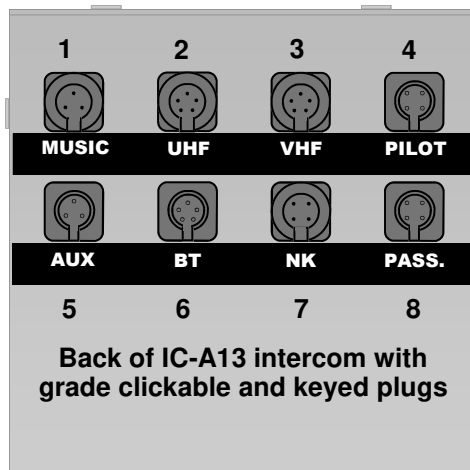




1. To connect a music source using the optional K13MU cord.
2. To connect an UHF radio (144 or 433 MHz) using the optional K13UHF suitable for the brand and model of your UHF radio.
3. To connect a VHF radio using the optional K13... suitable for the brand and model of your VHF radio.
4. To connect the pilot helmet using the optional CC13... cord.
5. To connect an audio source like a GPS, an audio alarm ... using the optional K13AUX cord.
6. To connect a cell phone using our BT-A11 Bluetooth adaptor, and using the optional K13BT cord.
7. To connect our optional NK-A13 noise killer filter, using the optional K13NK cord.
8. To connect the passenger helmet using the optional CC13... cord.



INTERCOM IC-A13 V2

Users manual

Version 2, February 2024



Panel mount mono intercom 57mm inlay diameter for ultralight & light planes, voice activated with adjustable squelch.

Civil aviation standard.

A high range multi-purpose model.

CMS Technology.
12V DC Power supply from external battery or plane circuit.

V2 model with new electronics adapted to the new 8.33 radios with AGC system, and new black plastic case



NB : All unused wires must be insulated with heat shrink tubing.

Numerous interfaces/connectors :

- VHF radio with automatic lowering of passenger level when pilot emits.
- UHF radio or second VHF radio (hang gliding, ...)
- Cell phone with our Bluetooth BTA-11 adaptor (sold apart)
- Music input for MP3 player with automatic level lowering when pilot or passenger speaks, or upon receipt of a VHF message.
- Additional auxiliary in/out plug.
- Digital noise Killer filter (sold apart)

Squelch and volume control on panel.

Vocal activation can be completely bypassed.

Music input can be disabled on front panel.

The passenger circuit can be completely isolated when 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 10mm plugs.

Housing dimensions : H. 64mm x W. 64mm x D. 50mm

Depth for mounting : 95mm with cables connectors

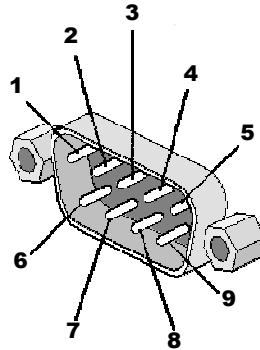
Weight : 165grs Weight with Power cord : 195grs

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Supplied with 12V DC Power cord connected via DB 9 plug, with all PTT input :

- Pin 1 : 0 Volt / PTT ground and frequencies shifting (black wires)
- Pin 2 : UHF PTT (brown wire)
- Pin 3 : VHF frequency shifting (purple wire)
- Pin 4 : VHF PTT passenger/copilot (grey wire)
- Pin 5 : VHF PTT pilot (white wire)
- Pin 6 et 7 : Pick up, Hang up, vocal dial for cell phone via Bluetooth for BT-A11 adapter sold apart (blue wire)
- Pin 8 : Unused
- Pin 9 : + 12 volts DC (red wire)



Fuse to install : 200mA

It is advisable to connect the intercom on a buffer battery instead of the rectifier which does not allow to have a well regulated current, even to use a high current noise suppressor as the NF-A13 filter.

CONNECTION

See in page 4

OPERATING

After starting the engine, put the ON/OFF switch to ON. Turn to OFF at the end of each flight.

SQUELCH SETTING

Increase or decrease the squelch level (VOX) by turning the left knob. Turn this knob to the right until the background noises can no longer activated the VOX, while being able to activate easily with the voice. You must speak loud and clear from the first syllable. Squelch settings must be regularly changed depending on the ambient noises. If you are unable to get a good setting is that the microphones of yours headsets are not suitable to the ambient noise of your plane. *You must replace them for a noise cancelling microphone as our TITANE2 microphone.* *Your microphones can also be disturbed by the relative wind. In this case, use a large microphone windscreen.*

VOLUME SETTING

Increase or decrease the volume level by turning the right knob. The intercom is power full, optimal setting is between noon and 3 o'clock. By setting a highest volume, you may amplify the ambient noises that pass into your microphones. If you need a highest volume, is that your headsets are not noise cancelling enough. Volume control acts on the two headsets. You can then change the volume of your headset by turning the volume knob on your headset.

SWITCH NOISE K.

If you have connected the NK-A13 noise killer filter on back of the ICA-13 intercom, put the NOISE K. switch to ON to activate the filter. Otherwise, this switch must remain on OFF.

SWITCH MUSIC

If you have connected a MP3 player or other music source on back of the ICA-13 intercom, via the optional K13MU cord, put the MUSIC switch to ON to activate the music, then to OFF to stop it. If no music source is connected to your intercom, this switch must remain on OFF.

SWITCH PASS.

When this switch is turn to ON, your passenger hear all the on board communications : intercom, VHF radio or Cell phone. If you need to phone without your passenger hearing conversation, you can completely isolate the passenger by putting the switch PASS. to OFF. (his microphone and speakers are disconnected)

VHF RADIO OPERATION

Always remove the local radio control, or SIDE TONE, as well as the INTERCOM function from your VHF radio. To do this, refer to the user manual for your radio.

The VHF radio connected on the ICA-13 intercom is not voice activated. You must push on the PTT button (supplied apart) to transmit and release it after. Receiving and transmitting radio are on the both headsets : to prevent your passenger speaks while you are speaking with air control, you can isolate it by putting the switch PASS. to OFF during your transmission. Likewise, if your plane is fitted with two PTT button, make sure your passenger will not transmit accidentally.

NOTA :

The ICA-13 intercom is not sensitive to interference.

VHF radio may be sensitive to interference.

To prevent problems caused by interference, you must use shielded cable, you must shield the spark plug cap, and you must make sure that your antenna is tuned, with a good ground plane. If you still have problems despite all these precautions, we can install our NF-A13 noise engine filter .

MUSIC OPERATION

The music level is automatically lowering when pilot or passenger speaks or upon receipt of a VHF message.

AUXILIARY IN/OUT OPERATION

You need the optional K13AUX cord, fitted with a red RCA female plug and a black RCA female plug.

The red plug is an audio output line level, for recording on-board communication. The black plug is an audio input for receiving information or alarm from GPS or others instruments ...

To use the NK-A13 filter and the BT-A11 Bluetooth adapter, please refer to the manuals instructions supplied with these devices.