

Main screen

Indicators and panel quick start

- S-meter (press to change view and switch to the histogram or "waterfall" mode for the low-frequency signal, press and hold to turn metering on/off
 RSSI/SNR signal quality, use for
- reduce digital noise)
- volume (press to turn sound on/off)
 SQ indicator of a working squelch
 MF simultaneous function indicator
 listening to multiple frequencies (page 5)
- indicator panel for switching on circuit elements (click to display control buttons) (page 3)
- Wi-Fi connection (tap to turn on/off) indicator color:
 - green connection active
 - orange no Internet connection
 - red connection error
 - gray no available networks
- battery charge level (tap to display in percentage or volts)
 "lightning" is displayed while the battery is charging as the charge level decreases, the color changes to yellow and red



Status panel

- use of BFO generator for fine tuning to frequency
- automatic gain or attenues
- automatic gain or attenuator
- LF bandwidth
- range
- modulation
- setup step

Main screen (FM band)

- tuning frequency in MHz (press and hold to switch between VFO A/B)
- signal quality:
 - RSSI level
 - SNR signal to noise ratio
- stereo broadcast reception indicator in range FM (press to turn on/off stereo reception)
- current date and time
- RDS information (station name, text and program type)



RSST 13 dbu/ SNR 0 db KHZ 0 1 2 3 4 5 6 7 0 3 +10 +30 +50 AD 50 VOLUME HE 1 L005 100x1 AD HAM BAND FRED ND	TΈ	MUT		2200 200	BFO AGC
0 1 2 4 5 7 9 100 40 0 1 2 4 5 7 9 100 40 0 Volume ME 1 100 100 41 HAM BAND FRED NID		UOL		Digi	
HAM BAND FRED NO	IC I	AC		6 7 8 9 +18	012345
	l, l,	約7"	₩ 100× 1	NF ST LOOK F	SO VOLUME
	DE	MOD	FRED	BAND	HAM
BLA SIEL BHWAM WE	×T	NEX	BANDW	STEP	BFO

BFO AGC		FM 100	RDS
24 МАЯ 2024 ESTI	HOBOG	MHz	FM
012345	6789+10	+30 +50	RETRO
SQ VOLUKE	MF BT LOCK		MEMO
>> UP	SCAN	SETUP	CB
<< DN	LIGHT	INFO	BACK

Main screen (SSB modulation)

- tuning frequency in kHz (click to directly set frequency without using BFO offset, color the numbers will change to white)
- indicator of a variable digit in the frequency when tuning (click on the corresponding digit to installations)
- indicator of the passage of waves on the selected range (information obtained from the Internet), color indicator shows the quality of passage (red bad, yellow average, green good)
- information about the type of amateur radio communication used in the current range section

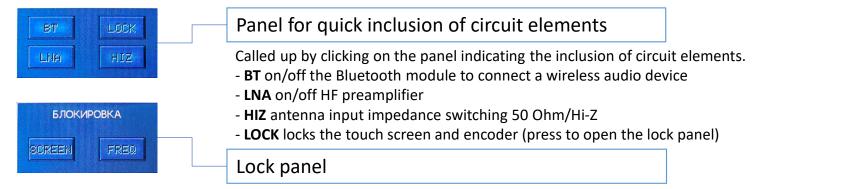
Buttons

- HAM selection of amateur radio band (page 6)
- BAND selection of broadcast band (page 6)
- **FREQ** frequency setting / simultaneous mode listening to multiple frequencies (page 5)
- STEP selection of tuning step (page 6)
- **BANDW** selection of bass bandwidth (page 6)
- MODE modulation selection / decoder modes (page 6)
- VOL / MUTE volume control (page 4)
- AGC on/off automatic gain (page 4)
- ATT attenuator control (page 4)
- **BFO** control of BFO oscillator/frequency generator SI5351 (page 3)

- UP search for broadcast station up in frequency
- DN search for broadcast station downward in frequency
- SCAN range scanner (page 8)
- LIGHT display brightness control (page 19)
- MEMO memory of stations and cities (page 9)
- RETRO retro receiver scale (page 12)
- CB civil band CB channels (page 11)
- FM fast switching of saved stations
- FM band of current location (page 11)
- RDS on/off RDS functions
- SETUP device settings (page 13)
- **INFO** information about the device, settings and passing waves (page 17)
- NEXT / BACK switching between pages



Quick start panel / BFO generator



- **SCREEN** enable touch screen lock, use to block accidental taps on the screen (can also be used to reduce your own digital noise)

- FREQ on/off encoder rotation lock

The locks are disabled by pressing the encoder button.

25 Hz AGC	2200 200 Ti Hz	BF0	MUTE
RSSI 17 aBut		010.00	VOL
012345	6789+10	+30 +50	ACC
SQ VOLUME	MF BT LOCK	- 100× 1	ATT
HAM	BAND	FREQ	BOOM
BFO	STEP	BANDW	NEXT

BFO generator

To fine tune to the transmitter frequency in SSB mode, use a BFO generator. Entering the oscillator trim mode is available for each amateur radio band using BFO button or long press the encoder button.

BFO builton of long press the encoder builton.

In this case, each range retains its own BFO frequency value.

The adjustment frequency value varies from -1999 to +1999 Hz. The adjustment step is displayed on the status panel and can be changed by pressing the STEP button.

If the device uses an SI5351 generator, then to fine-tune it is necessary to use the

BFO Press the BFO frequency once and the SI5351 frequency will be displayed.

Resetting the BFO or SI5351 frequency to default values is done by long pressing the frequency.



8F0 AGC		UME	MUTE
SO CONTRACTOR			VOL
012345	56789+10	+30 +50	AGC
SQ VOLUME	MF BT LOCK	- 100× 1	ATT
HAM	BAND	FREQ	MODE
BFO	STEP	BANDW	NEXT

BFO ATT 1	RUTO FM	FM 100	MUTE
2027 975TFM	RF Hobo	ATT CTM	UOL
01234	5 6 7 8 9 +10	+30 +50	AGC
SQ VOLUME		- 100× 1	ATT
нам	BAND	FRED	MODE
BFO	STEP	BANDW	NEXT

Volume control

To control the volume, press the VOL button or the encoder button once.
To mute the sound, press the MUTE button or the volume indicator.
To automatically mute the sound when there is no station signal, use the squelch.
To adjust the squelch level, press in volume control mode to the value volume or once on the encoder button. The squelch level bar will be highlighted. brighter and can be adjusted using an encoder.
Squelch is not available for SSB mode.

Auto gain and attenuator

Use the built-in attenuator to control signal gain. Entering control mode the attenuator is performed by pressing the ATT button. Set the required value using the encoder attenuator level to eliminate everland at the PE input. The higher the value, the weaker

attenuator level to eliminate overload at the RF input. The higher the value, the weaker signal amplification.

Press the ATT button again to exit the attenuator adjustment mode. The set level will be displayed in the status bar.

Press the AGC button to enable automatic signal gain. The status bar will display corresponding indicator. Press the AGC button again to set the maximum level gain. The corresponding indicator in the status line will be extinguished.



			CANCEL
	3 .0	O MHz	SCAN
7 45	10	kHz	<}
1	8	3	OK
4	5	6	
7	8	9	Ø

СПИ	1COK CKA	АНИРОВА	ния
7450	000 кГц	41M	AM
	752	000	
	Пу	сто	
	⊓у	СТО	
	⊓y	сто	
- Billion	⊓у	сто	
	-Ty-	сто	
	⊓y⊓	CTQ	
CHANGE	SCAN	MODE	EXIT

The CHANGE button is used to calling additional buttons. Click => to return.

Direct frequency entry buttons

Press the FREQ button on the main screen to enter the frequency or set the listening mode several frequencies.

Use the number buttons to enter the frequency. The units of measurement will be selected automatically. Use the dot to enter the FM broadcast frequency.

To delete incorrectly entered numbers, use the \leftarrow | button.

A frequency that cannot be set is displayed in red.

Click OK to set the frequency. The range and type of modulation will be selected automatically.

To exit without changing the frequency, press CANCEL.

Press SCAN to enter multi-frequency simultaneous listening mode.

This mode is not available for SSB.

For each range and type of modulation AM or FM can

be created your own list of 7 frequencies to scan. Range

will be selected automatically according to the entered frequency.

- **MODE** select the type of modulation, if possible
- OFF disables the frequency of the selected slot from scanning
- ADD adding the current frequency to a free slot
- **DEL** release the selected slot
- SCAN start listening.

The sound will be muted and scanning of frequencies from the list will begin. When a signal appears on one of the frequencies, scanning will paused and the frequency will appear in white. Tap the screen to exit the mode.





19回

16回

15时

13回

11M

HF

РАДИОЛЮ	РАДИОЛЮБИТЕЛЬСКИЙ ДИАПАЗОН		
		ULU U kHz	essm
160M	4011	1711	190
891	NBE	15M	em
eøm	20M	12M	SM
CB	AIR	MAR	UHF



Amateur radio bands		ВЕЩАТЕ	пыный ди	1АПАЗОН
Broadcast bands				kHz
Lists are available using the HAM and BAND b	uttons.	129M	eøm	31M
The lists contain frequency ranges allocated for radio amateurs and radio broadcasting.	or	90M	49M	25M
Range boundaries can be overridden in the fil		75M	41M	2211
setting.ini. Frequency values are available fo INFO section.	or viewing in	FM	LW	MM

To select modulation, bandwidth or tuning step, click the appropriate MODE, BANDW or STEP button on the main screen.

The current range, modulation type, bandwidth and tuning step are indicated in the lists pressed button.

Ranges and types of modulation not available in the receiver configuration are indicated by gray buttons and cannot be selected (see the description of your device).

To exit without changes, click on the frequency.

Types of modulation / decoder of Morse code and digital modes of communication

All possible types of modulation are available for the amateur radio and HF bands. The CWR and CW buttons enable the Morse code decoder. Select the alphabet in the settings (page 14). The DIGI button opens a list of digital communications to launch the corresponding decoder (page 7). When you select a band, the priority modulation type will be turned on automatically.



BF0 AGC IGGG 20M IGGHz MUTTE Speed MPN: 14 KHz MOL Speed MPN: 14 KHz AGC Speed MPN: 14 Speed MPN: 14 AGC Speed MPN: 14 Speed MPN: 14 AGC Speed MPN: 14 Speed MPN: 14 Speed MPN: 14 HAM Speed MPN: 14 Speed MPN: 14 HAM Speed MPN: 14 Speed MPN: 14 HAM Speed MPN: 14 Speed MPN: 14 Speed MPN: 14



Morse code decoder

For successful decoding, align the red mark on the "waterfall" with the signal while adjusting the frequency. Select the volume level so that the signal is clearly visible at the "waterfall" (usually volume 45). The yellow indicator will flash in time with the signal. The decode line displays the decoded characters and words per minute.

Digital mode decoders

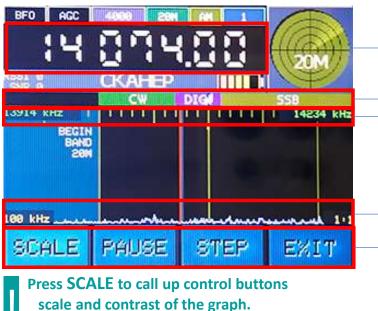
To decode RTTY, PSK and Feld-Hell transmissions, align the red mark on the "waterfall" with the signal and adjust the volume. For RTTY L, use the left signal stream, and for RTTY U, use the right signal stream. To manually scroll the RTTY, PSK and FT4/FT8 decoding screen, press SCROLL and rotate the encoder. The SET button for RTTY sets the baud rate to 45.45/50/75 baud. For Feld-Hell, turn on/off anti-aliasing Pictures. For PSK, switches between BPSK31 and BPSK63 modes. In FT4/FT8 decoder it is used to set time manually (page 13).

To move the Feld-Hell picture up or down for For ease of reading, use the SCROLL button. Decoding FT4/FT8 broadcasts requires accurate setting the time. Connect the receiver using Wi-Fi to the Internet or set the time manually. When the time is set, it is displayed in the UTC TIME line. For each FT4/FT8 gear, time, power are displayed signal, offset in seconds from the start of the session, offset frequency from the set one and the transmission data packet.





Range Scanner



Frequency at cursor position

Rotate the encoder to move the cursor or select a location on the display

Indication of types of amateur radio communications

Scale

- initial and final scanning frequency
- marks of found signals

Signal graph

- scale step
- chart scale

Buttons

- graph based on RSSI and SNR of the signal

- Click => to return.
- FREQ horizontal scale control
- RSSI vertical scale control
- SNR graphics contrast control
 - to control, rotate the encoder or press and hold in the center of the graph to set the default value
- **PAUSE** press to stop scanning and listen to the broadcast turns on automatically when you move the cursor
- STEP press to select the encoder setting step





МОСКВА

FM

EXIT

SCAN

CHANGE

Station memory list

The current frequency, modulation type and range can be saved into the receiver's memory. To set settings from a saved memory cell, rotate the encoder to search for the desired cell, then press the encoder button or SET button or the desired cell.

The list display filter is set in the SETUP -> MEMORY LIST section (page 14).

To save the current settings, press the ADD button. To edit a saved cell

press the EDIT button. To delete a cell, press DEL.

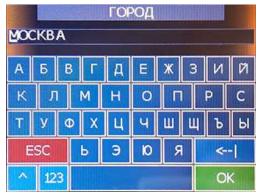
When saving or editing a memory location, you must enter the station name using the on-screen keyboards. Then, rotate the encoder to select a location where the station can be received.

THIS – the station will be saved for the current city. ALL – the station is available in any city. NONE - There is no connection to the city.

The current city is shown at the top of the list. Press CITY to go to the list of cities.

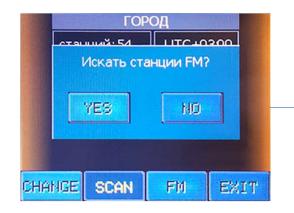
List of locations (cities)

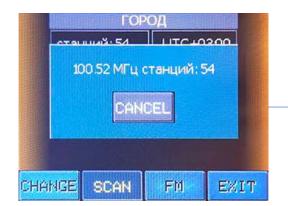
For correct display of time and distribution stations in the cities you are located in add your location to cities memory. Just like city stations, you can add, change and delete. After editing the city name, you must Rotate the encoder to select the time zone. Press SCAN to search and save FM stations range (page 10). Use the FM button to go to list of saved FM stations for the city.





Search and save FM stations





For each new location, unique lists of FM stations can be saved.
You can manually add stations to the receiver's memory or edit memory files (page 19).
You can automatically search for FM stations and save them to the receiver's memory for current location. First add your location to the list of cities (page 9).
Press SCAN to start automatically searching for stations.

Automatic search for FM stations

During the search process, the current frequency will be displayed and number of stations found.You can abort the search at any time without saving list of found stations by pressing the CANCEL button.When the search is complete, save the stations found.Then press the FM button and change the station names created automatically. You can edit list on your computer (page 19).

Saved station names will be used in FM mode (page 11), as well as in retro scale (page 12).





BFO AGC	нито гн 97,60	FM 100	RDS
	BECTH VESTIFM		FM
SPECTRUM 20			RETRO
SQ UDLUME	MF BT LOCK	e heltade hitotalelle. 77%	MEMO
>> UP	SCAN	PROG+	STEREO
<< DN	LIGHT	PROG-	UOL

BFO AGC	4000 CB	(AM 5	GRID+
AM 20.155	kHz (5 (8)	GRID-
012345	6789+18	+38 +58	EU
SO VOLUME	MF BT LOCK	77× 1	MEMO
>> UP	AM	NFM	CB
<< DN	LSB	USB	VOL

FM channel mode

Stored FM stations can be switched as a channel list. To enter FM mode channels, press the FM button on the main screen. This mode displays station name, frequency, RDS information, stereo reception indicator and time. Switching channels is done by rotating encoder or by pressing the PROG+ and PROG- buttons.
STEREO button turns on/off reception of a station in stereo format.
RDS button turns on/off receiving RDS information.
To exit FM channel mode, press the FM button.

CB channel mode

It is possible to listen to CB civil band channels. To enter the mode

CB channels press the CB button on the main screen. In this mode, the channel number, letter

grid designation, frequency, modulation type and time.

Channels are switched by rotating the encoder.

Switching grids is done using the GRID+ and GRID- buttons.

EU button on/off using the European frequency grid.

The AM, NFM, LSB and USB buttons enable the corresponding type of modulation.

To exit CB channel mode, press the CB button.

In channel modes, the search for stations up and down in frequency also works using the UP and DN buttons. To change the theme, tap on the screen in the center. Four themes are available.





The SET button is used to calling additional buttons. Click => to return.



Retro receiver scale

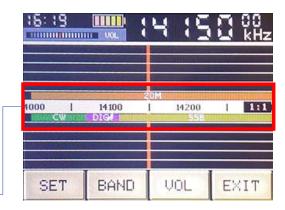
To display the retro scale, press the RETRO button on the main screen. The scale will display stations of the selected band and cities stored in memory cells. Navigation along the scale is carried out by rotating the encoder or sliding on the touch screen. To automatically advance the scale to the next station, quickly swipe the screen in the opposite direction and release. Rewinding will stop at the first available station. The rewind direction is changed by rotating the encoder. To stop, press the screen or encoder. To change the scale scale, click on the red 1:1 indicator on the right and, while pressing, Move the scale indicator to the desired position.

At the top there is a volume indicator (press to mute the sound on/off).

The screen displays the current frequency, the name of the band and city, as well as the time and battery charge.

- CITY list of cities
- **BAND** band selection. The ranges are divided as in retro receivers by the passage of waves depending on time days. Color indication shows passing conditions.
- STEP selection of tuning step
- VOL volume adjustment (rotate the encoder to change)
- BFO BFO oscillator setting (available for SSB modulation) Modulation switches automatically depending on range at the cursor position.

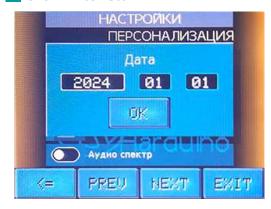
Indication of range and types of communication







The <= button is used to calling additional buttons. Click => to return.



To enter setup mode, press the SETUP button on the main screen. Settings are divided into pages. Switching pages is done by rotating the encoder or using the PREV and NEXT buttons. Click WIFI for connection settings (page 15). Press RESET to load default settings. To save

settings, press SAVE or EXIT and confirm saving.

<u>RADIO</u>

- ITU region select the region on the map
- RDS time get time from RDS
- FM band start in 64 MHz beginning of the FM band
- Save step individual for band step can be saved for modulation type or for each range. Only until restart
- **RBDS program type** American standard RDS TP <u>PERSONALIZATION</u>
- Frequency digit backlight imitation seven-segment indicators
- Highlight the frequency in SSB in color if the BFO is not zero for tuning in SSB mode is used Oscillator BFO bias. When the offset is not
- equal to zero, the frequency digits are displayed darker.
- Buttons click to change the appearance of the buttons
- Language select the interface language

- **Setting clock** manually setting the date and time. Set the date first, then the time. Choose edit field on the screen and rotate
- encoder for installation. When the seconds field is selected. The countdown stops. Click OK to precise installation. After which the countdown will resume.
- **24-hour time format**, choice of 12/24 hour format
- Retro S-meter indicator display in retro style
- Audio spectrum switching view S-meter / spectrum DISPLAY
- Screen saver enable screensaver (page 19)
- **Display light off in screen saver** turn off the backlight by after the period of inactivity has expired
- Wait time to saver in minutes select after how many minutes will the screensaver turn on or go off screen backlight after last action
- **Screen orientation** select the rotation angle of the display. Quickly rotate the screen at any time: press and hold the encoder and tap on the screen.



Settings

SCANNER

- Scanning SSB in AM modulation graph will be displayed for AM modulation when SSB is enabled MEMORY LIST
- View not city linked in the list stations with city label NONE are displayed
- View all city linked in the list stations are displayed not only for the current cities. Stations linked to other cities are marked OTHER in the memory list.
- View only from current band in the list stations of the selected band are displayed BATTERY
- Battery indicator display battery indicator
- Battery value in volts display charge in volts or percent
- Warning about an unacceptable battery level A message will be displayed if the battery is charged batteries will exceed acceptable levels
- HARDWARE
- Encoder reverse, rotation direction selection
- Encoder step select encoder type
- Beeper selection of beeper sound

<u>ANTENNA</u>

- LNA on/off RF preamplifier
- **Hi-Z antenna input impedance** on/off matching Antenna Impedance Hi-Z/50 Ohm

<u>SI473x</u>

- **Mute the sound when turned on**, the sound will be turned off when the receiver is turned on
- Inversion GPO1 invert control signal on pin GPO1
- Inversion GPO2 invert manager signal on pin GPO2

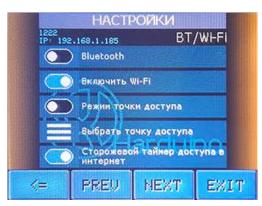
<u>DECODER</u>

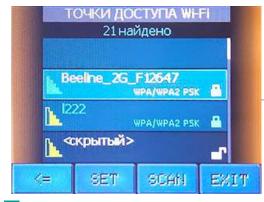
- Decoded data send to COM port

decoded data can be received using the Putty program on a personal computer computer (connect your receiver using USB cable and install the device driver)

- Feld-Hell picture smoothing image, received when decoding a Feld-Hell transmission will be smoothed for easier reading
- **Cyrillic alphabet in CW** for alphabet decoder Morse will use the Cyrillic alphabet







The <= button is used to calling additional buttons. Click => to return.

<u>BT/Wi-Fi</u>

- Bluetooth on/off for connecting wireless headphones or speakers
- Wireless on on/off the Wi-Fi module
- Access point mode enables built-in hotspot. The connection can be used in there are no other access points to connect to the receiver (not currently used).
- Select AP displays a list of available access points (also available by pressing the WIFI button)
- Internet access watchdog timer is used to restart the connection if there is no connection Internet access

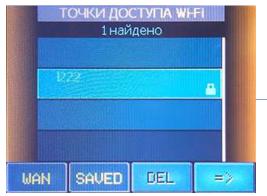
Available access points

Saved access points

Scanning access points takes a few seconds. Then the list and quantity will be output found access points. Rotate the encoder to search. If no access points are found or signal too weak, check the Wi-Fi antenna connection (do not use the Wi-Fi module without an antenna).

- WAN on/off Wi-Fi module
- SCAN search for access points
- SET establish a connection to the selected access point or click on the desired access point (when connecting for the first time you will need to enter a password)
- DEL remove access point from saved ones
- **SAVED** list of saved access points Access Point Name Color:

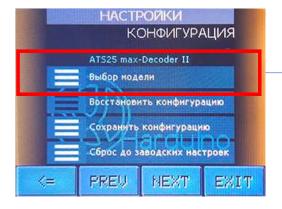
blue – access point in the list of saved ones yellow – a connection attempt is in progress green – connection active

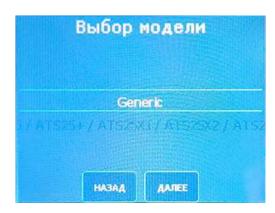


Wireless Settings



Setting up device components





Selecting your device model

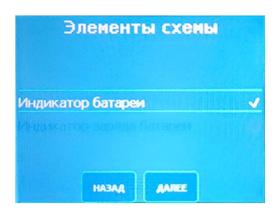
For the correct functioning of all components of the receiver, it is necessary to select the correct model. The currently selected model is displayed on the <u>CONFIGURATION</u> page. Here you can save or restore the settings configuration, as well as load the factory settings. Click Select Model. If your device has not been modified and only contains components

installed at the manufacturer's factory, you should rotate the encoder to select your model from the list. If changes have been made to your receiver or you assembled it yourself, then choose a model

"Generic" Click "next". And then, by rotating the encoder and pressing the screen, check the boxes opposite those components that are installed in your receiver.

The following components are available for configuration:

- battery charge level indication
- indication of the battery charging process
- additional Lock button (present in receivers ATS120 and ATS200 series
- Bluetooth module
- Morse code and digital communications decoder
- HF preamplifier
- 50 Ohm / Hi-Z antenna impedance switching circuit
- HF range filters present in various models
- special mixer of ATS200 series receivers for aviation band
- non-standard connection of the mixer for the converter ranges to pin CLK 0 of the SI5351 generator





Update/Device Information



HAMQSL.COM 24 MAR 10:36			
60 - 40 M	ДЕНЬ	ночь	
30 - 20 M	ДЕНЬ	ночь	
17 - 15 M	ДЕНЬ	ночь	
12 - 10 M	ДЕНЬ	ночь	

The firmware update can be installed using a PC or obtained automatically from a server updates. Information about the availability of an update is available on the <u>UPDATE & LICENSE</u> page. To update online, you must connect the receiver to the Internet. Then click "Update" embedded software." The update files will be searched for and downloaded. Read the information and run update process.

After updating the software, download additional files (localization file, etc.).

If you need to revoke your activation key for use on another device, first obtain the code from website. Log in to your account using your Email and activation key. Then revoke the key on this settings page.

Information section

The section is entered using the INFO button on the main screen.

This section contains several pages of information. To turn pages, rotate the encoder.

Press the screen or encoder to exit the section.

Here you can find information about the firmware version, settings and status of the equipment, connection

Wi-Fi, device components, range limits, receiver manufacturer and model, serial

device number, software developers and copyrights.

Information on the passage of waves on the HF bands, obtained from the website HAMQSL.COM, is also available. The date and time of the last download of information are indicated.



BFO AGC	8200 30M		MUTE
RSSI 25 dBull SHR 0 dB KHZ			UOL
			AGC
SO VOLUME NF BT LOCK			ATT
HAM	BAND	FREQ	MODE

Virtual encoder

In all modes, you can use on-screen buttons that duplicate the actions of the encoder. The virtual encoder is called by sliding upward from the bottom edge of the screen. To close the virtual encoder, use the slide in the opposite direction. After a period of inactivity, the screen encoder will close automatically. Press and hold the arrow buttons to simulate encoder rotation.

Actions to take when turning on the receiver

RESET TO FACTORY SETTINGS

With the device turned off, press and hold the encoder button and turn on the power. When the LOADED DEFAULTS message appears, release encoder All receiver settings will be restored to their original values. After the reset, you need to perform the initial setup main parameters.

FILE SHARING MODE FROM PC

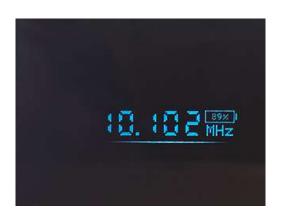
If you need to access files in the device's memory before starting, then with the device turned off, press and hold the screen and turn on the power. When a message appears indicating that you are ready to exchange files using the A-explorer program, release the screen and connect your receiver to the PC with using a USB cable. The device driver and A-explorer file sharing application must be installed on the PC. Applications to install and user manual are available on the website HARDUINO.RU in the "Download" section. Tap the screen to exit the mode. SCREEN CALIBRATION

In file sharing mode with a PC, press and hold the screen until a message appears indicating that screen calibration has started. Continue holding for reset calibration settings or release the screen and then click on the positions indicated by the green arrow one by one. Calibration is complete.



Files in the receiver's memory

To download files from the receiver to your PC, upload or delete, use the A-explorer application. Use notepad for editing. city.csv list of locations (id, name, time zone) preset.csv list of stations (frequency, name, city id, modulation) label.csv list of frequency boundaries of various types of communication decoder.log decoder log file (erased when the decoder starts) scan.csv frequency lists for simultaneous listening mode ap.csv list of saved Wi-Fi access points setting.ini override settings *.lng interface localization files value.hex dump of saved settings



To increase the battery life of your device without recharging, use simple functions.

- enable a short period of inactivity in the settings until the screen saver appears. During the transition When the receiver enters standby mode, some functions are suspended. At the same time, listening to the broadcast doesn't stop.
- enable in the settings to turn off the display backlight after a period of inactivity. Disable
 You can also turn on the backlight by pressing the LIGHT backlight control button on the main screen and then pressing backlight brightness level indicator. You can turn on the backlight by tapping on the screen.
- reduce the brightness of the screen backlight. Press the LIGHT button on the main screen and rotate the encoder.
- turn off Wi-Fi after receiving the necessary data from the Internet. Turn off the Bluetooth module, when not using a wireless audio device.
- Use wired headphones to reduce energy consumption.

