 140€

**NEXUS 4.5PB** : For trikes with a spiral PTT cable and a large button.

Ref **NEXUS4.5PB** 185€

## PTT

**SPIRAL PTT VELCRO** : Spiral cord with large PTT button integrated in a case with Velcro to be mounted easily on a tube.

With RCA male plug to connect on all our VHF wires

Ref **ASVR** 60€

With 3.5mm male jack plug to connect on ICOM OPC499 adaptor

Ref **ASVJ** 60€

**STRAIGHT CABLE PTT** : PTT button for joystick with 2m20 straight cable with RCA plug or 3.5mm jack male plug.

With RCA male plug

Ref **ALR** 19€

With 3.5mm jack male plug

Ref **ALJ** 19€

**STRAIGHT CABLE DOUBLE PTT** : 2 PTT buttons for joystick with 2m20 straight cables.

Ref **AD** 38€

## WIRING CABLES FOR PANEL MOUNT RADIOS

These wiring cables allow connecting 2 ultralight model or aircraft model headsets to a panel mount radio.

Are included a SUBD female connector and 2 cables 1m20 or 2m20 length to connect headsets, 1 12V supply cable, 1 intercom connection cable and a straight PTT cable.

Available for trikes with socket plugs integrated into housing box to be mounted on a tube, or for fixed wings with panel mount socket plugs. Length of headset cables must be specified at order time, and the exact model of radio.

Wiring cables with SUBD 15 pins for TQ KRT2 for trikes with ultralight ALPHATEC headsets single jack

390€

Wiring cables with SUBD 15 pins for TQ KRT2 for fixed wings with ultralight ALPHATEC headsets SJ

350€

Wiring cables with SUBD 15 pins for TQ KRT2 for fixed wings with aviation headsets twin jack

390€

Wiring cables with SUBD 25 pins for FILSER 833\* for trikes with ultralight ALPHATEC headsets single jack

420€

Wiring cables with SUBD 25 pins for FILSER 833\* for fixed wings with ultralight ALPHATEC headsets SJ

380€

Wiring cables with SUBD 25 pins for FILSER 833\* for fixed wings with aviation headsets twin jack

420€

\* At order time, you must specify the model of your radio : ATR833-1 or ATR833-2

Wiring cables with 2 SUBD for TRIG TY91 for fixed wings with aviation headsets twin jack\*\*

390€

\*\* Only sold with a TY91 radio

Bonus for a second PTT on all cables above

19€



# ORDER FORM

CUSTOMER DETAILS	
NAME	ADDRESS
FIRST NAME	
CUSTOMER NUMBER	
EMAIL ADDRESS	ZIP CODE
	CITY
PHONE NUMBER	COUNTRY

Purchase order date:

PLEASE, SEND ME				
REF	NAMES	QTY	UNIT PRICE	TOTAL AMOUNT
TOTAL COST				
CEE freight charges & insurance: 15€ for order ≤ at 250€				
CEE freight charges & insurance: 20€ for order ≥ at 251€ ≤ at 1000€				
CEE freight charges & insurance: 30€ for order ≥ at 1001€				
For others countries, please contact us				
Total cost freight charges included				

REGLEMENT	
<input type="checkbox"/> Bank transfer payment IBAN FR76 1350 6100 0003 7975 3800 159 BIC AGRIFRPP835	<input type="checkbox"/> Credit card payment Credit card number: <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> Expiry date: Cryptogram: Card holder name: Card holder signature:

To send by post office to ALPHATEC, 95 Rue des Castors ZAM de Pont des Charrettes, 30700 UZES France, or to email at [m.colorno@alphatec.fr](mailto:m.colorno@alphatec.fr)



## **SALES TERMS AND CONDITIONS**

### **BY PURCHASING PRODUCTS FROM ALPHATEC, YOU AGREE TO BE BOUND BY AND ACCEPT THIS PURCHASE TERMS.**

These Terms of Purchase shall be governed by the laws of country of France.

### **SHIPPING & DELIVERY**

All Shipments are made by prepaid Colissimo international within 72 hours, with insurance.

Delivery time: around 1 to 3 weeks. Purchaser shall examine all products upon receipt and shall notify ALPHATEC of all discrepancies or damages.

All products are shipped immediately to the Customer after a successful payment. The ownership of the Product is transferred to the Customer upon the delivery of the Product. The risks of accidental perish, theft, disappearance or damage to the Product shall pass to the customer upon the delivery of the Product. If we ship in error the incorrect product, please contact ALPHATEC within 72 hours of receiving the incorrect product to arrange for pickup and re-shipment of the correct product, at no charge to you.

### **PAYMENT**

Prepaid orders are only agreed. Two ways of payment are possible :

1. VISA & MASTERCARD credit card payment
3. Bank transfer: IBAN: FR76 1350 6100 0003 7975 3800 159 BIC AGRIFRPP835

### **PRICES**

All prices listed on this catalogue are quoted with French VAT and without shipping charges. Prices and specifications are subject to change without notice; therefore you should always check prices before making a purchase.

### **WARRANTY**

All products are under warranty up to 1 year. This warranty is only applicable to building defects or malfunctions.

Any degradation or evidence of misuse or non-Alphatec service attempt evidence voids warranty.

Transistors, Power amplifiers and battery packs are not warranted. Return shipping freight charges are your responsibility.

### **RETURN**

If you are not completely satisfied with your purchase for any reason, you may return the product, in "like new" condition within eight (8) days of receipt for an exchange or refund. Return shipping freight charges are your responsibility.

A discount of 5 to 10% will be charged if the product or the packing is damaged.

No return will be accepted for all special orders: products out of catalogue or special sizes.

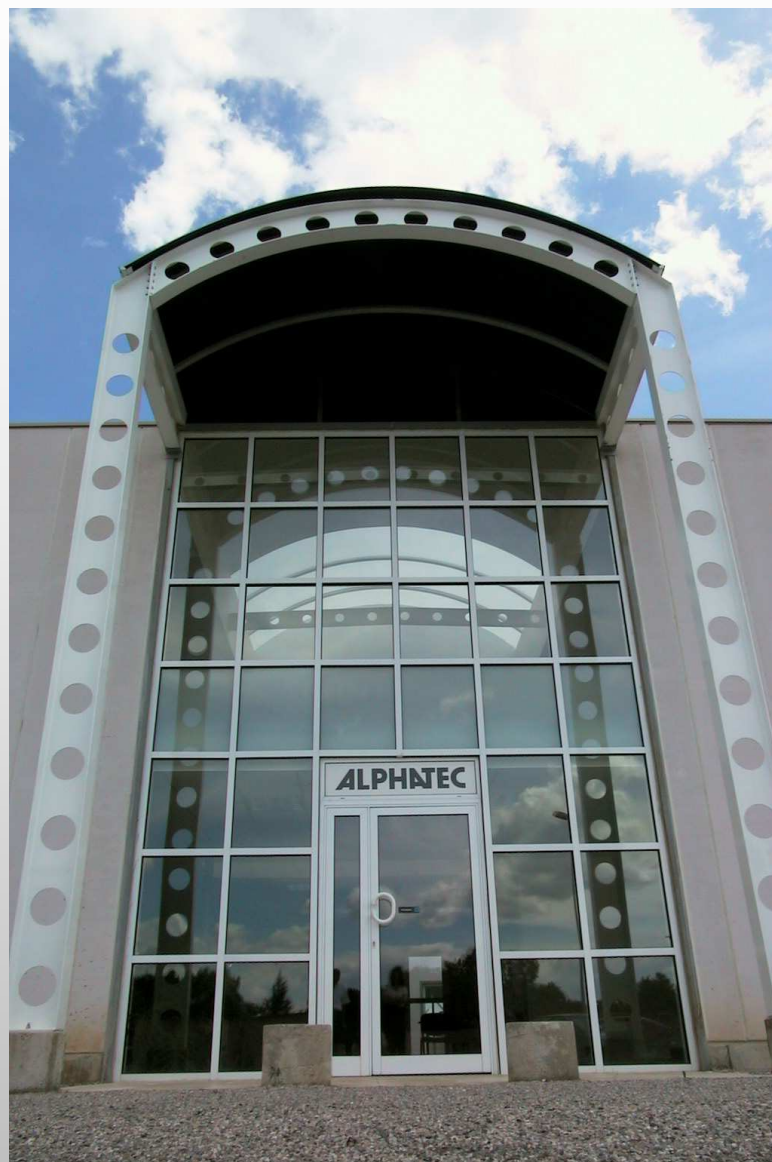
### **REPAIR**

We assure all the repairs of our products. Please, return the product out of order to the address mentioned on the back cover with a description of the issue and join a copy of the purchase invoice.

Return shipping freight charges are your responsibility.



**ALPHATEC**  
AVIONICS



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