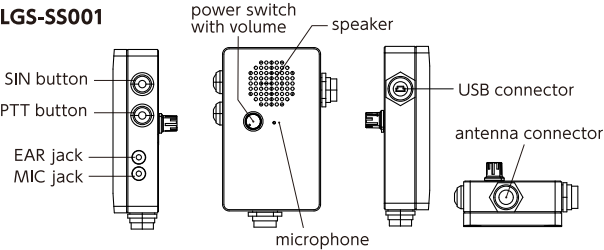
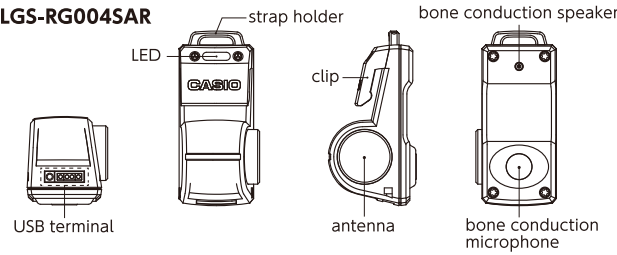


Underwater walkie-talkie Logosease Major Specifications

SPECIFICATIONS		LGS-RG004SAR Search and Rescue model	LGS-SS001 Surface stationmodel
Outer package	Size	89.0mm×41.0mm×44.8mm	75.0mm×125.0mm×35.0mm
	Weight	Approx. 107g	Approx. 285g
	Water-proof	At 55m depth	Practical water proof (equivalent to IP-55)
	Temperature in use	0 to 40℃	0 to 40℃
Audio section	Microphone	Bone conduction microphone	Capacitor microphone
	Speaker	Magnetic type bone conduction speaker	Dynamic type speaker
	Channel	1ch	1ch
Communication section	Frequencies	(Ultrasound wave) 32kHz USB (Band range) 4kHz, SSB-AM basis * There is no law regulations for use of ultrasound underwater in Japan."	(Ultrasound wave) 32kHz USB (Band range) 4kHz, SSB-AM system * There is no law regulations for use of ultrasound underwater in Japan.
	Antenna	Ceramic piezoelectric element	Cylindrical ceramic piezoelectric element * Cable length 10m/30m
	Max. communication range	75-150m The communication range depends on the using condition (location of your buddy and sea condition)"	200m * This is the max. range from Surface station to Logosease. The communication range depends on the using condition (location of divers and sea condition)
	Direction effect	Power of communication will be max. when front side of antenna of each divers faces each other. It will be min. when they are facing opposite side.	No directivity around the cylinder of antenna, but to the vertical direction.
Display (LED)	Power switch ON (Indicates battery level)	Indicates in 3 colors: (green, blue, red) blinking in green: fully charged blinking in blue: enough for 1 dive blinking in red: need charging	Indicates in 3 colors: (green, blue, red) blinking in green: fully charged blinking in blue: enough for 1 dive blinking in red: need charging
	Transmitting mode	Pink is ON	Pink is ON
	Receiving mode	Yellow is blinking	Yellow is blinking
	Whistle mode	Red is blinking	-
	LED in charging	Red is ON	Red is ON
	LED after charging	LED is off after charging completed.	LED is off after charging completed.
Operation	Receiving mode-> Transmitting mode	Tap once in Receiving mode -> Transmitting starts VOX in Receiving mode-> Transmitting starts	Keep pushing PTT button -> Transmitting starts * Speak while pushing the button.
	Transmitting mode-> Receiving mode	Tap once in Transmitting mode -> Transmitting ends (Receiving starts) No speaking for 3 sec. in Transmitting mode -> Transmitting ends (Receiving starts)	Release PTT button. -> Transmitting ends. (Receiving starts)
	Sine wave	—	Push SIN button to start signal of beep. * Release the SIN button to stop transmitting beep. (Receiving starts)
	External terminal	—	MIC jack: (dia. 3.5mm jack impedance matching 2.2 ohm or less) EAR jack: (dia. 3.5mm jack /stereo impedance matching 16 ohm/32 ohm)
Memory	Flash memory	512MB	—
Power switch	ON	Power ON by detecting water (Receiving starts)	Turn the power switch volume right.
	OFF	Automatically turns OFF in 1 minute after removed from water.	Turn the power switch volume left.
Battery	Rating	560mAh with Li-ion battery	2210mAh with Li-ion battery
	Charging method	By USB (approx. 2 hours with 500mA for full charge)	By USB (approx. 5 hours with 500mA for full charge)
	Continuous working time	Approx. 3 hours. (assuming 10% of the time is used for transmitting)	Approx. 12 hours. (assuming 10% of the time is used for transmitting)
	Maintenance	Yamagata Casio replaces Li-ion battery.	Yamagata Casio replaces Li-ion battery.
Other functions	Voice recording	Records conversation in diving underwater. (max. 480 min. recording)	—
	Customizing tool	Several settings are available by connecting PC (Windows only).	—
	Training mode	Plays your recorded voice at once.	—
	Whistle mode	Certain volume of signal is released (with no air consuming)	—
	Dive computer alarm support	Voice or beep is released reacted by the alarms of specific dive computers	—
	Voice guide	Recorded voice tells you operation and current mode.	—
	Accessories	Cradle, USB cable, Strap, Speech training sheet	USB cable



Introduced in J Rescue

May 2014 issue (Vol.69)
July 2015 issue (Vol.76)

As an equipment of water rescue team, Logosease is introduced with pictures

Logosease Logosease Special Site
<http://logosease.yamagata-casio.co.jp>

You Tube Logosease 公式 Youtube We introduce products information and how to use by videos.
<http://www.youtube.com/user/YamagataCasioJapan>

f Logosease 公式 facebook Contains lost of information including topics in the development and columns.
<http://www.facebook.com/YamagataCasioLogoSeaseJapan>

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《Function/Use/Purchase》 Inquiry counter

Marine System Section
+81-237-43-5168

Hours: Mon.-Fri. AM9:00-PM5:00 (Japan time)

msinfo@yamagata.casio.co.jp

As of Sept., 2016

⚠ Caution To use safely, please read instruction manual before use.

For inquiry and assistance...

●Logosease is a trademark of Yamagata Casio Co., Ltd.●Specifications and outer packaging may change without any advanced notices.●Products colors on the catalog and actual ones may not be exactly same due to printing condition.●The products come with warranty, Make sure to keep the warranty certificate filled out at the shop you purchased.●The products do not ensure that you can speak clearly underwater as on land.●Transmission range or voice quality depends on using environment, (positions of speaking and hearing divers, having blocks, and sea conditions with wave, heave, clearness,)●In communication, min. two units of Logosease are needed.

CASIO

SEARCH AND RESCUE CATALOG



Logosease

DIVE TRANSCIVER Logosease



DIVE TRANSCIVER Logosease

Underwater walkie-talkie

Search and Rescue model **LGS-RG004 SAR**

LGS-RG004 SAR is pocket sized, cableless underwater walkie-talkie talking with a mouth piece of a regulator, communicating by ultrasonic wave and conveying sound with bone conduction. Communication is possible in the low visibility underwater, and moreover, approx. location of a speaking diver can be detected.

- Max. depth : 55m
- Max. communication range : 75m to 150m (※1)
- Continuous working hours : approx. 3 hours
- Communication range improved 30% compared to other Logosease



Easy to set

Just set it at the mask strap.

Releases emergency signal

Certain volume of signal is released without consuming air.

No additional equipment is needed

No need full-face mask for simple conversation.

Able to search the transmitting location

If a diver is closer to you, his/her voice sounds louder.

Hard to get damaged

No cable, cover to open, nor switches which protect the unit from entering water inside. No battery liquid leakage due to USB charging.

Able to use in disasters

Since commercially available USB adaptor is applicable, charging is available in the car cigarette lighter socket.

Inexpensive and light weight

Easy maintenance and its cost is low.

Able to grasp divers situation

Can get it in real time.

Scenes with Logosease



In commercial diving



Able to receive instructions from boat



Able to use in poor visibility underwater



In rescue drill

Surface station

Surface station **LGS-SS001**

Handy type Surface Station communicates divers with Logosease.
Max. range 200m. (*1) Emergency signal button is attached.

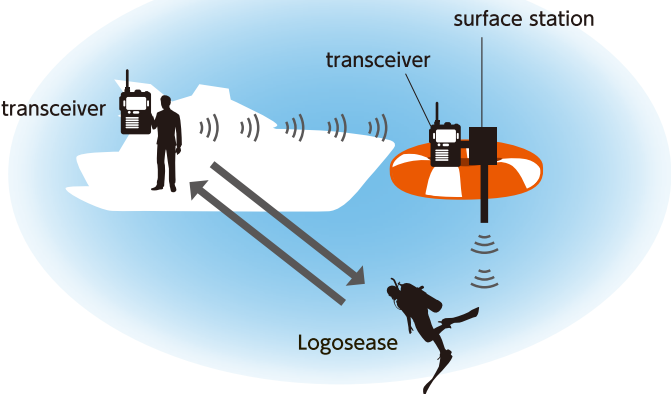
- Max. communication range : 200m
From Surface Station to underwater Logosease→max. 200m
From underwater Logosease to Surface Station→max. 60m
- Continuous working hours: approx. 12 hours
- Practical water proof (equivalent to IP-55)
Surface station with antenna 10m and 30m are available.

Option: Antenna alone of 10m and 30m are available.

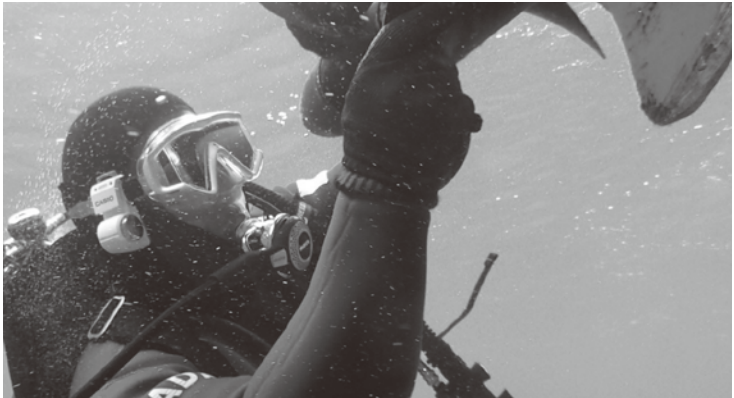


Transceiver system **LGS-SS001-TRX**

Able to communicate divers with Logosease away from you via radio repeater (surface station + transceiver). Can use as normal Surface Station (SS001) too.
Using transceiver should be applied to the radio law in each country. Contact us for details.



radio repeater



Japan Justice Aichi Pref., Japan
President Mr. Nakata
(The 1st level "Harbor underwater construction diver")

We can communicate with our buddies in a visibility of 0-50cm. Different from hookah diving, we used to feel much concerns on scuba diving as safety aspect. Until recently, we had only primitive way to check safety because there was no way to communicate to surface. Now, the safety regulations in our company states that Logosease should be used in scuba diving. We can understand how our divers are working underwater, and divers feel much relieved when they operate underwater. We have to submit operation planning document to authorities beforehand when we work underwater. We always show "Logosease" as a gear for safety in the document. I expect more divers use Logosease as their safety in underwater operations.

*1: Communication range depends on the using condition as location to your buddy, and sea condition).