



Release Notes for GD-88 firmware B49E.D6*.EOPSAB.013 (A) B49C.D6*.EHRNAB.008 (B)

*) '6' or 'T' depending on the production batch

March 30th, 2023

We would like to thank all Radioddity GD-88 customers for their constructive feedback.

If you do find any bug in the radio's firmware, our CPS, this documentation or if you are missing a feature, you would have expected, write an email to support@radioddity.com. In general, the software- and firmware-updates for your Radioddity GD-88 are free of charge. Using a CPS or a firmware not originating from Radioddity may void your warranty.



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<https://www.radioddity.com/>



<https://www.facebook.com/radioddity>



<https://www.youtube.com/c/Radioddityradio>

Release notes

The following table lists the details that had been changed with new versions of the firmware.

Attention: *Never update your radio unless it is really required or with other words 'Don't fix it, if it isn't broken'! This cannot be stressed often enough. Only take those firmware as found on our support pages. Before performing an update, double check that the firmware on our support page has not been withdrawn.*

Firmware Release notes for GD-88

revision	Changes	released
B49E.D66.EOPSAB.013 2023-03-27 14.46.07 (A) B49C.D66.EHRNAB.008 2023-03-22 10.18.56 (B) *) '6' or 'T' depending on the production batch In case you get a white screen after updating your GD-88 with this firmware, please: 1. turn off the radio 2. press the green button and keep it depressed 3. turn on the radio and wait about 2 seconds for the startup logo to be displayed If this fails, just repeat the 3 steps. This is a one time procedure. As soon as the startup logo is displayed as expected, you are done and it will not be required when again turning on the radio.	• 'VFO-B Unprogrammed'-bug fixed • TX of Analog DTMF now fully supported • TalkerAlias-data now displayed correctly • Radio menu may be operated even during an active QSO • Improved reaction timing when changing the volume • Single VFO-mode is now possible and utilizes the complete screen (to turn it on/off: MENU → Local Set → DisplayMode → Single Mode). Active Single Mode will disable switching between VFO-A and VFO-B. • DMR-audio level aligned to analog-audio level • If no RX-Group is assigned to a channel, traffic for the assigned talkgroup will now still be received • 'RXGroupList' menu within 'Device Info' now displayed correctly • No powercycle required after writing the codeplug to the radio in order to make the GPS menu available again • Current entry of menu or submenu and the total number of entries are displayed in the upper right corner above each other • Icons updated • Current RX group and Zone displayed during RX as long as DMR ID database has not been uploaded to the radio or active station is not listed within the uploaded DMR ID database	2023-03-30

revision	Changes	released
B49E.D66.EHPSAB.010 (A) 2022-11-19	DMR ID data now properly displayed (no more display of wrong DMR database data)	
B49C.D66.EHRNAB.005 (B) 2022-11-11 <i>withdrawn due to incompatibility with the newest production batches</i>	- Assignment of 1450 Hz Pilot tone fixed (does require at least CPS 3.3 DMR CPS_DRS [9.2.16]) - minor fixes within the Talker Alias display - support for programming cable based on FTDI-chip	2022-11-21
B49E.D64.EHRSAB.007 (A) 2022-10-27	- Talker Alias (TA) now supported - Besides 1750 Hz, the radio now also supports pilot tones / burst tones of 700 Hz, 1000 Hz, 1400 Hz, 1450 Hz and 2100 Hz (requires newest CPS release for support of those) - Improved behaviour of 'Zone Switch' P-key	2022-10-28
B49C.D64.EHRNAB.005 (B) 2022-10-28		
B49E.D64.EHRSAB.005	This has been the initial release	2022-06-30

Notes: Details on how to update the firmware of your Radioddity GD-88 are found in our extended manual.

Details you should know

An updated version of our extended manual will be published as soon as the planned firmware update for the DB25-D has also been released. Therefore, we have included certain aspects within this release notes.

White screen after firmware update

It might happen, that your radio - after applying the firmware update - does show a white screen when turned on instead of the normal startup logo. Don't worry, this is due to the fact that we do have slightly different hardware revisions out in the field that are covered by the very same firmware. In order to get rid of the white screen after updating, please proceed as follows:

1. turn off the radio
2. press the green button and keep it depressed
3. turn on the radio and wait about 2 seconds for the startup logo to be displayed

This is a one time procedure. As soon as the startup logo is displayed as expected, you are done and it will not be required when again turning on the radio.

Notes: This procedure is only required for radios showing a white screen after the firmware update. **Do not try out the procedure if your radio is not affected.**

Single VFO

After updating the radio, you will notice that the display only shows a single VFO. That's one of the additional features you get for free with this firmware update. Even longer Talker Alias data will be displayed Using single display mode.

To turn Single VFO on/off: MENU → Local Set → DisplayMode → Single Mode

Notes: Active Single Mode will disable switching between VFO-A and VFO-B.

DTMF for analog ☺

In analog mode the radio now allows to transmit so called DTMF-codes. Valid DTMF-codes are 0...9,*,# and A...D. Those DTMF-codes are generated by transmitting two different audio frequencies at the very same time Those audio frequencies are defined by the column and the row of the DTMF code to be transmitted.

frequency	1209 Hz	1336 Hz	1477 Hz	941 Hz
697 Hz	1	2	3	A
770 Hz	4	5	6	B
852 Hz	7	8	9	C
941 Hz	*	0	#	D

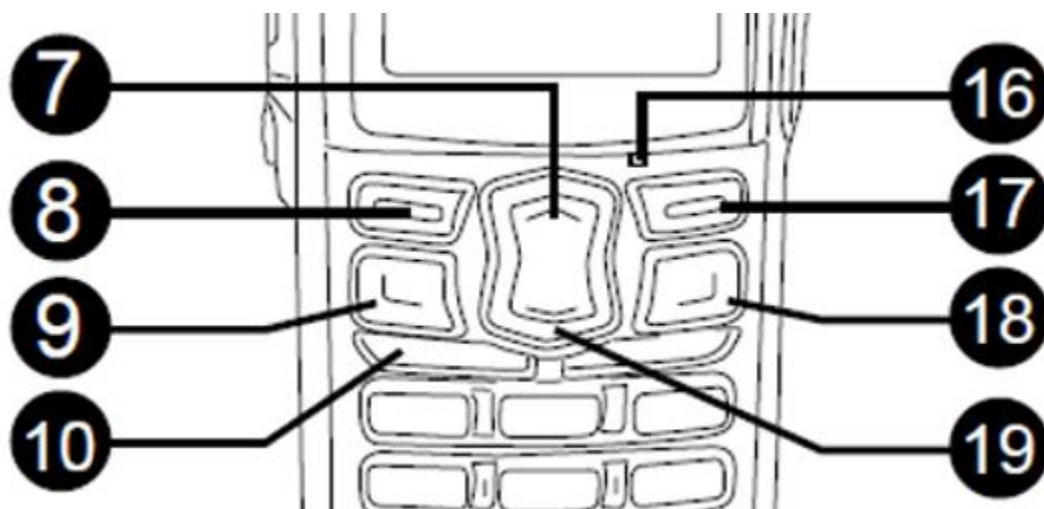
As two audio tones are transmitted at the very same time this technique is called **DualToneMultiFrequency** (abbreviated as DTMF) encoding.

In order to activate DTMF encoding, long press '1' on the numerical keypad. From now on all keys of the the numerical keypad, the rocker switch as well as P1 and P2 will trigger the generation of their corresponding DTMF codes. Active DTMF-mode is indicated by the DTMF-icon in the upper right area of the VFO that's been selected for PTT. To deactivate DTMF encoding, long press '1' on the numerical keypad or wait for about 5 seconds until the icon is no longer visible.



The assignment of the keys is as follows:

DTMF-code	GD-88 key
0...9	0...9
*	*
#	#
A	P2
B	P1
C	Rocker key UP (7)
D	Rocker key DOWN (19)



Notes: Whenever DTMF-mode is active on a Radioddity GD-88, the programmable keys P1 and P2 are not available.