

Set 5



Set Screen - Set5 - Dive



Set Screen - Set5 - Start Log



Set Screen - Set5 - Stop Log



Set Screen - Set5 - Conservatism Factor

Access: Press the right button five times on the Set Screen to access Set 5, then press the left button to enter the dive settings.

Operation: Press the right button to select the setting value, then press the left button to confirm the setting value.

In the Dive settings, the right button switches the options, and the left button confirms the selection.

Start Log -

Default: 1.0 m

Setup range: 1.0 / 1.5 / 2.0 / 2.5 / 3.0 m

Stop Log -

Default: 1 min

Setup range: 1 / 2 / 5 / 10 min

Conservatism Factor -

Default: CF2 40/85

Setup range: CF1 (Conservative), CF2 (Normal) and CF3 (Aggressive)

Note: Please make sure you fully understand that changing this setting will affect algorithm calculations and the related risks.

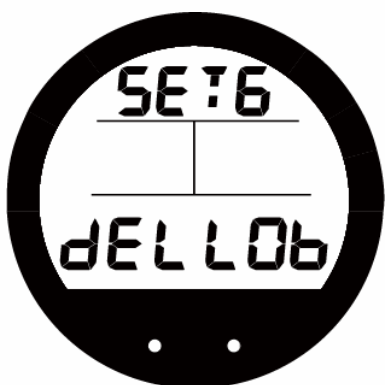
Water Type -

Default: Salt

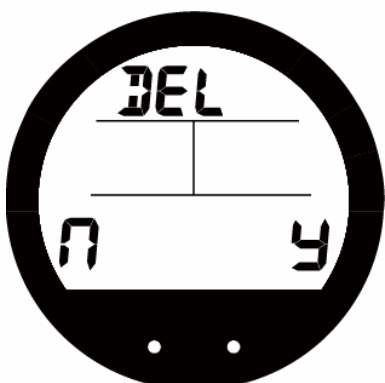
Setup range: Salt / Fresh



Set Screen - Set5 - Water Type



Set Screen - Set6 - Delete Log



Set Screen - Set6 - Confirm Delete



Set Screen - Set6 - Second Confirm

Set 6

Access: Press the right button six times on the Set Screen to access Set 6, then press the left button to enter the log clearing.

Operation: Press the left or right button to select the setting value. There will be two confirmation screens.

Y is Yes (Confirm clearing.)

N is No (Do not clear)

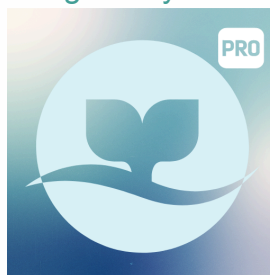
Note:

1. By Clearing all dive logs, all logs will be deleted permanently. There is no way to retrieve them.

2. Clear logs won't affect any existing settings and residual nitrogen calculation of previous dives existing on this dive computer will still be calculated.

3. Download your dive logs using our application service before clearing all dive logs is recommended.

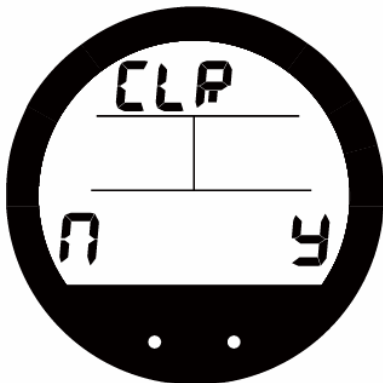
Search "Dive Story Pro" on APPLE STORE and Google Play Store for our application service.



Set 7



Set Screen - Set7 - Clear residual nitrogen calculation



Set Screen - Set7 - Confirm Clear



Set Screen - Set7 - Second Confirm

Access: Press the right button seven times on the Set Screen to access Set 7, then press the left button to enter the tissue clearing.

Operation: Press the left or right button to select the setting value. There will be two confirmation screens.

Y is Yes (Confirm clearing.)

N is No (Do not clear)

Clear residual nitrogen calculation (TISSUE CLEAR): You can use this function to reset the residual nitrogen calculated in the dive computer.

WARNING:

1. Please make sure you fully understand that changing this setting will affect algorithm calculations and the related risks. DO NOT USE this function if you are not a certified diving instructor or you are not suggested to do so by a certified diving instructor or facility.

2. If you are an instructor or you need to rent this dive computer to different students or customers, please make sure they DO NOT have diving activities within the past 72 hours for maximum safety control.

3. If you are the person who are receiving this dive computer after using Clear residual nitrogen calculation function, please make sure you DO NOT have diving activities within the past 72 hours for maximum safety control.

4. Do not use this function if you are not sure with related results. You are responsible for your own safety.

10. Dive Mode

10.1 Air / Nitrox Mode

Screen Functions	
A circular digital display for Air Mode. At the top, 'dIVE' is shown in a stylized font. Below it, 'MAXIMUM' and 'DIVE TIME' are labeled. The maximum depth is '216' and the dive time is '0:11'. Below these, 'METERS' and 'MINUTES' are labeled. The current depth is '20.6' and the current time is '20'. At the bottom, 'METERS' and 'MINUTES' are labeled again. An 'ASC' icon is on the right side. Air Mode - Underwater Main Screen A circular digital display for Nitrox Mode. It shows the same information as the Air Mode screen, but with a 'NITROX' label above the current depth '20.6'. An 'ASC' icon is on the right side. Nitrox Mode - Underwater Main Screen	Air / Nitrox Mode - Underwater Main Screen Description: 21.6: Maximum depth 0:11: Dive time(hr:min) 20.6: Current depth 20: NDL time (Non-Decompression Limit) Will show 99 when NDL exceeds 99 minutes. NITROX : Nitrox Icon ASC : Ascent speed For segment display, refer to section 2.3, Icon Description. If it exceeds 10 meters/minute, there will be an alarm warning (short beeping repeated), and the top will alternately display: SLOW DOWN TOO FAST During diving, the right button activates the backlight function.

 Air / Nitrox Mode - Second Screen	Air / Nitrox Mode - Second Screen Access: Press the left button once on the underwater main screen to access this screen, then press the left button again to return to the underwater main screen. Description: 25.6 °C: Water temperature 13:01: Current time 20.6: Current depth
 Nitrox Mode - Third Screen Nitrox Only	Nitrox Mode - Third Screen Nitrox Only Access: In Nitrox mode, press the left button twice on the underwater screen to access this screen, then press the left button again to return to the underwater main screen. Description: 0.50: Current accumulated PO2 20.6: Current depth 32: Current oxygen percentage value



Air / Nitrox Mode - Safety Stop

Air / Nitrox Mode - Safety Stop (When the NDL has not been exceeded)

Description:

5.0: Recommended safety stop depth

2:48: Recommended safety stop time(min:sec)

4.8: Current depth

99: NDL time

Safety Stop: When divers ascend to 5m (16.4 ft), the diver computer will start a Safety Stop countdown automatically. During the stop, the top will alternately display:

SAFE 5m STOP

If the recommended safety stop time is not completed, the countdown will stop.

When the safety stop is completed, the computer watch will sound and screen will return to the underwater main screen.

 Air / Nitrox Mode - Deep Stop	Air / Nitrox Mode - Deep Stop (When the NDL has not been exceeded) Access: Set deep stop in Set3. Description: 13.0: Recommended deep stop depth 2:00: Recommended deep stop time 14.0: Current depth 67: NDL time Deep Stop: When divers ascend to recommended stop depth, the diver computer will start a Deep Stop countdown automatically, and the stop time is 2 minutes. During the stop, the top will alternately display: DEEP 5:00 If the deep stop is ignored and the diver continues to ascend to the safety stop depth, the computer will calculate the safety stop time. Note: Depth stop is an optional safety stop. When set to ON (Enable), it will trigger if descending beyond 24 meters (80 feet), displaying a stop depth of half the maximum depth of the dive.
 Air / Nitrox Mode - When the NDL has been exceeded	Air / Nitrox Mode - When the NDL has been exceeded Description: 9.0: Decompression stop depth. 0:30: Decompression stop time (min:sec) 38.5: Current depth 5: Time To Surface time (TTS) ■ N2: Current nitrogen accumulation status When 4 minutes remain on the NDL countdown, a series of short beeps will sound to remind you to ascend slowly and complete your dive.

Air / Nitrox Mode - Deco Stop

Description:

9.0: Decompression stop depth.

0:18: Decompression stop time (min:sec)

9.0: Current depth

5: Time To Surface time (TTS)



Air / Nitrox Mode - Deco Stop

Deco Stop: When divers ascend to recommended stop depth, the diver computer will start a Deco Stop countdown automatically. During the stop, the top will alternately display:

DECO 9m 5:00

Please remain at the stop depth the entire duration indicated by the countdown timer if you have enough air and no other potential risks are evident.

If the recommended safety stop time is not completed, the countdown will stop.

When the safety stop is completed, the computer watch will sound and screen will return to the underwater main screen.

Air / Nitrox Mode - PO2 Warning

Description:

1.20: Current accumulated PO2 value

PO2↑: High PO2 warning

48.1: Current depth

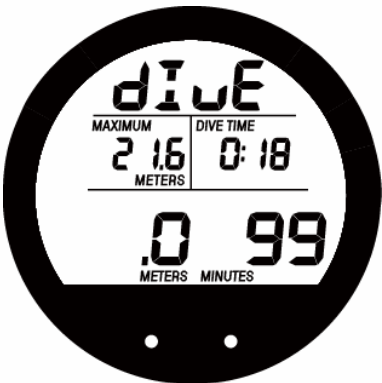
2: NDL time

PO2: When accumulated PO2 calculation approach your PO2 setting, it will show the current accumulated PO2 value and the top will continuously display: UP



Air / Nitrox Mode - PO2 Warning

When accumulated PO2 calculation exceeds your PO2 setting, the top will continuously display: UP HIGH PO2

 Air / Nitrox Mode - CNS 80%  Air / Nitrox Mode - CNS 100%	Air / Nitrox Mode - CNS Warning Description: CNS 80% - 49.1: Maximum depth 0:23: Dive time(hr:min) 39.0: Current depth 12: NDL time  : CNS accumulation status CNS 100% - 100: CNS 100% SA: Saturation 02 : When the CNS accumulation reaches 80%, the top will display this icon. If the CNS accumulation reaches 100%, the top will alternately display: UP HIGH 02
 Air / Nitrox Mode - Return to the Surface	Air / Nitrox Mode - Return to the Surface Description: When you return to the surface, the dive will be automatically ended according to the Log Stop time setting, you cannot use any button to stop or exit before the recording is completed.

 Air / Nitrox Mode - No Dive	Air / Nitrox Mode - No Dive Access: Appears in No Fly / No Dive status after diving, and it will remain until the No Fly / No Dive time ends. Description: Left 23:59: No Fly Time If this time, you are still within the No Fly time after a dive, so do not travel by air or go to higher altitudes. Right 23:59: No Dive Time If this time, you are still within the No Dive time after a dive, please do not dive again. If diving during No Dive state, the dive computer will directly enter Gauge Mode and will not calculate NDL.
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10.2 Gauge Mode

Screen Functions	
 Gauge Mode - Underwater Main Screen	Gauge Mode - Underwater Main Screen Description: 42.3: Maximum depth 0:35: Dive time (hr:min) 40.6: Current depth  : Ascent speed For segment display, refer to section 2.3, Icon Description. If it exceeds 10 meters/minute, there will be an alarm warning (short beeping repeated), and the top will alternately display: SLOW DOWN TOO FAST During diving, the right button activates the backlight function.

 Gauge Mode - Second Screen	Gauge Mode - Second Screen Access: Press the left button once on the underwater main screen to access this screen, then press the left button again to return to the underwater main screen. Description: 21.2 °C: Water temperature 10:58: Current time 40.6: Current depth
 Gauge Mode - Return to the Surface	Gauge Mode - Return to the Surface Description: When you return to the surface, the dive will be automatically ended according to the Log Stop time setting, you cannot use any button to stop or exit before the recording is completed.
 Gauge Mode - No Dive	Gauge Mode - No Dive Access: Appears in No Fly / No Dive status after diving, and it will remain until the No Fly / No Dive time ends. Description: Left 23:59: No Fly Time If this time, you are still within the No Fly time after a dive, so do not travel by air or go to higher altitudes. Right 23:59: No Dive Time If this time, you are still within the No Dive time after a dive, please do not dive again. If diving during No Dive state, the dive computer will directly enter Gauge Mode and will not calculate NDL.

Decompression Diving Warning for Recreational Divers:

Decompression options provided by dive computer and presented in this user manual should only be used as emergency procedures when a NDL limit has been accidentally surpassed.

It is important to remember that decompression stops are driven by both depth and NDL violations. It is possible to see several decompression stop indications at different CEILING depths and different times depending how severe the depth and NDL violations have been.

Decompression diving is not an activity that should be performed by recreational divers as a standard practice. Decompression diving requires extensive training, deep knowledge of diving physics and diving physiology and several pieces of extra gear and sufficient gas supply to safely perform the required decompression stops.

We strongly discourage recreational divers from performing decompression diving.

11. Serial Number and Firmware Version

Serial Number and Firmware Version	
 Bootup Countdown Screen	Description: During the boot up countdown screen, press the right button twice to view the serial number and firmware version.
 Serial Number Screen	Bootup Countdown Screen: When the dive computer is turned on, it will display a countdown screen. During this time, you can access additional information by pressing buttons. Serial Number Screen: After pressing the right button twice during the startup countdown, the dive computer will display its unique serial number. This number is important for product registration, warranty, and service purposes.
 Firmware Version Screen	Firmware Version Screen: On the serial number screen, pressing the left button once, the firmware version currently installed on the dive computer will be displayed. The firmware version indicates the software update level of the device, which may include new features, bug fixes, or improvements to functionality. Note: Keeping track of the serial number and firmware version can help with technical support and ensuring that your device is up-to-date with the latest software enhancements.

12. Synchronization and APP

Synchronization and APP	
 Dive Story Pro	Description: 1. Please download Dive Story Pro App from App Store or Google Play and register/login your account. 2. Turn on the Bluetooth of your mobile phone. 3. Open the Homepage of the APP and click on “Add Device” to pair and connect with the dive computer. Uploading Dive Logs via the APP: Select “Sync Dive Logs” to upload the dive logs from the dive computer to the app. Updating Firmware via the APP: Select “Update Firmware” Once the firmware file transfer is complete, the watch will automatically update. Do not turn off the watch during the update process

13. Disclaimer

13.1 User's Responsibility

This device is intended for recreational use only.

CREST CR-1 is not applicable for measurement data or use specifications that require compliance with occupational or industrial requirements.

13.2 About Flying After Diving

The no-fly time is displayed in watch mode, with an icon of the aircraft at the bottom of the screen. The no-fly time is shown in the history and version information. Once the no-fly time icon shows up, no flights or travel to high altitudes are allowed.

No-fly times are usually longer than 12 hours.

The Divers Alert Network (DAN) recommends the following on no-fly times:

- A minimum surface interval of 12 hours would be required in order to be reasonably assured a diver will remain symptom free upon ascent to altitude in a commercial jetliner (altitude up to 2,400 m (8,000 ft)).
- Divers who plan to make daily, multiple dives for several days, or make dives that require decompression stops, should take special precautions and wait for an extended interval beyond 12 hours before a flight. Further, the Undersea and Hyperbaric Medical Society (UHMS) suggests divers using standard air cylinders and exhibiting no symptoms of decompression sickness wait 24 hours after their last dive to fly in an aircraft with cabin pressure up to 2,400 m (8,000 ft).

The only two exceptions to this recommendation are:

- If a diver has less than two (2) hours total accumulated dive time in the last 48 hours, a 12 hour surface interval before flying is recommended.
- Following any dive that required a decompression stop, flying should be delayed for at least 24 hours, and if possible, for 48 hours.

CREST recommends that flying is avoided until all the DAN and UHMS guidelines, as well as the dive computer's no-fly conditions, are satisfied.

14. Limited Liability Warranty

CREST Dive Computer is covered by CREST's limited warranty.

- CREST provides a limited product warranty to the purchaser of a dive computer watch and dive computer watch accessories (hereinafter referred to as the Product).
- During the period of the Product Warranty, improvements will be made at CREST or CREST authorized distributor or dealer location for possible defects in the hardware of the Product in accordance with the terms of this Warranty. These improvements may include free repair, replacement of the whole or part of the Product and repair at a charge, the details of which shall be at the sole discretion of CREST. This provision shall not apply where local regulations govern the rights of consumers.
- This warranty is valid only for the country in which the Product was originally purchased and where the Product is duly authorized by CREST to be legally distributed for sale and service.
- The Product Warranty Period shall commence on the date of purchase by the Consumer and the provision of official proof of purchase and the determination of the criteria shall be at the sole discretion of CREST. If the product meets the warranty conditions and free repair and replacement criteria within the warranty period, the original manufacturer will provide free repair and parts replacement and return the product to the consumer within a reasonable period of time. The consumer is still responsible for shipping charges to CREST authorized dealer locations or other service charges that may be incurred.

Details are as follows:

- The main body of the dive computer is covered by a one-year conditional factory warranty.
- The original warranty period will not be extended if the product is returned to the original factory for repair, replaced by a new/good product after repair, or resold.
- If the repaired product is returned within three months after the warranty period, CREST will provide one free repair to protect the consumer's rights and interests if the repaired product is in the same condition as the requested repair.

Exclusions and Limitations

This limited warranty does not cover:

1. wear and tear arising from normal use.
2. problems caused by collision with sharp objects, bending, crushing or dropping and other improper handling.
3. damage or malfunction of the product caused by improper use in violation of the CREST factory rules/instructions (e.g. not following the product manual), and other actions beyond reasonable use.

4. damage to the internal settings, data content or other data of the Dive Computer Meter. Whether it is the user's manual that comes with the product or obtained by download, or software supplied by a third party, or even the user's own data; problems arising from installation, assembly, or transportation.
5. any failure caused by the use of services, software, accessories or any related products not provided by the original manufacturer; or any failure caused by the use of CREST products for purposes other than those for which they were originally designed.
6. any failure caused by replacing the battery, disassembling and assembling the CREST Product by yourself.

The warranty shall automatically be terminated in the event that

1. the serial number of the Product has been manually removed, altered, worn or defaced to the point of being unrecognisable
2. the Product itself has been disassembled, altered, modified, or referred to a non-CREST authorized distributor or dealer for testing and repair.
3. the product has been repaired with parts or consumables not supplied by the original manufacturer.
4. the product has been exposed to chemicals, such as computer watches sprayed with mosquito repellent, chemical sprays containing ammonia or alcohol with solvents.

How to obtain CREST warranty service

To obtain warranty service, please review the customer service information in the manual or visit the original manufacturer's website for assistance resources. The manufacturer's website is www.crestdiving.com. To claim your warranty rights, please contact your local CREST authorized agent and distributor.

If the product meets the warranty conditions and free repair and replacement criteria within the warranty period, the original manufacturer will provide free repair and parts replacement and return the product to the consumer within a reasonable period of time. The decision to offer a product for repair or replacement shall be at the sole discretion of CREST or a CREST Authorized Dealer. If the warranty period has expired or the warranty conditions are not met or the free repair and replacement criteria are not met, the product will no longer be entitled to free service and CREST or a CREST Authorized Dealer reserves the right to charge a discretionary repair handling fee.

If a consumer finds a problem with a product, he or she must make a warranty claim within a reasonable period of time and request warranty repair rights by bringing the product to a CREST dealer location and requesting warranty repair. The consumer must provide: the name of the purchaser, contact telephone number, and proof of purchase. The proof of purchase must clearly state the product model number, product serial number, purchaser's name, contact number, date of purchase, dealer information and other detailed information. If the consumer wishes to send the product by post for repair, please send the



product together with the above information to the local CREST authorized distributor at your own cost.

In any circumstances, all warranty claims must be made prior to the expiration of the warranty period in order to claim warranty rights, and CREST cannot guarantee that the product will operate uninterrupted or error-free, or that the product will be compatible with hardware or software supplied by other vendors.

15. Contact CREST

EMAIL : info@crestdiving.com

WEBSITE : www.crestdiving.com

16. Copyright Statement

The contents of this document are the property of CREST, including the words and graphics CR-1, which are registered or unregistered trademarks of the Company. Although every effort has been made to ensure the completeness and correctness of the contents of this document, we cannot guarantee 100% accuracy. Accordingly, the contents of this document may be revised at any time without notice.

17. Appendix

17.1 Product Specifications

Size & Weight	Diameter: 56 mm / 2.2 inches Thickness: 25.8 mm / 1.0 inches Weight: 58g Displayarea: 39.9*31.5 mm / 1.6*1.2 inches
Depth Meter	Temperature-compensated pressure sensor: Calibration based on seawater, within 3% reduction in freshwater reading (in accordance with EN 13319) Maximum operating depth: 100 m / 328 ft (in accordance with EN 13319) Accuracy: Full display $\pm 1\%$; or best at 20°C / 68°F, 0 m / 0 ft to 80 m / 262 ft Depth display range: 0 m / 0 ft to 100 m / 328 ft Resolution: 0.1m from 0 m to 100 m, or 1 ft from 0 ft to 328 ft
Temperature display interval	Resolution: 1 °C / 1 °F Display range: 0 °C to 40 °C / 32 °F to 104 °F Accuracy: $\pm 2\text{ °C}$ / $\pm 3.6\text{ °F}$ (within 20 minutes of temperature change)
Calendar Clock	Accuracy: $\pm 25\text{ sec/month}$ (at 20 °C / 68 °F) 12/24 Switching
NITROX	Oxygen concentration: 21 % to 99 % Oxygen partial pressure display: every 0.01 bar Oxygen Exposure Limit Section: 1 % to 100 %, display resolution 1 %
Working Environment	Operating temperature: -5 °C to 40 °C / 23 °F to 104 °F Recommended storage temperature: 0 °C to 40 °C / 32 °F to 104 °F
Low Temperature Attention	If you use the battery in low temperature for a long time, it will cause more charge and discharge cycles. The low battery warning means that there is still enough power available. In this case, the warning symbol will usually disappear automatically when the dive mode is activated.
Algorithm	The CREST Decompression Algorithm is computed using 16 tissue intervals. The tissue intervals are based on the half-time tissue table of Bühlmann ZH-L16C. The "M" value for nitrogen emissions is related to diving habits and whether the dive warning was violated. The computer continues to track the "M" value even after the dive has ended. The calculation of enriched oxygen and oxygen exposure is based on the NOAA (National Oceanic and Atmospheric Administration) Exposure Schedule and Limitation Principles.

17.2 Diving Terms and Explanations

Terms	Explanations
Ascent Rate	The rate at which a diver rises through the water.
CNS toxicity	High partial pressure oxygen is toxic to the human body, and the toxicity from over-breathing can lead to various neurotoxic symptoms. The most serious of these is a convulsive neurotoxic reaction similar to epilepsy, which can lead to uncontrollable convulsions that affect the diver's breathing and result in drowning.
CNS	The abbreviation for the central nervous system.
PO₂	Partial Pressure of Oxygen, representing the proportion of oxygen in the total pressure. Excessive PO ₂ can lead to oxygen toxicity.
Decompression	The decompression of a diver is the reduction in ambient pressure experienced during ascent from depth. It is also the process of elimination of dissolved inert gases from the diver's body, which occurs during the ascent, largely during pauses in the ascent known as decompression stops, and after surfacing, until the gas concentrations reach equilibrium.
DSC	Decompression sickness (abbreviated DCS; also called divers' disease) is a medical condition caused by dissolved gases emerging from solution as bubbles inside the body tissues during decompression. DCS most commonly occurs during or soon after a decompression ascent from underwater diving, but can also result from other causes of depressurisation. DCS and arterial gas embolism are collectively referred to as decompression illness.
Dive Time	The time from the start of the dive until the end of the dive when you return to the surface again.
Conservatism Factor	An important parameter that affects diving safety. The conservatism setting controls the level of conservatism applied when calculating no-decompression limits (NDL) and decompression stop times, aiming to reduce the risk of decompression sickness (DCI). Higher conservatism settings shorten no-decompression dive times and extend decompression stop durations, providing an increased safety margin.
NDL	The "no-decompression limit" (NDL) or "no-stop limit" , is the time interval that a diver may theoretically spend at a given depth without having to perform any decompression stops while surfacing. The NDL helps divers plan dives so that they can stay at a given depth for a limited time and then ascend without stopping while still avoiding an unacceptable risk of decompression sickness.

EAN	Abbreviation for Enriched Air Nitrox (high oxygen nitrogen oxygen mixture). Abbreviated as high oxygen or written as EANx, x represents the percentage increase in the proportion of oxygen. For example, the ratio of high oxygen mixture EAN32 (NOAA I) and EAN36 (NOAA NN II) is a mixture of 32% and 36% of oxygen.
NITROX	Nitrox refers to any gas mixture composed (excepting trace gases) of nitrogen and oxygen.

17.3 NCC Warning

Regulations for low-power radioactive motors

The company, firm or user shall not change the frequency, increase the power or change the features and functions of the original design of the certified low power RF equipment without approval. The use of low-power RF equipment shall not affect flight safety or interfere with legal communications; if interference is found, it shall be immediately discontinued and improved until there is no interference before continued use. The aforementioned legal communication refers to the radio communication operated in accordance with the Telecommunications Control Law. Low-power RF equipment shall tolerate interference with legal communications or radioactive electrical equipment for industrial, scientific and medical use.

17.4 FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device



could void the user's authority to operate the equipment.

RF Exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and**
- (2) this device must accept any interference received, including interference that may cause undesired operation.**