

Russian → English



Technical portal of Russian radio arr

Имя

Пароль

Entrance

Help

Registration

CQHAM.RU



Мини-лаборатория
радиолюбителя OSA10

Forum

Diaries

What's new?

Photo Gallery

Reviews

Messages for the day

Reference

Calendar

Community

Forum Options

Navigation

Advanced Search



Forum

TECHNICAL FORUMS ON CQHAM.RU

Modification of radio stations

Quansheng uv-k5 on the range 23cm 1297 MHz

If this is your first visit, check out the forum help. You must be registered to post messages. To view messages, select a forum.

Page 6 of 6

First

...

3

4

5

6

Showing 51 to 57 of 57

Subject: Quansheng uv-k5 on the range 23cm 1297 MHz

Share...

Theme Options

Search by topic

12.05.2025, 14:53

#51

LZ3HD 

Registration :
13.04.2015
Messages : 20

Hello,

Since the first QUANSHENG was redesigned, a lot of solder has been melted and we took the next step, made a repeater. Filters and amplifiers (LNA and PA) were made and configured by Khristian - LZ5HP, the software for the control board was written by Vladimir - LZ1ZB.

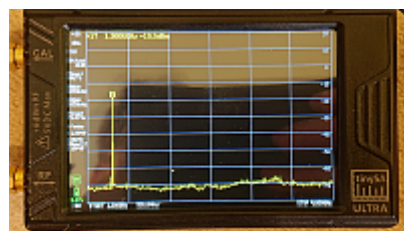
The first launch showed that the QUANSHENG lacks dynamic range and we had to put a two-link filter between the duplex filter and the external LNA first and then replace it with a three-link bandpass filter to make everything work. Now we have an output power of about 12W, sensitivity -122dbm (0.17uV).

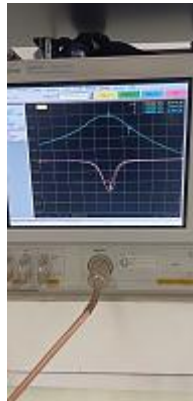
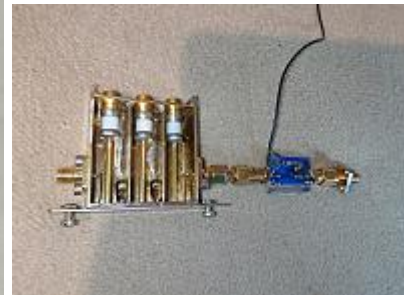
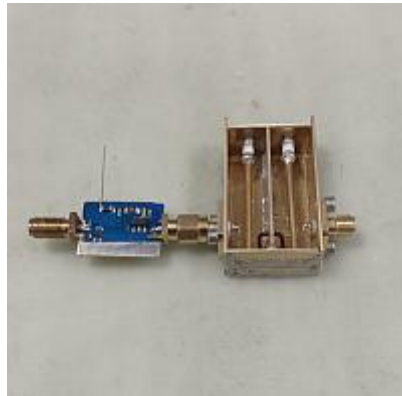
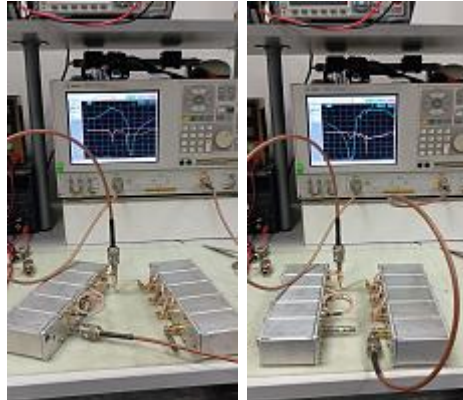
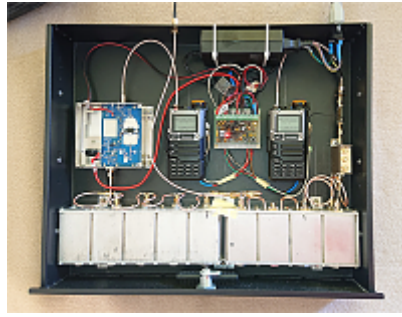
Measurements were made with TinySA Ultra and two attenuators of 30db

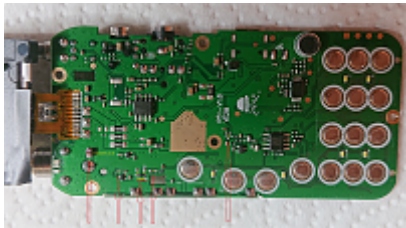
QUANSHENG UV K5/K6 23cm 1297 MHz Repe



With harmonics, we have everything according to Feng Shui: Repeater: Filters (+LNA): Amplifier: P.S. By reworking QUANSHENG, you can improve sensitivity to -124dbm and increase power to (I will not say how much, since it depends on the part, printed circuit board and moon phase), but it is worth doing: (Changes are marked in red) download: https://disk.yandex.ru/i/sBwYRXI5F_P_SQ download: <https://disk.yandex.ru/i/FLBCueQgTu6U3w>







Last edited by LZ3HD; 05/12/2025 at 03:17 PM .

Thanks from [Laimerus](#) , [RA4FHE](#) , [Serg](#) , [XENOMORPH](#) , [Nikolov](#)

12.05.2025, 16:21

#52

LZ3HD ◉

Registration :
13.04.2015
Messages : 20

Do not judge strictly by the quality of manufacture, the repeater was assembled as an experimental one from defective and test boards and parts. The duplex filter is a former bandpass filter from NMT-450.

13.05.2025, 09:29

#53

er1ak ◉



Registration :
22.08.2006
Address : KN47MA
Messages : 505
Call sign : ER1AK

LZ3HD Thank you for the setup and the video is very useful, where can I order an amplifier board from you for 23 cm, 73!

73! Vladimir.

13.05.2025, 12:42

#54

LZ3HD

Registration :
13.04.2015
Messages : 20

Sent you a private message.


Thanks from [er1ak](#)

13.05.2025, 15:59


#55

DL8RCB

Moderator



Registration :
13.08.2007
Address : 94157
Perlesreut
Messages : 17,169
Call sign : DL8RCB,
ex UW9EZ



Message from **LZ3HD**

made a repeater

Good afternoon, a question for you: "is it already in progress?"

13.05.2025, 18:48

#56

LZ3HD

Registration :
13.04.2015
Messages : 20

At the moment, at my house, on the 9th floor, several people are actively testing it. All that's left is to attach a fan to it to cool the power amplifier, although it doesn't really need it. We'll make an 'all-weather-proof' antenna and there are plans to put it on the roof of a 22-story building.

13.05.2025, 22:30

#57

Message from **LZ3HD**

there are plans

Got it, thanks!
73

DL8RCB ◉

Moderator



Registration :
13.08.2007
Address : 94157
Perlesreut
Messages : 17,169
Call sign : DL8RCB,
ex UW9EZ



Page 6 of 6 ◀◀ First ◀ ... 3 4 5 **6**

Quick Jump

Modifying Radio Stations

Up

◀ Previous Topic | Next Topic ▶

Information about the topic

This topic is viewed by: 3 (users: 0, guests: 3)

Similar topics

[Quansheng TG-UV2+](#)

from R1AIT in the section Transceivers, receivers HF/VHF

Answers: 14

Last post: 24.11.2022, 14:38

[Tell me software for QUANSHENG TG-K4AT](#)

from UN7FEI in the section Transceivers, receivers HF/VHF

Answers: 11

Last post: 08.03.2022, 18:26

[Deaf Quansheng TG-K4AT?](#)

by LZ3DA in the Technical Office section

Answers: 10

Last post: 03.07.2020, 15:17

[QUANSHENG TG-UV](#)

by uy2ub in the section Modification of radio stations

Answers: 22

Last post: 21.12.2018, 21:29

[Baofeng UV-5R, WOUXUN KG-UV6D or Quansheng TG-UV2](#)

by Rulya in the section Technical office

Answers: 164

Last post: 12/14/2017, 07:51 PM

Your rights



You cannot create new topics.

You cannot reply to topics.

You cannot attach attachments.

You cannot edit your messages.

BB codes On

Smileys On

[IMG] code On.

[VIDEO] code

On

HTML code Off

Forum Rules

-- Russian (RU) ▾

[Feedback](#) [CQHAM.RU](#) [Archive](#) [Up](#)

Current time: 20:20 . Time zone GMT +3.

Powered by [vBulletin®](#) Version 4.1.12

Copyright © 2025 vBulletin Solutions, Inc. All rights reserved.

Translation: [zCarot](#)

Forum Modifications By [Marco Mamdouh](#)