MESSEIVER

USER
MANUAL

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DESCRIPTION

MESSEIVER is an irrational device for exploring the world of primal, wild radio reception — the way it was first experienced by the pioneers surveying the Earth's invisible Ether in the skies above.

Today's world is used to short-distance microwave radio communication (FM, 3-4-5G, Wi-Fi etc.), the quality of which does not depend on cosmic or planetary factors and is only defined by the transmitter/receiver's characteristics and static obstacles like buildings. In addition, modern receivers are highly selective with their designs focused on optimizing connection stability. That makes our modern radio-communication experience very linear: it's either there or it's not. That's especially true for digital communications, which today constitutes the lion's share of all our communication.

It was very different in the past. Long distance communication quality (beyond 300 km) depended on many continually changing parameters, while the simple analogue principles of transmission/reception filled the signal with a multitude of shades and nuances, charming in their unpredictability and mysteriousness. For the waves to pass from the radio station to the receiver, it took a long and complex route, every single step and component influencing the signal level that reached the receiver. Since the Earth is round, in order to go around it to cover large distances, radio waves were repeatedly reflected from the layers of the earth's crust and the ionosphere. This process was influenced by solar activity, fluxes of cosmic particles and radiation. Waves reflected, dispersed, diffracted in clouds, rain, dust accumulations, warm/cold air boundaries and even flocks of birds. When they reached space, radio waves reflected from the Moon and even the nearest planets, and returned to earth with shifts and delays, creating interference, echoes and other phenomena. Thus, the radio reception process was a very complicated, constantly changing organism full of mysteries. In old magazines on radio communication, there were radio waves propagation forecasts for various regions, similar to modern day's weather forecasts. Today we can get a radio waves propagation forecast online, for example here.

Fortunately, that world of wonders hasn't gone away and is still all around us, and MESSEIVER is the secret key to that ethereal realm above. To put it simply, MESSEIVER is a direct amplification receiver with a very low selectivity, active in the wavelength ranges previously used to cross distances as vast as Earth's own dimensions — ranges that vividly manifest the effects described above. The shortwave transmissions that can be picked up by MESSEIVER were once as essential to daily human life as the internet is today. It was the main technology for long distance communication that brought music and news to the neural network of humankind. It was the information highway of its era. Today it still exists, but is more of a bizarre abandoned world — an echo of times past rather than a practical instrument for today's purposes. But that only makes it more beautiful, the way a strange non-mainstream phenomena can be.

So, MESSEIVER picks up signals from many different shortwave stations all at once, in a wide range from all around the Earth. For each station, its loudness and timbre depend on a multitude of constantly varying local, earthly and cosmic phenomena. Sometimes there's a solid wall in a signal's way, while sometimes there's a miraculous channel to bring you waves from a tiny station on another hemisphere. Signals from radio stations become ocean waves — rising and falling, breathing with all those global and local phenomena. The result is a wonderful mix of multitudes of languages, sounds and meanings, mixed together by an invisible, non-human, cosmic DJ. And that mix is exclusively for you, it only exists here and now, defined by MESSEIVER's location, its settings, the antennas connected, and all

the sum of phenomena defining the waves' propagation. Actually, you're not listening to news or music, but observing a living, breathing Earth and Space. The same way a visitor from beyond the stars would have 'heard' Earth back during its radio era. To really feel and appreciate this, you need to live with MESSEIVER for a while, observing its behavior. It's best to always/often keep it on quiet, taking in its sounds like those of an ocean. Gradually the Primordial Ether will reveal to you its palette, its facets, and perhaps even patterns. Floating high above some specific radio stations, languages, countries, you can feel part of inexplicable global phenomena which guide the Being. MESSEIVER is a perfect ambient device, through which you listen to the breath of Life and Cosmos

LOCATION

Location is essential for MESSEIVER. Places full of industrial interference are a problem, or any with constant poor propagation for any reason.

High levels of industrial interference are likely to be found in megacities such as New York, Moscow, Tokyo and so on, and near radiation-emitting industrial facilities — like a steelwork factory using induction furnaces. Because of this industrial interference increasing a hundredfold in the last 25 years, the medium and long wave spectrum has become so polluted that today we mostly use shortwave radio communications.

As for places with fundamentally poor propagation of radio waves, it seems it's a very rare phenomenon with no clear-cut laws to it.

From our world trips with MESSEIVER it's clear that most of Europe and Asia have suitable conditions for it to work. Even European capital cities are workable, provided there are no factories or large clusters of high-rise buildings nearby.

A house in the countryside is the perfect location for using MESSEIVER. We found Asia to still have the most shortwave stations, so being in or close to that area will provide you with a richer radio bouquet.

Please note that even a perfectly suitable location has hours in the day when the Ether is 'asleep' and MESSEIVER is silent or only gets industrial background noise. That's why we recommend turning on MESSEIVER during different hours for several days to properly draw a conclusion on Ether quality in your location. Usually the worst propagation is in the daytime, the best in the evenings and during the night.

ANTENNAS

MESSEIVER's functioning is entirely dependent on the antenna(s) attached to it. A good antenna will surely yield a rich radio catch, while a bad one can render even a good location useless.

Experimenting with making antennas is fun and a fascinating adventure. Different antennas provide for different sets of stations, so you can pick up different parts of the Ether by changing antennas. Simultaneously connecting various combinations of antennas can also yield different results. MESSEIVER has four inputs to connect antennas to. Using combinations of antennas on several inputs often yields best results. So it's best to have 2–5 antennas to experiment with.

For a simple and reliable connection, the antenna inputs use pins for connecting alligator clips, like those used on the PULSAR-23.

An antenna is an isolated wire 3-50 meters long, with an alligator clip soldered to its end. The thickness of the wire or its isolation does not influence the reception. What's important is that the antenna won't break quickly and is easy to mount. It's best to use a good flexible network cable with a ~1 mm copper core and thick isolation. A very thin wire will also work, and could be a good solution for masking your antenna in a room.

Follow these rules when creating and mounting antennas:

- The antenna should be far away from electric devices or cables, but the presence of other antennas nearby is not a problem. So don't be afraid of TV antennas on your roof:);
- It's best to put your antenna outdoors, or at least in a window or on a balcony;
- The higher the antenna, the better the reception;
- The longer the antenna, the more sensitive it is;
- There's not much use in situating an antenna near large grounded metallic objects such as pipes, fittings or floors and ceilings with steel decking inside. Those will work as shields and decrease the sensitivity. That said, a non-grounded metallic object, e.g. a drainpipe, can itself be a great antenna, and a proximity or even a direct connection to it can bring a great result.
- An antenna's loose end should be isolated from the object it's attached to — even more so if that object is conductive and grounded. To isolate at home, you can tie a little rope to the antenna's loose end, and the other end of the rope to the conductive attaching object. That provides for reliable isolation and low capacitive coupling. If, however, the object is not grounded and is a good antenna in and of itself, it's the other way around: you can strip the wire's other end and attach it to that object.
- Experiment with different types of antennas and mounting locations.

SAFETY PRECAUTIONS:

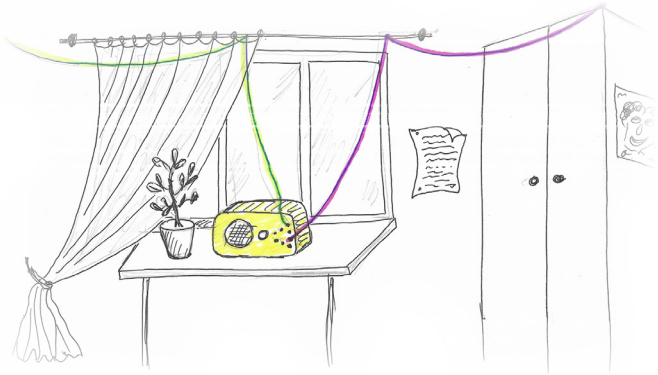
In case of risk of thunder: when your antenna is the object with the highest elevation in your area within a radius of a few hundred feet/dozen meters – during a storm, make sure to disconnect it from MESSEIVER and connect it to a grounding!!! This way you protect yourself and your home from lightning hitting the antenna. Grounding, for example, can be a metal water pipe that goes into the ground, or metal structures that have reliable contact with the ground.

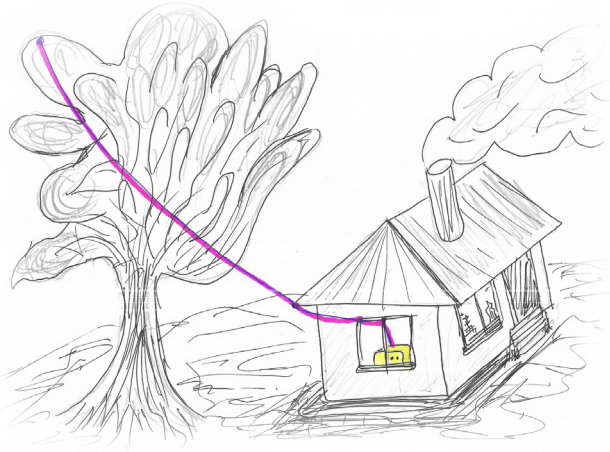
It is also necessary and important to disconnect the antenna from MESSEIVER and ground it, if the antenna is high, during a long absence, during which a thunderstorm can occur.

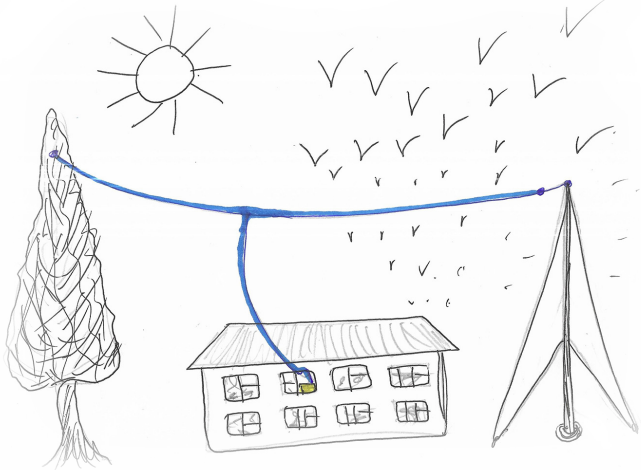
Please note that strong electromagnetic impulses picked up by the antenna during a local storm can damage MESSEIVER's input even without a direct lightning strike!

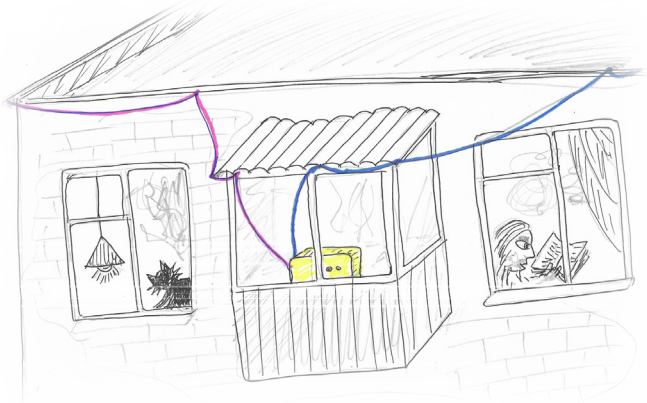
DO NOT connect an antenna to power line poles!!! It can kill you and won't give you anything but a 50/60 Hz hum before you fry!!!

EXAMPLES OF ANTENNAS:

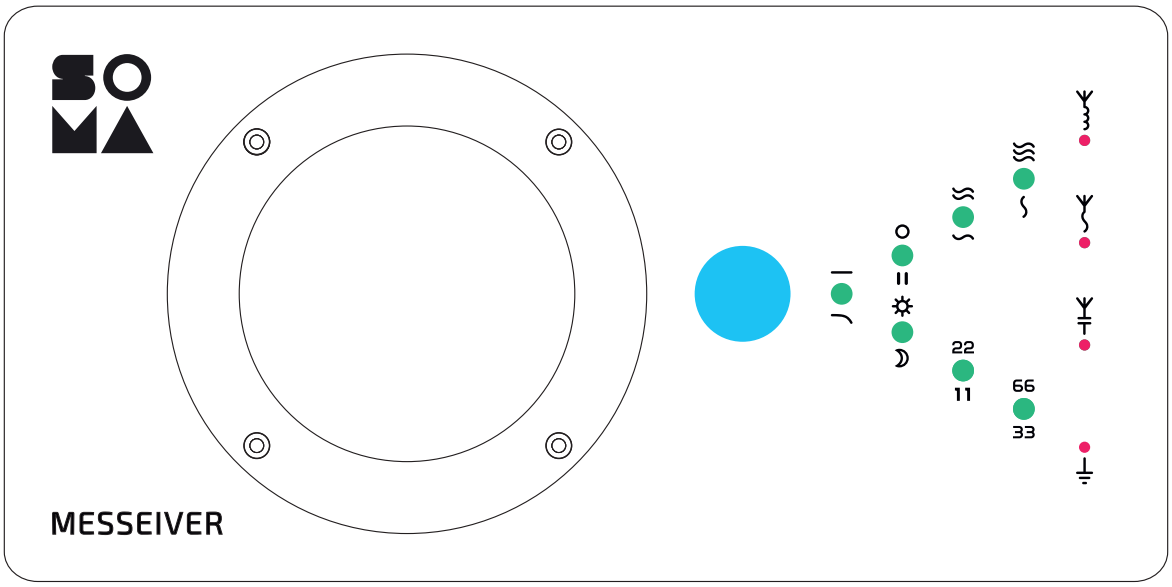








THE INTERFACE

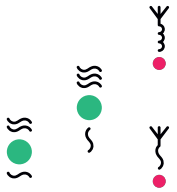


Volume control.
Switches.
Antenna inputs.

Since MESSEIVER is an irrational instrument for exploring unseen forces of the Universe presiding over the Ether, we decided to present this part of the manual using elements from humanity's ancient myths.

THE DOMAIN OF GODDESS NAMMU

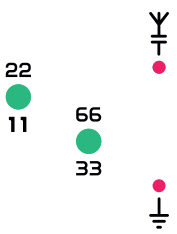
Nammu is the Goddess of pulsation, vibration and waves. Her home is the primordial ocean. Her passion is eternal change. In her depth, there is pure limbo.



In MESSEIVER Nammu supervises the following area of the interface:
This part has two 3-way switches and two antenna inputs.

THE DOMAIN OF GOD SATURN

Saturn takes care of structures and boundaries. He is wherever laws govern cycles and repetition. Order and numbers are his passion. In his depth, there is lucid simplicity.



In MESSEIVER, Saturn supervises the following area of the interface:
This part has two 3-way switches and two antenna inputs.

In confronting each other, Saturn and Nammu resonate, creating a space where objects and phenomena can exist in the form of standing waves of Energy, flowing from state to state. This is how sounds, voices and meanings are born inside the phenomenon we call Connection.

THE HIGH-FREQUENCY
ARCHISTRATEGOS ELIGENTIS

Defines which domain the signal is taken from.
Top position — the domain of Nammu,
Bottom position — the domain of Saturn.

THE HIGH-FREQUENCY
ARCHISTRATEGOS LUCIFER

Supervises the Primordial Light — the basis of all energies and vibrations.
The more Light, the more intensive the resonance of Saturn and Nammu.
Top position — Lucifer provides the Light.
Bottom position — Lucifer takes the Light away.
Middle position — Lucifer sleeps.

THE EARTHLY
WORLD

In MESSEIVER, it consists of a filter switch and a volume knob.

When the switch is flipped up, the sound is reproduced as is.
In the bottom position, high frequencies are cut, which cancels interference hiss and unpleasant radio noises.

The volume knob optimizes mixing the waves of Cosmos with your internal waves.

On the rear panel, hidden from the eye

- Mains power input: 110-220 Volts and 115-220 Volts switch. (see THE 115–230V SWITCH).
- Power on/off switch
- A 10-18 power input (center "+") to connect MESSEIVER to a battery or an accumulator.
- Output for connecting headphones or a recorder.
- External IN that turns Messeiver in an old fashion speaker.

SETTING UP

Start with trying various combinations of antenna connections and adjustments of the Nammu, Saturn and Eligentis switches to find the most interesting part of the Ether. Nammu influences reception the most, so it might be best to start with setting all Saturn's switches to the middle position and use the Nammu and Eligentis switches while experimenting with different antenna connections to find the most interesting reception. Then you can try to improve the sound picture using Saturn's switches.

If the reception is weak, you can brighten it by flipping up the Lucifer switch. If the signal is strong, then the middle position gives you a more legible reception. In some cases, the lower, demonic switch position yields interesting results.

Adjust the filter and volume knob to your taste.

Experiment by varying the settings and connections to find the most interesting soundscapes.

MESSEIVER has an option to completely disconnect the internal input circuits, which allows you to connect external ones of your own making. Just put Nammu and Saturn switches into their middle position, and Eligentis into its bottom position. Connect the external circuits to these antenna inputs:

A classic input circuit is a combination of induction coils and capacitors for the radio frequency range, but you can feel free to try any other passive components.

We don't recommend connecting powered electric devices to MESSEIVER's inputs—this can damage the device! This type of damage is not covered by the warranty!

RECORDING SOUND AND CONNECTING HEADPHONES

Of course you'll want to record MESSEIVER's inimitable soundscapes. This is best done using a microphone or a portable recorder (like ZOOM) and placing it next to MESSEIVER's loudspeaker. This will provide both the loveliest sound and the cleanest radio reception.

But you can also record from the line output on the rear panel, marked as **OUT**. This output is connected directly to the speaker and is usable for connecting to external devices as well as headphones. The output is an unbalanced TS (mono) 1/4 inch (6.35mm) jack. So, you'll need a mono jack to connect to an external device like a mixer or recorder, and a "TS 1/4 inch to TRS 3.5mm mini-jack" adapter to plug in your headphones.

The line output is isolated from high frequencies in MESSEIVER's chain. It's to prevent external connections from interfering with the reception, as all MESSEIVER's circuits participate in it, including the grounding. But still some external connections can influence the sound and reception. That's why we recommend microphone recording from the internal speaker.

USING BATTERIES

You can power MESSEIVER with batteries or accumulators (rechargeable batteries), which allows for outdoor use. For that there's a DC10-18v input on the rear panel. The input uses a standard DC 5.5/2.1 mm socket, with center + polarity. MESSEIVER has a built-in stabilizer to allow for the wide range of 10 to 18 Volts.

THE 115-230V SWITCH

MESSEIVER can be powered by mains power of 110-230 Volts. On the rear panel of MESSEIVER, there's a 115/230V switch . We sell MESSEIVER with the switch in the 230V position. If your country uses 115V mains, you need to switch it to 115V. For making it, turn the device off, and flip the switch using a screwdriver or similar tool. **Using MESSEIVER with a switch setting that does not match the voltage in your country may cause damage to the MESSEIVER that is not covered by the warranty!**
The switch position doesn't influence the DC input for using batteries.

Opening MESSEIVER while it's connected to the mains is lethal!

SPECIFICATIONS

Territory covered . . . . . Earth
Received frequency range . . . . . 3-40 MHz
Output power . . . . . 5 Watts
Line output . . . . . TS 1/4 inch jack
AC Voltage . . . . . 110-230 Volts (see THE 115-230 V SWITCH!)
DC Voltage . . . . . 10-18 Volts, 250 mA, 5.5/2.1 mm, "+" in the center
Dimensions . . . . . 365 x 185 x 145 mm
Weight . . . . . 2.8 kg

CREDITS

Andrzej Slovik — manufacture organization and control.
Evgeniy Aleynik — judicial support.
Grzegorz Lacek — organization, sales, management and communications.
Grzegorz Lelonek — wooden body manufacture.
Malgorzata Marcinovska — CEO.
Marta Lacek — communications and sales.
Nastia Azari — animation in the demo video.
Regina Volkova — management, communications, website.
Thomas Lundberg — communications, proofreader, utopian linguist.
Vladimir Kornienko — translation for the English manual.
Valeriy Zaveriayev — user manual design and layout
Yekaterina Vorkhlik — panel design drawing.

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