



NEW OS RELEASE AND IDIVE SPORT IMPROVEMENTS

Next Tuesday, June 5, the version 4.0.44 of the RATIO Operating System will be released to the public.

Please suggest to all your resellers and customers to update their computers. Here attached the preview of the newsletter that will be sent to everyone next Tuesday.

Main innovations included in OS 4.0.44:

MULTI TRANSMITTERS SUPPORT

All computers, both iX3M and iDive of all models, are now able to show the readings of a number of transmitters equal to the number of admissible gases. This means that the Easy support a maximum of 2 transmitters, the Deep a maximum of 3 and finally the Tech + a maximum of 10 transmitters.

Transmitter setting menu

Entering the TRANSMITTER menu you can access to the transmitters configuration, for the mixes actually enabled.

The transmitter setting screen has been completely revised and now includes the possibility to choose, for each transmitter supported:

CHAN = transmitter coupling channel (OFF, SRC or channel number if the transmitter is already coupled). To couple computer and transmitter: select SRC, bring the computer closer to a working (flashing) transmitter, when a number appears the transmitter is coupled on that channel. Automatically the MODE voice will go ON (or SDM if this mode was previously selected).

MODE = operating mode (ON, OFF, SIDEMOUNT). If ON is selected, both the mix and the transmitter are active. The transmitter measures both the gas pressure in the tank and the reserve that this transmitter must guarantee. (See below). By selecting SDM (SIDEMOUNT) the pressures of all the transmitters having the same MIX set (for example 21% O₂, or 50% O₂) are added to calculate the RBT. All the transmitters having the same MIX and for which the SDM mode has been selected, are added together to calculate the RBT. For this purpose it is assumed that the cylinders are all of equal capacity. A transmitter that was previously paired to the computer can simply be 'turned off' by selecting OFF mode to avoid having to repair it the next time.

MIX: gas associated with that specific transmitter. You can scroll through the different mixes enabled to assign one to the transmitter. N.B. Only the mixes activated in the MIX TABLE (iX3M) or MIX (iDive) menu will be shown.

RES = reserve. You can define the pressure you want to indicate as a reserve. RES has a minimum value of 10 BAR and a maximum value of 70 BAR (or equivalent in PSI).

Pressing **RESET** all transmitters will be reset.

Maximum reserve limit

To allow a more personalized use of reserves (for example, to apply the so-called 'third-party rule'), the maximum limit was raised to 70 BAR instead of 50.

Color code when reading transmitters (iX3M only)

The transmitter readings propose a color code based on the concept of the thirds with respect to the reserve pressure indicated by the user in the transmitter setting. If the tank pressure is more than twice the reserve, the reading will be shown with the standard color (DATA) selected by the user in the DISPLAY menu (assuming a reserve of 50 BAR, the standard color will be shown if the pressure is higher than 100 BAR); if the pressure is greater than the reserve but less than twice the reserve itself (between 50 and 100 BAR in the example), the color shown will be the medium alarm (MED); finally, if the pressure is lower than the reserve (50 BAR), the color chosen for the high alarm (HIGH) is shown. This color code is different from the flashing of the transmitter, which cannot be changed (see Transmitter Manual).

Warning: if you dive into a group where there are several RATIO transmitters, make sure that two of them do not have the same CHAN channel. If this happens, please follow this procedure to change the channel:

- choose the transmitter for which you want to change the channel;
- be sure to be close with the computer;
- close the valve of the cylinder associated and drain the circuit (purge from the second stage);
- open the valve again (it is suggested not to open the valve completely to close it quickly);
- while the transmitter is performing the initial cycle through the 4 colors (blue, red, yellow, green), close the valve and drain the circuit;
- completely reopen the cylinder, at this point the transmitter will have changed the channel.

Repeat the procedure if necessary. The available channels are 32.

BATTERY RELIABILITY

A new battery calibration algorithm has been added to increase the accuracy of the current measurement. In this way, there is better control over the actual consumption of the battery and greater accuracy in the residual quantity shown.

After the update to OS 4.0.44, a recalibration of the battery is suggested. Please follow the instructions attached to this email (Battery Calibration).

SCREEN ROTATION (iX3M)

All iX3M (all models, both PRO and GPS) now allow the screen to rotate upside-down, which, in the case of the Reb model, greatly facilitates the connection of the sensor cable for the right pendent. The keys do not change in their function (the closer to the hand remains A and so on). The compass is corrected so as not to be affected by rotation.

In the DISPLAY menu under ROTATION select 180 DEG (or 0 DEG to reset).

Attention: the LEVEL and MODE entries of the BACKLIGHT have been grouped into a single voice. When the maximum brightness level of 15 is exceeded, the AUTO mode is activated.

PLANNER

The lower limit of the Planner (DEPTH) has been moved to 3m.

Exit from the Planner

When you are in the Plan Screen and press the B button (the second from the left) on iX3M, or C (bottom left) on iDive, you return to the Planner setting window. In this way, it is easier to simulate more than one dive.

EXIT FROM THE MENUS (iDIVES)

In the iDive, in any menu page, by pressing the B button (top right) when the first menu item is selected, the right exit arrow will be highlighted and then the user is allowed to exit. To speed up the search for the menu items, if you press button B further, you will return to the last item of the current menu page. Vice versa, if you are on the last item, pressing the D key (lower right) once, you will access the exit arrow, pressing it a second time will move to the first item of the current page of the menu.

AMSL ATMOSPHERIC PRESSURE CALIBRATION

This function allows to change the reference pressure on the sea level in order to obtain a more correct reading of the altitude. The pressure, measured with a barometer placed on the sea level or obtained from an on line service (like Italian Air Force Metear service www.meteoam.it/metar), is entered as a parameter under the entry PSEA in the GENERAL SETTINGS (iX3M) or COMPASS (iDive) menu. In this way, the altitude reading will be compensated according to atmospheric conditions and temperature.



The New OS

OS 4.0.44

is now available for
iX3M series, iDive Sport series,
and iDive New Avantgarde series.



New os 4 .0.44
Multi transmitter | Side Mount Mode
Update your Ratio now. For Free.



New os 4 .0.44
Multi transmitter for iDive and iX3M. Up to 10*.
Update your Ratio now. For Free. *2 for Easy, 3 for Deep, 10 for Tech

Connect your Ratio Computers to the DiveLogger
to update your device
for free.

[Update your Ratio now](#)

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Update complete name: OS 4.0.44/0xx

This release includes improvements and bugfixes, including:

> New features:

- Multi transmitters for Air integrated iDive and iX3M (up to 10 for Reb and Tech+, up to 3 for Deep and up to 2 for Easy).
- Side Mount Multi-transmitters mode.
- (for iX3M series only) 180° Flip screen function.
- New, improved, automatic altitude detection.
- Introduced the possibility to manually set the local sea-level mbar pressure value for a more accurate altitude detection.
- Introduced the battery recalibration procedure.
- Minor system improvements.

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