

Neptune II NIRA/GSM DC

Features and Benefits

Features	Benefits
Six Point Spider Strap	Holds the mask firmly and comfortably in place under all conditions unlike the two strap conventional mask.
	Quick, individually adjustable straps keep mask properly placed.
	Comes in rubber or fabric
Clamping Band around skirt	Holds skirt in place. Also is the point at which the strap is attached, rather than the skirt, preventing distortion of the skirt when straps are unevenly tightened.
Silicone Skirt	Wide, comfortable sealing surface allows mask to be “ambient” pressure rather than “positive” pressure.
	Skirt is made of fine, high quality silicone rubber.
	Skirt comes in two sizes to accommodate all faces.
	Available in black, blue, yellow, and clear silicone.
Polycarbonate face shield	Coating makes shield scratch resistant (almost scratch proof).
	Impact resistant. Tested to withstand the impact of a 1” steel marble at 320 mph
	Anti-fog due to exclusion of exhaled air (carbon dioxide)
	180 degree peripheral vision. 120 degree in-focus.
Oral nasal mask	Soft silicone seals comfortably around the nose and mouth.
	Small volume of oral nasal mask eliminates carbon dioxide build-up.
	Fresh air enters through “one way” valves on each side of the nose.
	Added safety feature causes fog on face shield if CO ₂ is leaking into the fresh air chamber.
Three way adjustable equalization system	Adjusts up-down, left-right, and in-out to accommodate nose size and nostril configuration.
Microphone with permeable membrane	Allows gas to penetrate keeping interior of the mic at ambient pressure.
	Will not allow water to enter mic unless it is exposed to the water and it descends to 33 feet. (older mics would flood if a 3 ft. descent occurred)
	Mic is designed to pick up sound as it bounces off the face shield.
Surface air valve (optional)	Allows diver to conserve compressed gas and breathe ambient air while on the surface.
	The port in which the surface air valve mounts will also accommodate a second “second stage” regulator.

	The new surface air valve will also accommodate the passage of the electronic wires for the “Shield Display” which is a “heads-up” display giving the diver depth and relative cylinder pressure in LED pixels.
Adjustable exhaust valve	Selector allows diver to direct exhaust to the right, away from the ultra sound communications system, to the left, or in both (direction of least resistance).
	In the “forward” position the valve places impedance in the exhaust port to decrease free flow in a “head down” position.
NIRA second stage regulator	A simple non-over-injected adjustable regulator designed specifically for the full face mask system.
	Flow rate is adjusted with a simple “turn” knob.
	When properly adjusted will not “free flow” like conventional regulators since there is not a “venture” effect created.
	Built in “dive, pre-dive” lever that prevents free flow when the diver places the system in the water, enters and dons the system while floating.
	Spring and poppet recently redesigned to give the system a 12% improvement in breathing resistance.
	Intermediate pressure can be set to accommodate surface supplied air (approx. 15 PSI) or conventional scuba (120 to 150 PSI)
GSM DC Underwater communications system	Can be mounted on the right or left side (standard is on the left, right side is by request)
	Includes ultra sound transmitting system and ultra sound receiving system.
	Operated with a nine volt alkaline battery that will last a typical day of diving (approx. 45 minutes of constant transmission)
	Held onto the mask by a simple attachment system called the NACS
	Push to talk, release to listen
	Has the ability to use channel one (1) or two (2) <ul style="list-style-type: none"> • To access channel two the “push to talk” button is pressed and while it is held down the other button (hands free mode button) is pressed. • The diver will hear “channel 2” when going from channel 1 to channel 2, and “channel 1” when going from channel 2 to channel 1. • Upon surfacing the system defaults to channel 1
	“Hands free” mode, activated by a separate button, allows diver to use both hands while speaking <ul style="list-style-type: none"> • Once activated the system transmits for 30 seconds (after a multiple audible tone), then emits a softer tone and goes into “listen” mode for 20 seconds • This cycle is repeated until the user deactivates the “hands free” mode by

	<p>pressing the button again.</p> <ul style="list-style-type: none"> • “Hands free” can be activated again any time after the soft tone (listen mode) to allow the diver to speak longer than 30 seconds hands free. • Once the hands free mode is deactivated the system is back to manual (push to talk, release to listen) mode.
Quick connect hose system	Low pressure hose is connected via a pneumatic connector similar to a BC hose, but can be attached by simply “pushing” the hose onto the fitting.
	The fitting must be manually retracted to remove low pressure hose just like a BC hose.
	A new “Commercial Quick Connect” requires the use of both hands to remove it from the hose.
	These quick connectors prevent damage to the system caused by being carried on the end of a hose and banging into things.

Ocean REEF is constantly developing new features for the system such as the Shield Display, and all new features can be installed on all existing systems. Unlike other products, the Ocean REEF Neptune II system will never become obsolete!!