



DESIGN 4 PILOTS



PM6

AVIATION HEADSET

USER MANUAL





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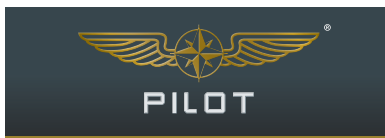
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1) GENERAL

1.1. INTRODUCTION

Thank you for purchasing this Design4Pilots product. This manual contains important instructions for setting up and operating your PM6 Aviation Headset. Please take a few minutes to read the instructions below carefully before operating the equipment. Please keep the manual for future reference.

1.2. FEATURES AND PRODUCT SCOPE

The PM6 (PILOT MULTIFUNCTION with SIX main features) headset is for General Aviation purposes. The following main features characterize the device:

- Active noise reduction (ANR)
- Built-in CO detector
- Stepless adjustable headband
- Two map-light LEDs
- Bluetooth (BT)
- Auxiliary socket (AUX)



1.3. PURPOSE OF THE DOCUMENTATION

In this document you will find instructions to help you operate the device safely. Keep this manual carefully in a place that is meaningful and easily accessible to the personnel that use the device. You can download this manual from our website www.design4pilots.com

2) SAFETY AND ENVIRONMENT



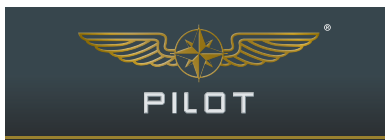
Always inform anyone who operates the device about the operation instructions. Always pass this manual if you pass on the product. Make sure that this section has been carefully read and understood by anyone who operates the device.

Events, problems and faults on the device can present a safety risk if you are unaware of the precautions to be taken to avoid such eventualities and safeguard the device against them.

This section:

- defines the appropriate use of the device
- contains generally applicable and observable safety instructions and regulations
- explains the meaning of the symbols and pictograms
- provides information on the dangers and residual risks which can occur even when the device is used properly

Special handling and situational safety instructions are provided in the following sections of this instruction manual, as and when these are applicable. The device conforms to the latest technology available at the time it was supplied, and was constructed in accordance with recognized safety regulations. The standards adhered to in the construction of the device are listed in the declaration of conformity. Nevertheless, the device can represent a source of danger if the safety instructions in this document are not followed and implemented.



2.1. APPROPRIATE USE

To operate safely, the device must only be used for its appropriate use. This headset is designed for pilots to communicate over intercom and Bluetooth. Music can be enjoyed via Bluetooth or the AUX audio input. Any other use is not permitted.

Appropriate use also includes:

- observing all safety instructions and notes in this operating manual
- ensuring that the cleaning is done regularly
- ensuring that only original parts are used



The device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.

Ambient conditions: Air temperature in operation $-20\text{ }^{\circ}\text{C}$ to $+55\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $+131\text{ }^{\circ}\text{F}$)

Always run the device under the ambient conditions and temperatures listed above. The device may be damaged if it is operated in conditions other than those as described, which will create unpredictable risks. In Temperatures below $1\text{ }^{\circ}\text{C}/32\text{ }^{\circ}\text{F}$ it is recommended that you avoid storing your PM6 in the aircraft. In these cold environments it might take a few minutes for the ear cup seals to warm up and provide you with a proper fit and best noise cancelling performance. We recommend that you wear the for your start up sequence/checklist prior to engine start in order for the ear cup seals to warm up.



Only use the device appropriately and in a perfectly safe condition. This is the only way to guarantee the operational safety of the device.

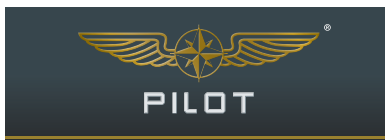
2.2. SAFETY INSTRUCTIONS

Knowledge of the basic safety instructions and work safety regulations is required in order to operate the device safely and without faults.

- Please read these instructions carefully and completely before using the headset.
- Make these instructions easily accessible to all users at all times. Always include these instructions when passing the headset on to third parties.
- Only operate the device using the accessories supplied. The use of other parts may cause accidents.
- Do not expose the device to constantly direct sunlight, excessive dust or moisture, rain, vibrations or shocks.
- During flight operations, do not use the headset for telephone calls.
- It is the responsibility of each aircraft operator or pilot in command to determine that any and all portable devices will be free of any interference with the navigation or communication system of the aircraft. In addition, it is their responsibility to determine the suitability of the performance of portable devices in relation to the use of the PM6.
- The device is capable of producing sound pressure levels exceeding 85 dB(A). In many countries 85 dB(A) is the maximum legally permissible level for continuous noise exposure during the working day.



WARNING! Exposure to sounds of higher volume levels or longer durations can permanently damage your hearing.



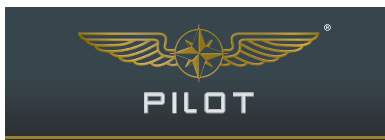
- Do not remove covers under any circumstances. There are no parts inside that can be repaired by the user. Repairs must only be carried out by an authorized specialist.
- Do not immerse the device in water or any other liquid.
- Make sure that the cable does not cause a trip hazard.
- Avoid bending or stretching the cable.
- If the cable is damaged, it must be replaced.
- Pay attention to the correct polarity and voltage when inserting the batteries.
- Batteries may cause a fire or chemical burn if mishandled. Do not recharge, disassemble, heat, or incinerate.
- If you do not use the headset over a long period (over a month), remove the batteries to prevent leakage.
- Dispose of the batteries in an environmentally friendly manner. The batteries must not be disposed of with household waste. Dispose of the batteries at a public collection point.
WARNING! Choking hazard. Keep the batteries away from children.
- Do not leave any packaging (cardboard, etc.), the replacement windshield-foam or spare batteries within reach of children.
- Young children should be supervised to ensure they do not play with the appliance.
- Operate the device with particular caution if children are present.

2.3. HEARING SAFETY



DANGER OF HEARING DAMAGE! Exposure to loud sounds during long time may cause hearing damage. Avoid setting the volume controls at levels high enough to impair your hearing during extended periods of headset use.

- Make sure the aircraft communications system volume control is easily accessible. This control affects the strength of the communications signal coming into the headset.
- Make sure you can understand critical communications even with Active Noise Reduction mode turned off. In this case, you may need to turn up the aircraft communications system volume.
- With the headset's active and passive noise reduction, typical aircraft sounds (such as engines, propellers, warning alarms, and other sound sources) may not sound familiar. Make sure you can hear and recognize these sounds when using the PM6 while operating any aircraft.
- When listening to in-flight entertainment, or a portable audio source through the PM6, be sure to limit the volume to safe levels that do not interfere with your ability to hear informational sounds and warning alarms, such as warnings or gear up, while piloting.



3) DESCRIPTION

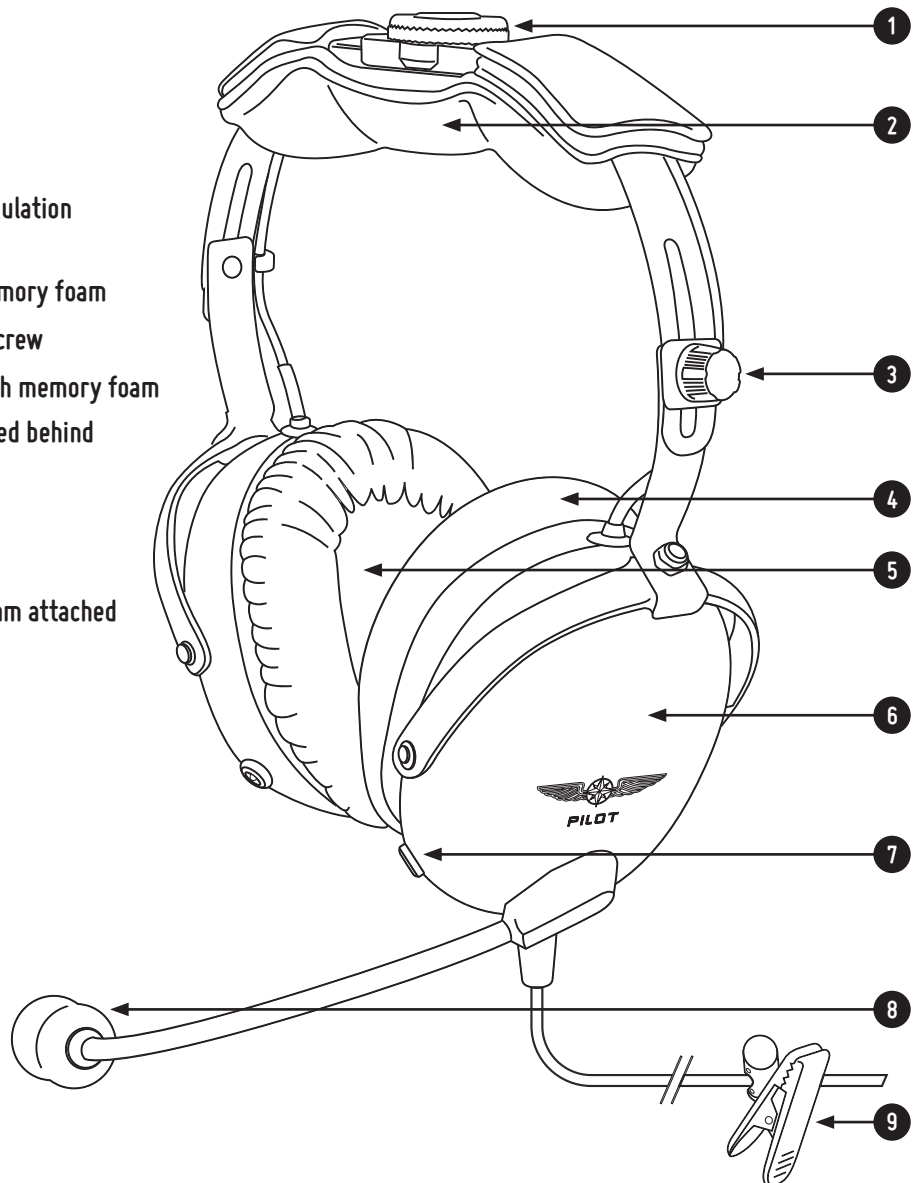
3.1. SCOPE OF SUPPLY

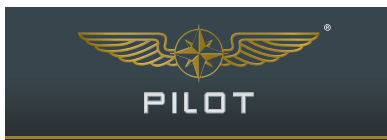
Check that the packaging contains all of the items listed for your system.
If anything is missing, please contact your D4P dealer.

- 1 x PM6 Aviation Headset
- 1 x Controller
- 2 x AA-Alkaline Batteries
- 1 x Cable Clip
- 1 x Suction Cup Clip
- 1 x Quick Reference Guide
- 1 x Headset Bag

3.2. PM6 AVIATION HEADSET

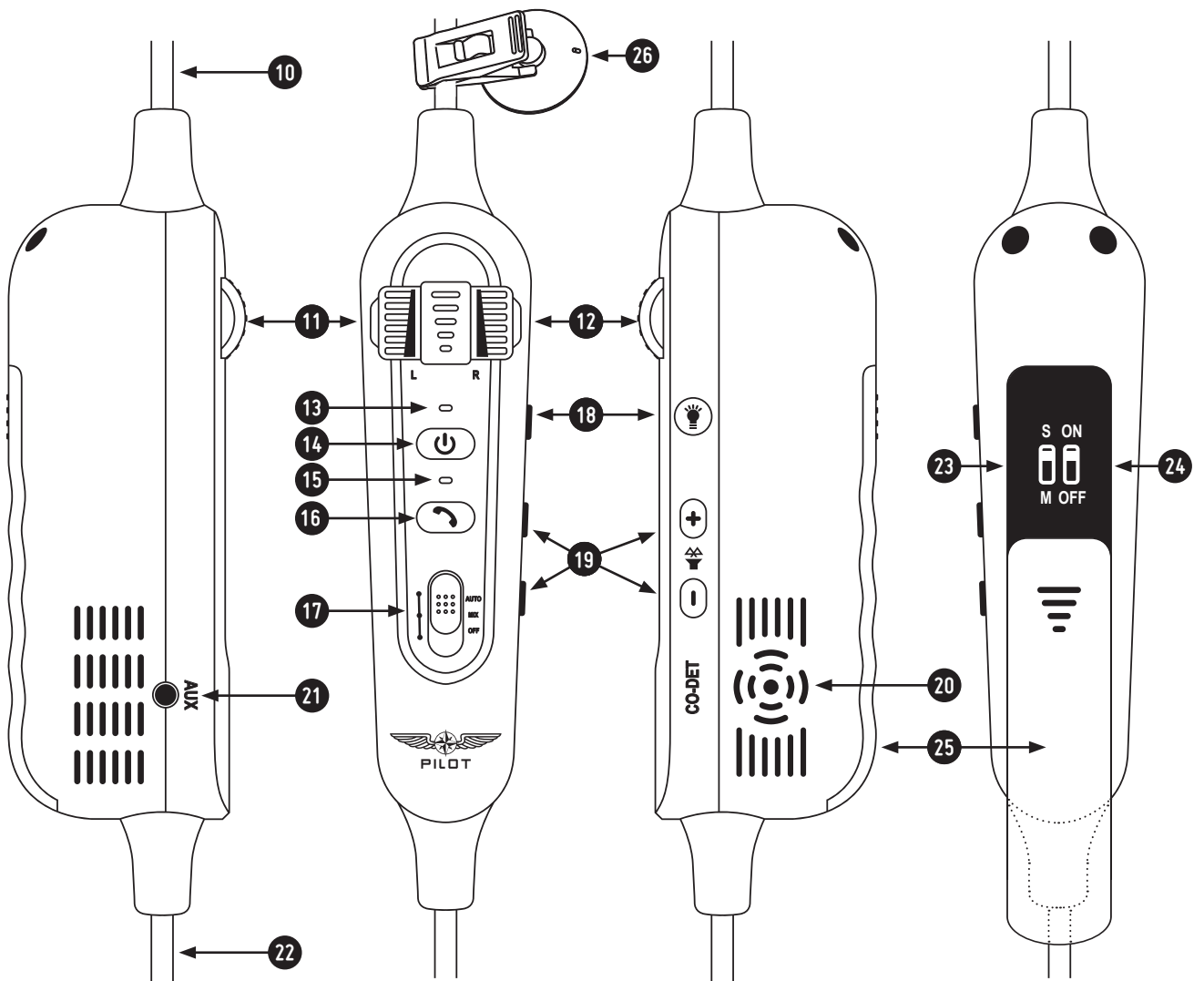
- ① Adjustable headband for the regulation of the contact pressure
- ② Cushion in Merino wool with memory foam
- ③ Bow extension by opening the screw
- ④ Protein leather ear cushions with memory foam
- ⑤ Microphone & speaker vent located behind a micro-perf stamped disc
- ⑥ Ear cups in CFK material
- ⑦ LED map-lights: both ear cups
- ⑧ Microphone with windshield-foam attached
- ⑨ Cable Clip / Strain relief

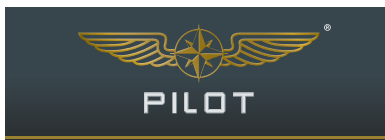




3.3. CONTROLLER

- 10 Cable to aircraft panel
- 11 Left volume control
- 12 Right volume control
- 13 Power LED
- 14 Power button
- 15 Bluetooth LED
- 16 Bluetooth button
- 17 Source priority slide switch (AUTO/MIX/OFF)
- 18 Map light button
- 19 Bluetooth/AUX volume control
- 20 Built-in CO detector and CO visual indicator (CO-DET)
- 21 Auxiliary audio input (AUX)
- 22 Cable to headset
- 23 Mono/Stereo Switch (M/S)
- 24 Automatic Switch (ON/OFF)
- 25 Battery cover
- 26 Suction cup clip

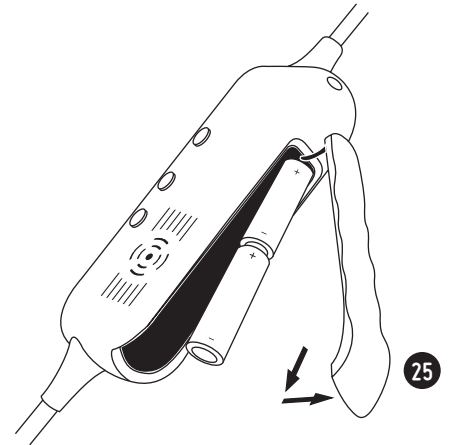




4) SETTING UP

4.1. INSERTING AND REPLACING BATTERIES IN THE CONTROLLER

- Open (pull down) and remove the battery cover **25**.
- Insert two AA batteries with 1,5V/piece into the battery compartment to conform with the polarity marks (+/-). If the batteries are inserted incorrectly, the device will not work.
- Close the battery cover.



This product is built for use with regular disposable batteries. Rechargeable batteries or lithium batteries may be used but may influence the correct function of the low power indication. Please note that rechargeable batteries cannot be charged in the PM6 control module.

4.2. WEARING THE HEADSET / ADJUST THE HEADPHONES

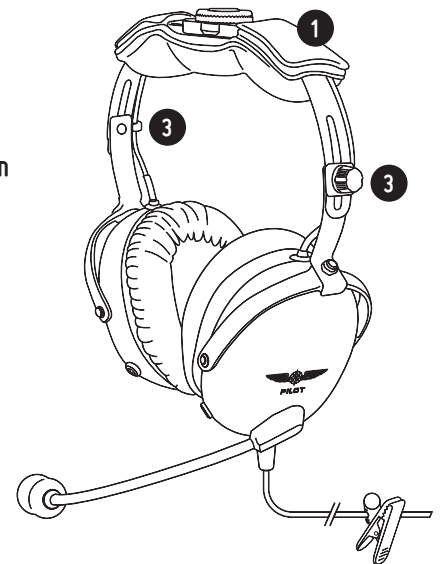
Proper fit on your head is important both for comfort and optimal noise reduction performance. Use the bow extensions **3** by opening the screw to slide the headband to your desired size. Bring the adjustable headband screw **1** in the narrowest position and slowly rotate to the widest position so that you can set the optimum contact pressure for yourself which you can adjust during the flight as well.

Make sure that:

- the cushion is completely over your ear.
- you feel a gentle pressure all around each ear.

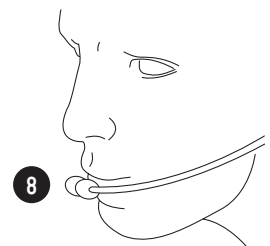


Wearing large earrings or glasses with very thick earpieces may affect the Noise cancelling performance.



4.3. ADJUST THE MICROPHONE

The position of the microphone **8** in front of your lips is important for clear communications. Adjust the microphone in front of your lips with the headset on your head. The correct distance between your lips and the microphone is approximately 1cm.



4.4. ATTACH THE CABLE CLIP

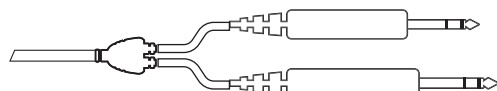
Use the cable clip **9** to attach the cable to your clothing:

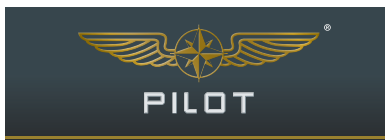
- press the button to position the clip along the cable.
- press the clip to attach on your cloth.



4.5. CONNECTING THE PM6 TO THE AIRCRAFT PANEL

Please use the supplied PJ connectors to plug in on your aircraft panel.





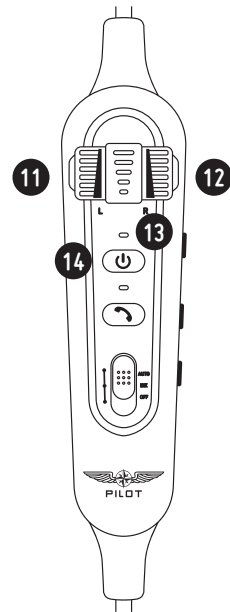
5) OPERATION

5.1. SWITCHING ON THE PM6

Press the Power button  **14** two seconds to switch on the PM6.

Observe the Power LED **13**:

- LED flashes **GREEN**, Power is ON and batteries are good.
- LED flashes **ORANGE**, Power is ON but the batteries are medium.
- LED flashes **RED**, Power is ON but batteries are low. Replace as soon as possible.
- LED is OFF, Power is OFF or batteries are depleted. Replace as soon as possible.
- LED is OFF, batteries are depleted or not inserted means the headset works but without ANR, BT, AUX, LED and CO-detection.




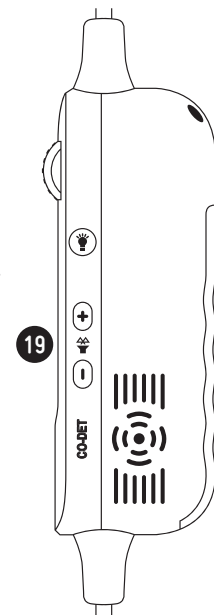
5.2. VOLUME CONTROL



DANGER OF HEARING DAMAGE! Exposure to loud sounds may cause hearing damage! Avoid setting the volume levels too high.

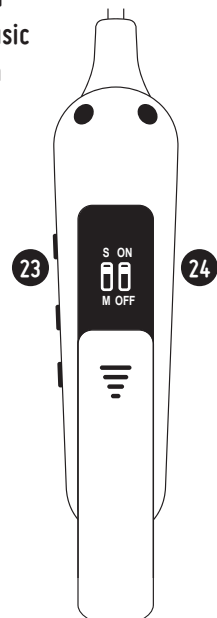
Adjust the volume level with the two volume control wheels **11** **12**.

- Use the left wheel **11** to adjust volume of the left earcup.
- Use the right wheel **12** to adjust volume of the right earcup.
- Use the Bluetooth/AUX volume control  +/- **19** for loudness of your Bluetooth/AUX signal. Please notice that the two volume wheels function as „master volume “so they must always be turned on to some degree to hear Bluetooth or AUX signals.



5.3. CHANGING THE MONO/STEREO MODE

- Use the slide switch S/M **23** to switch between the MONO or STEREO mode. If you hear the intercom only one side, select the MONO mode. If the aircraft has a stereo intercom, select the STEREO mode.
- Automatic switch ON/OFF **24**: When the headset is not connected to the intercom and button position is ON, the headset will automatically turned off after 10 minutes when there is no music playing. With music playing the headset will automatically turn off after 60 minutes. If button position is OFF the headset will not automatically turn off.

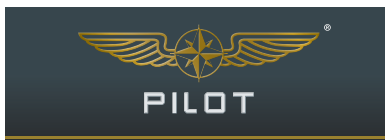


5.4. INTELLIGENT POWER MANAGEMENT

When you unplug the PM6 or power down your aircraft panel and the PM6 is in stand by status and no music is playing, the PM6 will power down after 10 minutes to preserve battery power.



Note about Intelligent Power Management: If you are in a phone call please don't unplug the PM6 from the aircraft panel, so you will be able to complete your call as the microphone will not work on a battery basis.



5.5. USING AUX INPUT

Connect the PM6 with an external audio device over the 1/8" AUX input **21**.

Use the correct cable to connect the device.

- Plug the cable into the headphone jack on your external device and in the AUX input.
- Raise the audio output volume of the connected device to min. 80 %.
- Use the Bluetooth / AUX volume control **19** to achieve the desired volume.

INFO None of the functions of a connected external audio device are controlled by the Control module. When a Bluetooth audio signal is detected, the AUX audio is muted!

5.6. SETTING THE AUDIO PRIORITY

Choose the priority of the audio input while using the PM6.

Use the source priority slide switch **17** for the adjustments:

- OFF – Only the intercom audio signal is forwarded to the PM6.
- MIX – When an intercom audio signal is detected, the Bluetooth audio signal or AUX audio is mixed with the intercom audio signal and forwarded to the PM6.
- AUTO – When an intercom audio signal is detected, the Bluetooth audio signal or AUX audio is muted. Only the intercom audio signal is forwarded to the PM6. As soon as the intercom audio signal stops (with a 3 sec. delay) the Bluetooth or AUX audio signal is forwarded to the PM6 again.

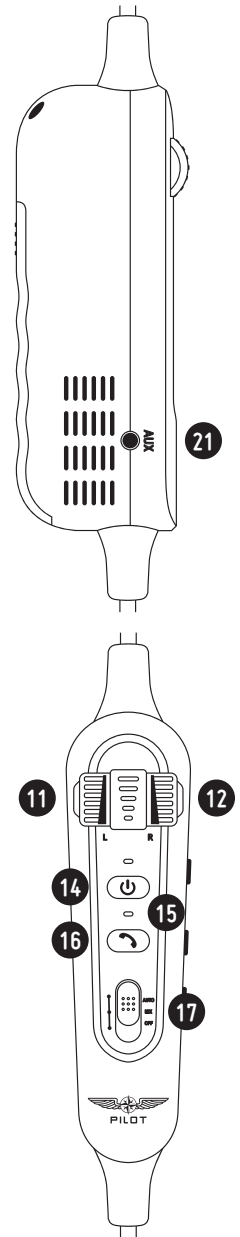
INFO In Position OFF you will only be able to hear the intercom audio signal. You will not be able to hear Bluetooth audio, AUX audio or voice prompts!

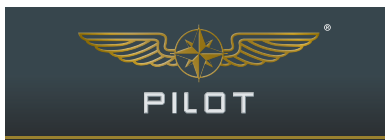
5.7. BLUETOOTH FUNCTION

INFO Activating Bluetooth Audible voice prompts will help you to establish the connections. To hear them please make sure the left volume control **11** and/or right volume control **12** are set to a decent level and the source priority slide switch **17** is set to AUTO or MIX.

- Press the Power button **14** two seconds and turn on the PM6.
- Press the Bluetooth button **16** two seconds to activate the Bluetooth function. The Bluetooth LED **15** will flash blue (for details see blink pattern table at the end of this section). If your phone was paired to this PM6 before the connection will establish automatically. In this case disregard the following steps.
- Make sure Bluetooth is activated on the mobile phone. Press the Bluetooth Button **16** long to enter the pairing mode.
- If the PM6 appears in the list of devices on your phone, select and confirm it.
- As soon as the connection is established you are ready to use your PM6 as Bluetooth headset. Please be aware that for full functionality the PM6 must always be plugged into the aircraft panel!

INFO The PM6 will automatically exit pairing mode after five minutes of inactivity. If the pairing is not successful, repeat the previous steps.






BLUETOOTH VOLUME CONTROL




DANGER OF HEARING DAMAGE! Exposure to loud sounds may cause hearing damage! Avoid setting the volume levels too high.

You can only adjust the Bluetooth volume during an active phone call or while listening to music. Adjust the incoming Bluetooth volume level with the Bluetooth/AUX volume control  +/- **19** . If you have reached the end of the volume scale a „beep“ will indicate that.

Bluetooth LED **15**

- LED flashes regularly **RED** Batteries are empty
- LED flashes regularly **BLUE**..... Bluetooth is activated, but no connection is established
- LED flashes fast **BLUE** and **RED** PM6 is in pairing mode
- LED double flashes **BLUE**..... PM6 is receiving a Bluetooth audio signal
- LED double flashes **RED** Bluetooth is ON but NOT connected to a phone
- LED triple flashes **BLUE** Bluetooth is ON and connected to a phone
- LED triple flashes slowly **BLUE** PM6 is in an active phone call

RECONNECTING AND RECOVERING BLUETOOTH CONNECTION

The Bluetooth connection is disconnected when the PM6 is switched off. To reconnect the PM6 to a previously connected phone or other Bluetooth devices turn on Bluetooth by briefly pressing the Bluetooth button  **16** . If you press the Bluetooth button for more than 5 seconds, the PM6 enters pairing mode to be connected to a new phone.



The PM6 can only be connected to one Bluetooth device at a time. Constant use of Bluetooth will decrease the battery lifetime.



CALLING WITH THE PM6

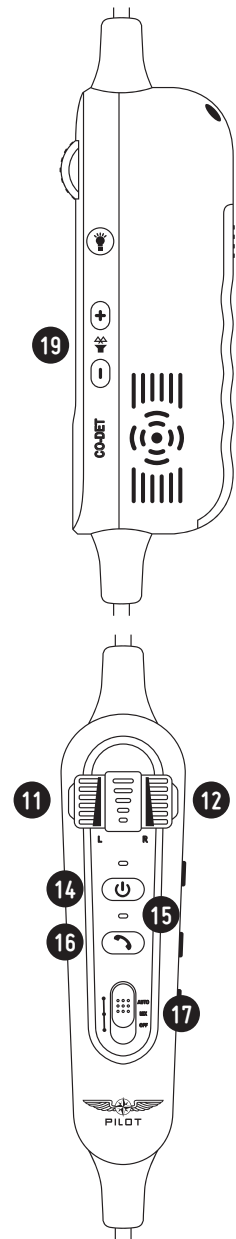
- **MAKE A CALL** – Dial from your mobile phone, the call will automatically transfer to the headset.
- **ANSWER A CALL** – Briefly press the Bluetooth button.
- **END A CALL** – Briefly press the Bluetooth button.
- **REJECT AN INCOMING CALL** – Press the Bluetooth button for more than two seconds.

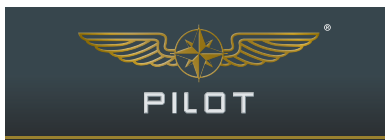


Whether or not you can reject an incoming call depends on the capabilities of your phone.


ENJOY MUSIC VIA BLUETOOTH

- **PLAY MUSIC** – Playing music on your Bluetooth device (e.g. phone) will automatically transfer the sound to the headset.
- **PLAY/PAUSE MUSIC** – Press the Bluetooth button  **16** to switch between play and pause. A long click on the + button of the Bluetooth volume control  +/- **19** will let you jump one song forward, on the – button will let you jump one song backward (if supported by your phone).






5.8. LED MAP LIGHTS

Press the map light button  **18** to activate the map lights on both ear cups. Pressing the button again will switch off the lights.

INFO Constant use of the map lights will decrease the battery lifetime. Do not look directly into the lights.

5.9. CARBON MONOXIDE (CO) DETECTOR

After press the Power button  **14** two seconds, the sensor starts self-test, the red LED of the CO indicator **20** lights up, and the red LED turns off after 15 seconds of self-test. If not, there is something wrong with the sensor and it will be indicated by a steady red LED.

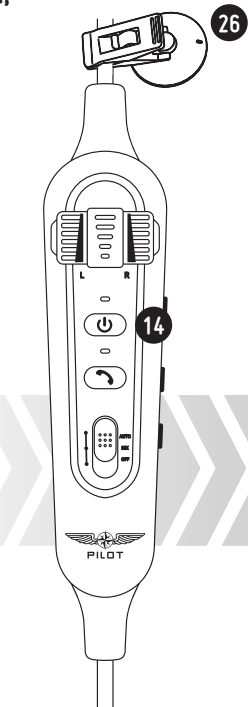
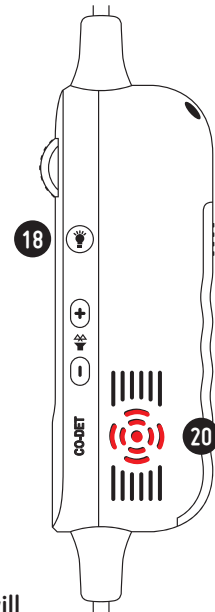
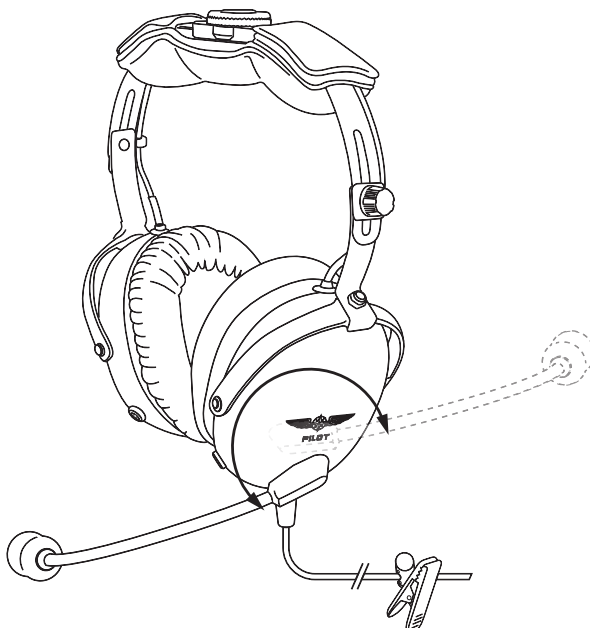
When the measured CO value is higher than the threshold of 50 ppm, the earphone will start to play an alarm voice message „CAUTION CARBONE MONOXIDE“ 3 times and the red LED of the control box will flashing. The alarm voice will alarm every 30 seconds, as long as the value of CO is more than 50 ppm, if it falls below 50 ppm the alarm voice message and the flashing red LED both going off.

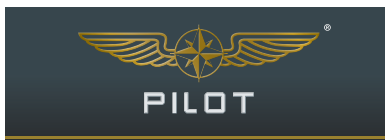


Please make sure that the openings around the CO detector remain free and are not covered in order to obtain a correct measurement! If the inlets are dirty, they must be cleaned and checked before each flight to make sure they are free of dirt! Mounting the Controller to the aircraft panel by using the Suction Cup Clip **26** to see the visual warning message.

5.10. ATTACHING THE MICROPHONE

The PM6 is shipped with the microphone attached to the left earcup. You can turn the microphone boom on the other side but in this case, you can't use the map-light LEDs.





6) CLEANING



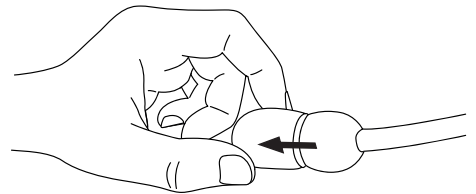
DAMAGE OF DEVICE! Water damage because of water inside the device. Never immerse the device in water or any other liquid. Never clean the device under running water. Make sure that no water gets into the housing. Damaged surface because of aggressive cleaning agents. Do not use any aggressive cleaning agents, brushes with metal or nylon bristles, or sharp or metallic cleaning objects such as knives, hard scrapers or similar.

6.1. CLEANING THE SURFACES

Use a soft cloth moistened with water to clean the plastic parts of the headset. Make sure no water enters any opening of the headset!

6.2. CLEANING THE MICROPHONE

- Remove the windscreen foam. To remove the windscreen, hold the foam tightly with two fingers so you actually pull on the plastic holder underneath. The foam and its plastic holder will come off.
- Rinse it with water and then air dry the windscreen. Make sure the windscreen is completely dry before reattachment.



6.3. CLEANING THE EARCUPS

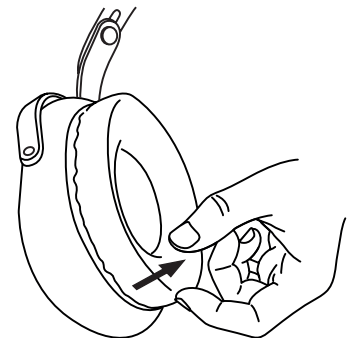
Never blow air into the openings or vacuum the openings. The foam in the ear cups is a function-relevant part. Do not remove it unless you want to replace it with a spare part.

7) MAINTENANCE

7.1. REPLACING THE EAR CUSHION

Replace ear cushions every six months or every 350 hours of use, depending on how often you fly. If the cushions are damaged, e.g. cuts or tears, replace it also.

- Grasp the ear cushion skirt where it folds into the slot on the earcup.
- Gently pull the ear cushion skirt up and away from the earcup.
- Align the new cushion with the earcup.
- Carefully slide the new cushion onto the earcup.

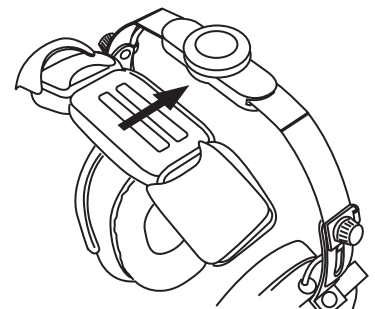


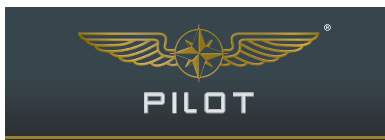
7.2. REPLACING THE CUSHION HEADBAND

The headband cushion is designed to give the maximum level of comfort to your headset.

To replace the cushion:

- Remove the old cushion from the headband.
- While still holding the headband open, align the center of the new cushion with the center of the headband and press firmly from the center toward the outside. Finally fix the new headband with the velcros on the right/left upper side.





8) TROUBLESHOOTING



DANGER OF DEVICE! Risk of damage because of opening the device.
Only authorized personnel may open the device for troubleshooting.

PROBLEM	POSSIBLE CAUSE	REMEDY
The microphone is not working	The PM6 headset not plugged into the aircraft control panel or the control panel is not powered	Plug the PM6 headset into the control panel and/or power up the control panel
The Power LED does not light after switching on	The batteries are empty The aircraft fuse is defective	Replace the batteries Check the aircraft fuse
The PM6 headset does not react to any button press	The operation of the headset is faulty or the batteries are empty	Replace the batteries
The PM6 headset cannot be paired	The pairing does not work	Make sure the phone is switched on, in range of a Bluetooth signal and Bluetooth is activated
Intercom is hardly audible	The aircraft panel audio output is too low or there is a misbalance between the different in audio sources	Adjust the volume of your aircraft panel first while the volume wheels are turned half way up. Then subsequently raise the volume on your paired Bluetooth device or the device connected to the AUX input
Intercom can be only heard in one ear	Dashboard only provides a mono signal	Switch the Mono/Stereo Switch on the control unit to position MONO
Bluetooth audio or AUX audio is not audible	The source priority slide switch is switched to OFF Left and right volume wheels are turned to minimum	Switch the source priority slide switch to AUTO or MIX Turn up the volume wheels
The PM6 headset powers down after some minutes	The batteries are getting empty The microphone is not connected to the dashboard or the dashboard is not powered up	Replace the batteries Plug the microphone in the (powered up) dashboard
I can't be heard when I make a call via Bluetooth	The microphone has a problem	Change the microphone

If the error persists despite these instructions, contact your D4P dealer immediately.



9) WARRANTY CONDITIONS

Design4Pilots assumes no responsibility for damage caused if:

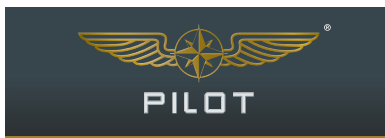
- the device is used for tasks other than the intended tasks
- damage is caused by incorrect operation
- damage is caused by inadequate or incorrect maintenance
- original spare parts approved by D4P are not used
- unauthorized or improper modifications and maintenance operations are carried out (without prior discussion with D4P)
- damage is caused because documents are not kept up to date
- damage is caused by incorrect set up of the device
- damage is caused by chemical, electrochemical or electrical influences

Should there be a problem with the product, see the dealer where you purchased the product first. If this is not possible, please get in touch with D4P. To find the appropriate address please visit

www.design4pilots.com

10) CERTIFICATIONS





11) SPECIFICATIONS

HEADPHONE

Type:	Dynamic
Frequency Response:	50 Hz to 20 kHz
Sensitivity:	95 ±5 dB SPL (1 kHz, 1 mW input per earcup side) full volume on ear simulator

ACTIVE NOISE ATTENUATION

Dynamic:	32 ohms
Rate Input:	15 mW
Max. Input:	30 mW

SPEECH SOUND

Dynamic:	300 ohms
Rate Input:	5 mW
Max. Input:	10 mW

MICROPHONE AND AMPLIFIER

Element Type:	Noise-canceling electret
Frequency Response:	1 kHz
Operating Voltage (supplied by aircraft):	1.0-10 Volts DC
Matching Impedance:	2.2k ohms
Sensitivity:	-35 ±2 dB (Ref: 0dB SPL=20.0uPa at 1 kHz with 10 Vdc 150 ohms AC load)

INTERCOM CONNECTIONS

Earphone Plug:	PJ-055 (.25 6.3 phone plug)
Microphone Plug:	PJ-068 (.206 5.2 phone plug)

ANR NOISE REDUCTION SPECIFICATIONS

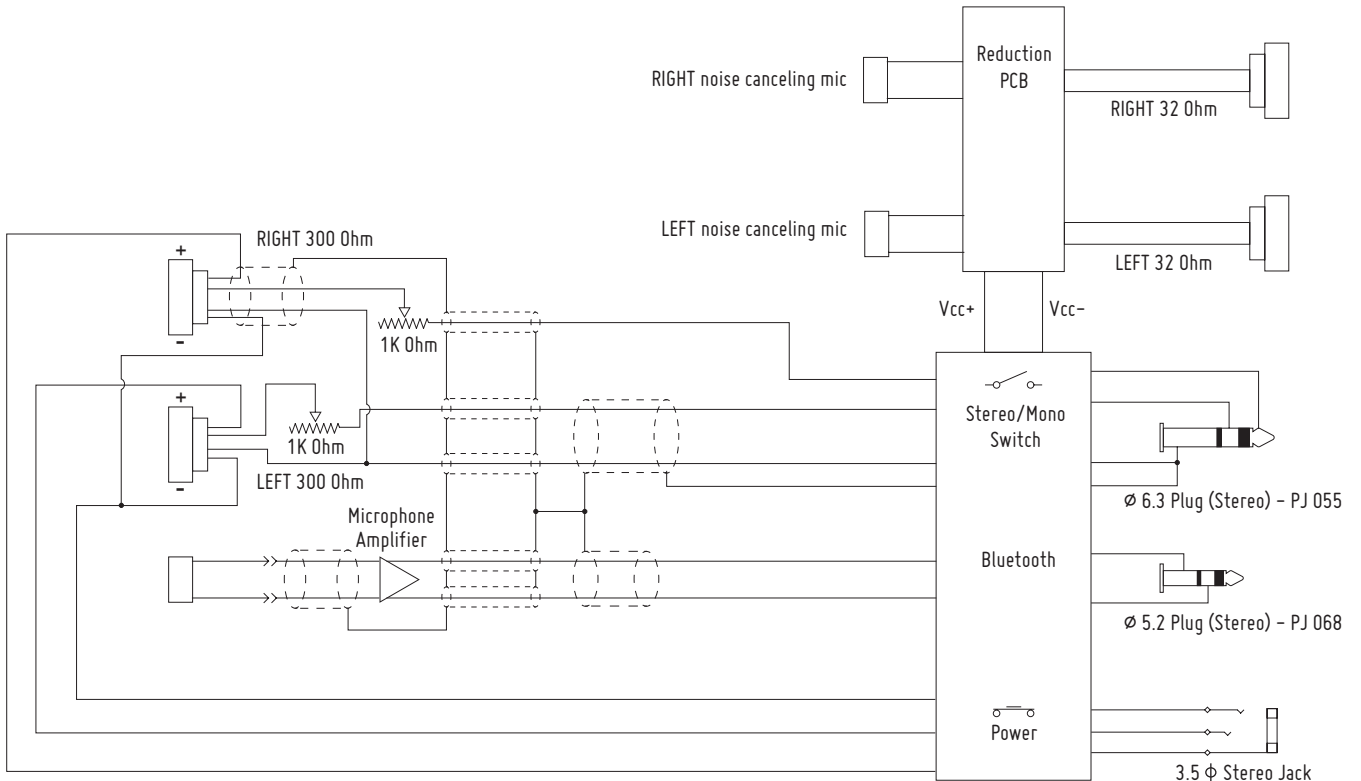
PNR Noise Reduction Ratings NRR	23 dB
ANR Noise Reduction Ratings NRR	29 dB
Attenuation Frequency Band	20 Hz ~ 20 KHz
Main Attenuation Frequency Band	20 Hz ~ 600 Hz
Attenuation Capability	29 dB
Power Consumption	25 mW without Bluetooth and LED light

GENERAL

Temperature:	Air temperature in operation -20°C to +55°C (-4°F to +131°F)
Cordage:	Straight cord from headset to molded plug approx. 170 cm
Headset size range height:	43-45 cm
Boom:	Flexible Boom
Weight:	320 g



12) CIRCUIT DIAGRAM





DESIGN 4 PILOTS

DESIGN 4 PILOTS GMBH

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