

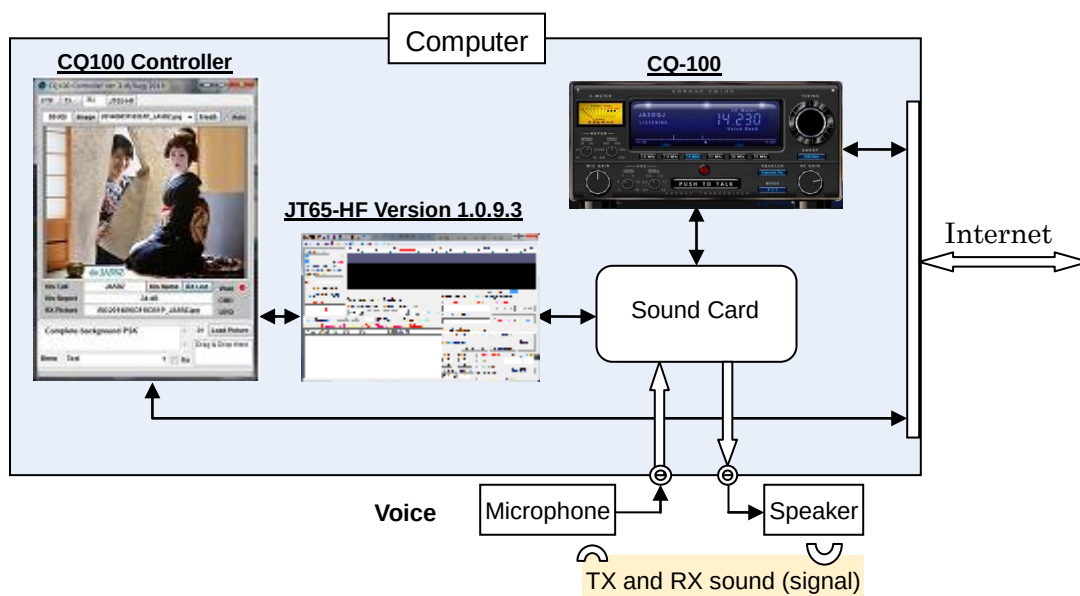
My experience of the picture exchange with JT65 mode

By Shu JA3GQJ

If I use the CQ100 Controller and the JT65-HF version 1.0.9.3 at CQ-100 then I can exchange the picture over the internet as I do with the EasyPal or PSK_HTML at the HamsPhere. I know the EasyPal doesn't work at the CQ-100. Hereinafter, I complete my experience.

How to work it over internet

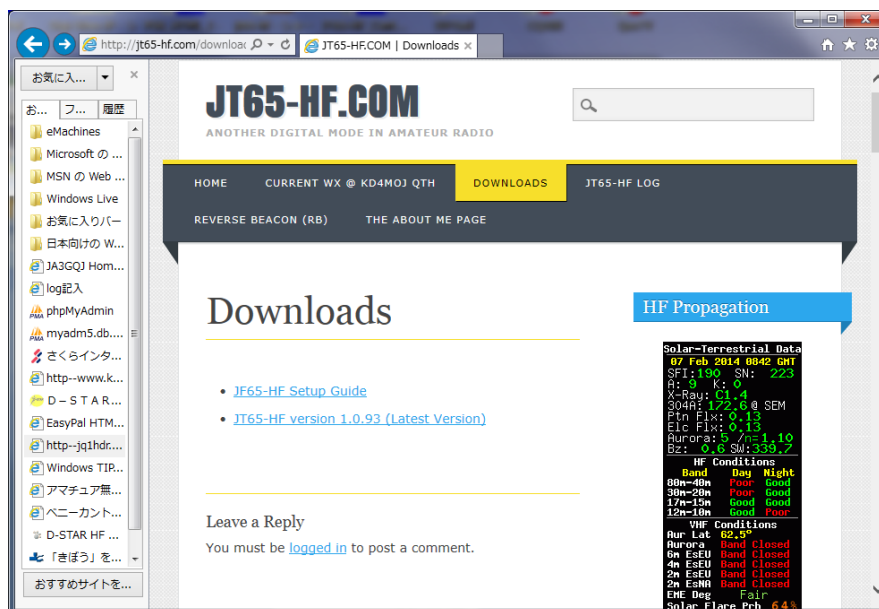
The CQ100 Controller is the special software which works at the internet and managing the image (picture) for the JT65 mode. My understanding about CQ100 Controller and JT65-HF version 1.0.9.3 is as schematic diagram as follows. The "CQ100 Controller", "JT65-HF version 1.0.9.3" and "CQ-100" are used. And I am managing both of signals the voice and JT65 with microphone and speaker between the software. Both of the voice and image signal can be sent at same time. When both of the image and voice signal is received, the microphone collects sound (signal) from the speaker. If the image and voice signal is sent, the microphone collects voice not only but also the image sound (signal) from the speaker. This is meaning that both of the voice and image signal can be sent at same time.



1. JT65-HF version 1.0.9.3 Download and setup

When I visited <http://jt65-hf.com/downloads/>, I could get the software and setup guide.

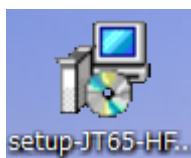
The program is very easy to use for me but the JT65-HF Controller.



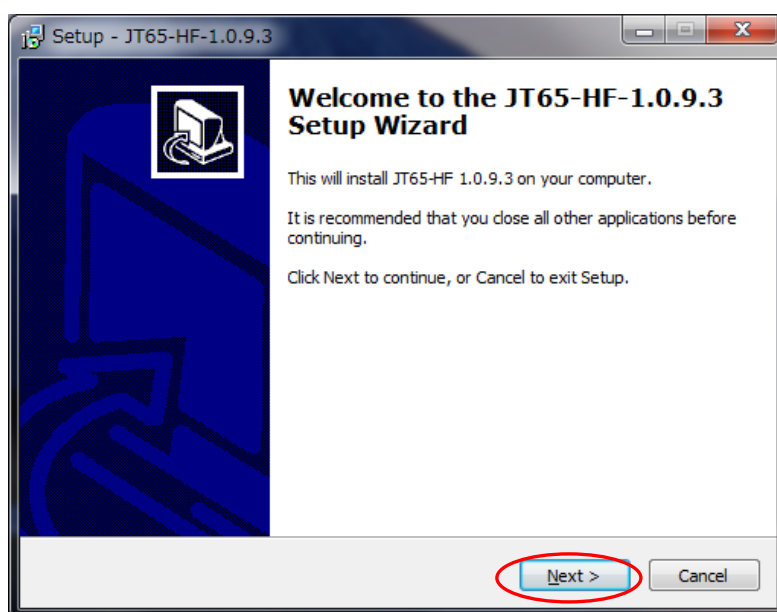
2. JT65-HF version 1.0.9.3 installation

After download, I installed the JT65-HF version 1.0.9.3 with following orders here in after.

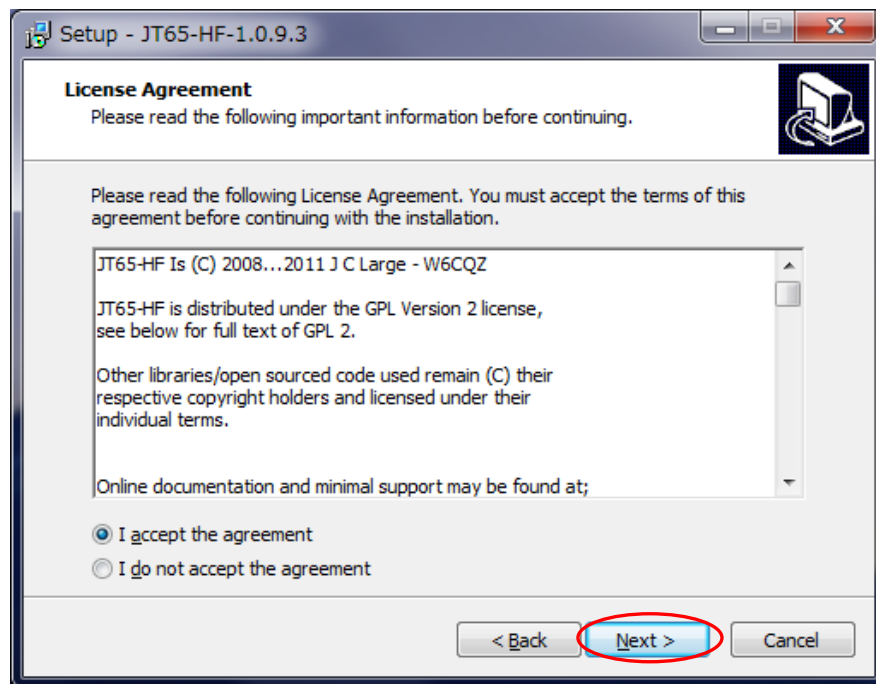
2-1 I clicked setup icon at desktop of my PC.



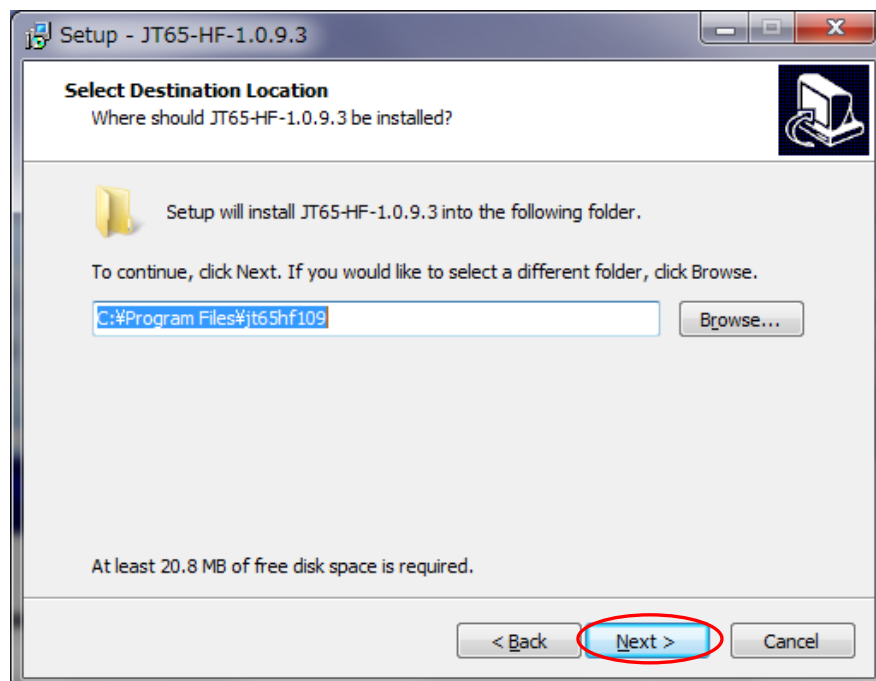
2-2 Then, Welcome Setup Wizard screen as like as following figure pop up and I click the "Next" button.



2-3 Then, Setup Wizard screen Changed to License Agreement screen as like as following figure and I click the “Next” button after I accept the agreement.

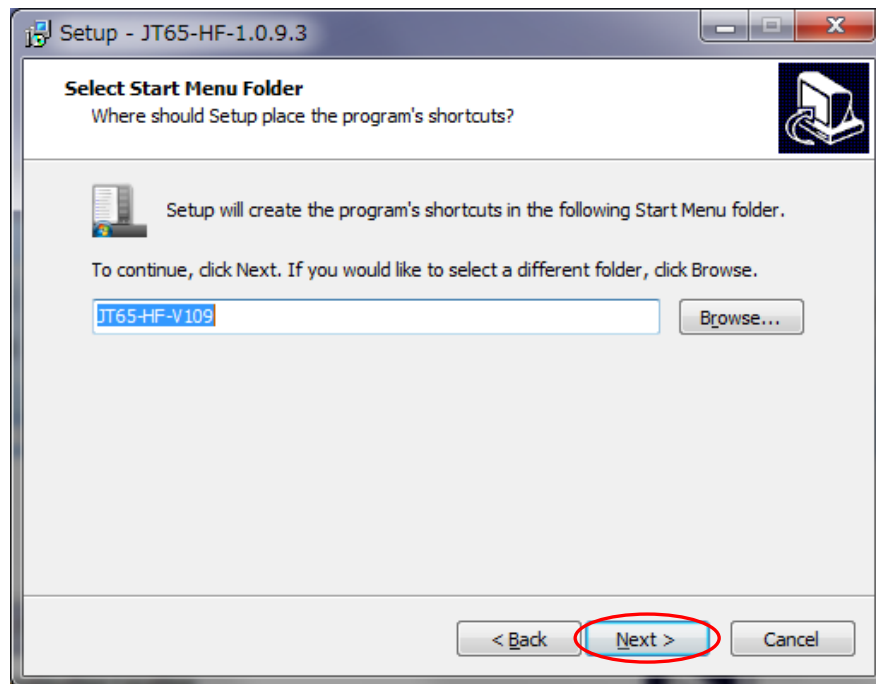


2-4 Then, License Agreement screen changed to Select Destination Location screen as like as following figure and I clicked “Next” button.

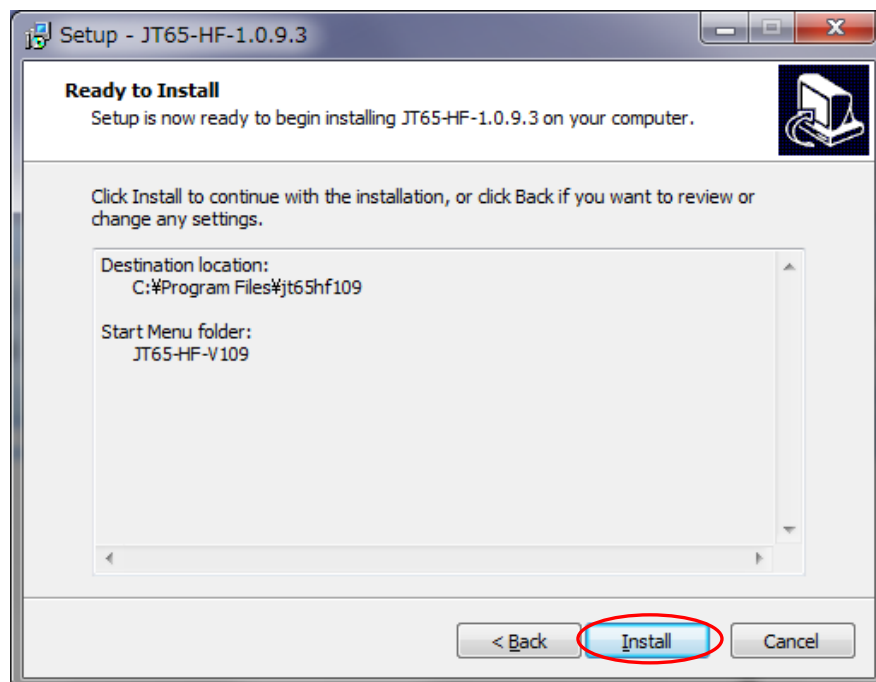


2-5) Then, Select Destination Location screen changed to Select Start Menu Folder screen

as like as following figure and I clicked “Next” button.



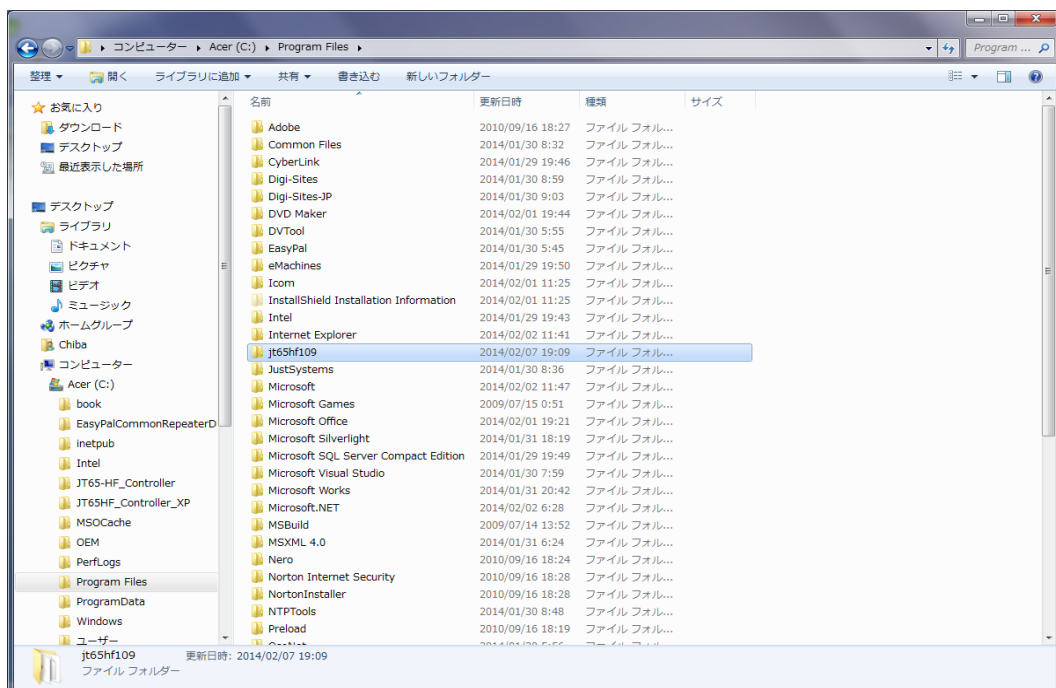
2-6) Then, Select Start Menu Folder screen changed to Read to Install screen as like as following figure and I clicked “Next” button.



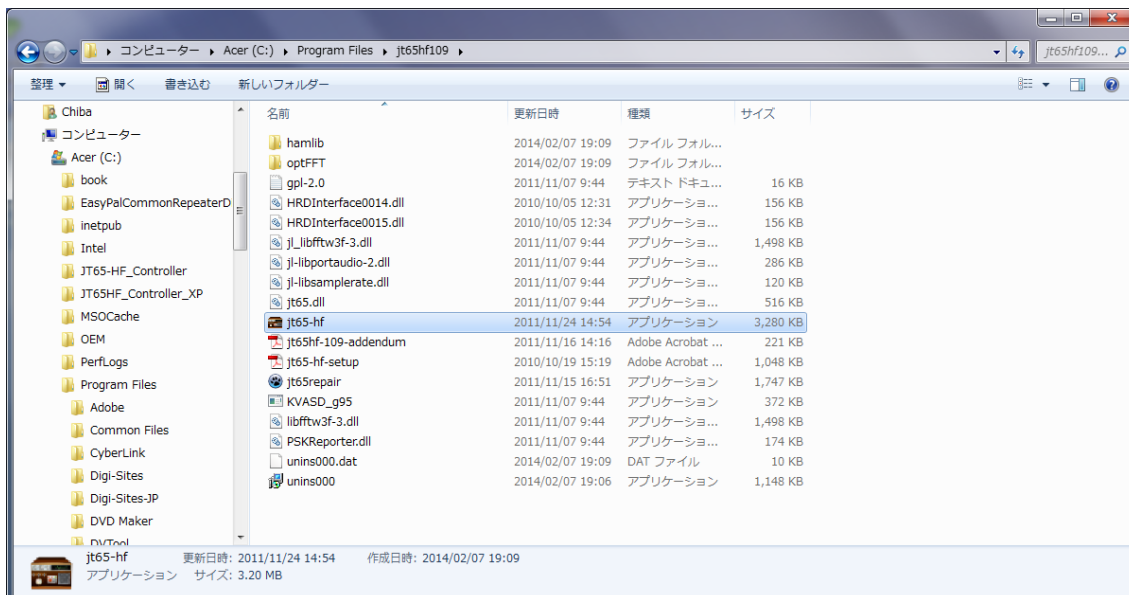
2-7 Then, Read to Install screen changed to Completing Setup Wizard screen as like as following figure and I clicked the “Finish” button.



2-8 Then, I find the folder named “jt65hf109” at Program Files in the C drive route directory.



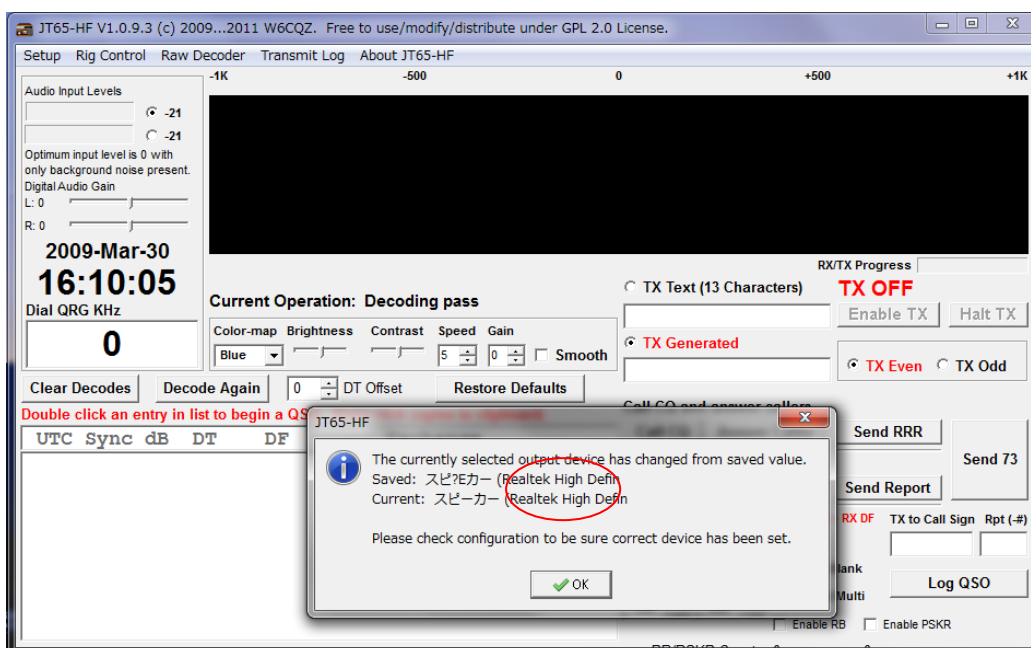
2-9 Then, I open the folder, and I made the shortcut icon of the JT65-HF at desk top of my PC.



Now, installation of the JT65-HF is completed.

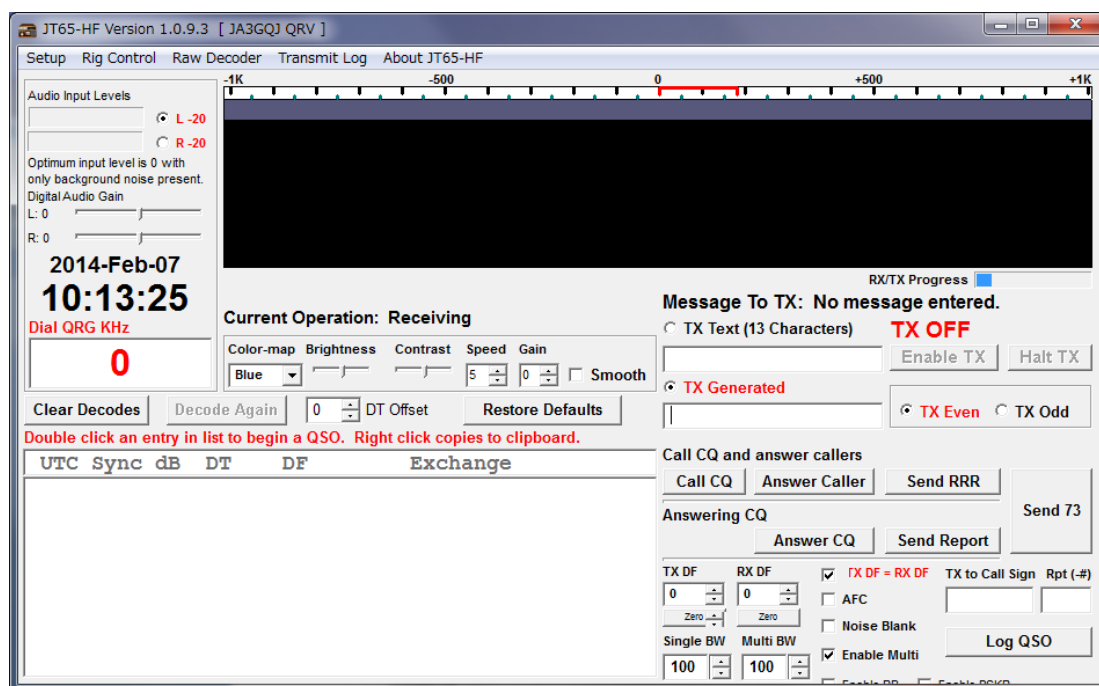
3. Configuration (Preparation)

3-1 I click the shortcut icon of the JT65-HF at desktop of my PC, then the screen as like as following figure pop up and I click “OK” button on the small screen.



3-2 Then, small screen disappear but large screen is still remaining at desktop.

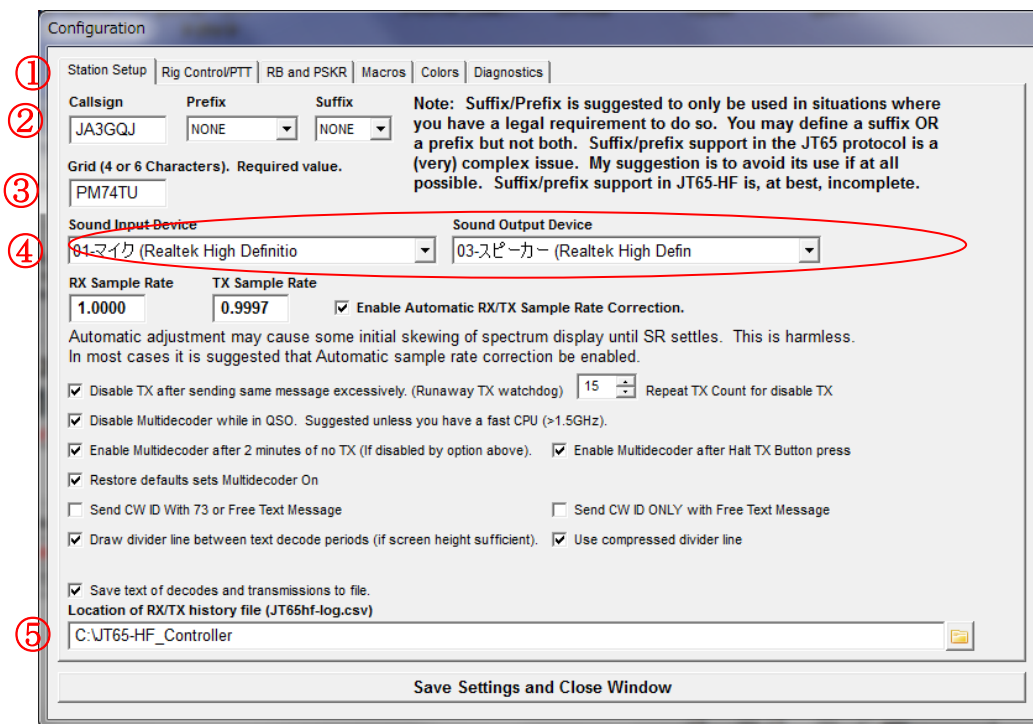
And I select the “Setup” tag. I can use the program without selection of “Rig Control” tag, “Raw Decoder” tag and “Transmit Log” tag at this screen. Only “Setup” tag is necessary to use of the program for me.



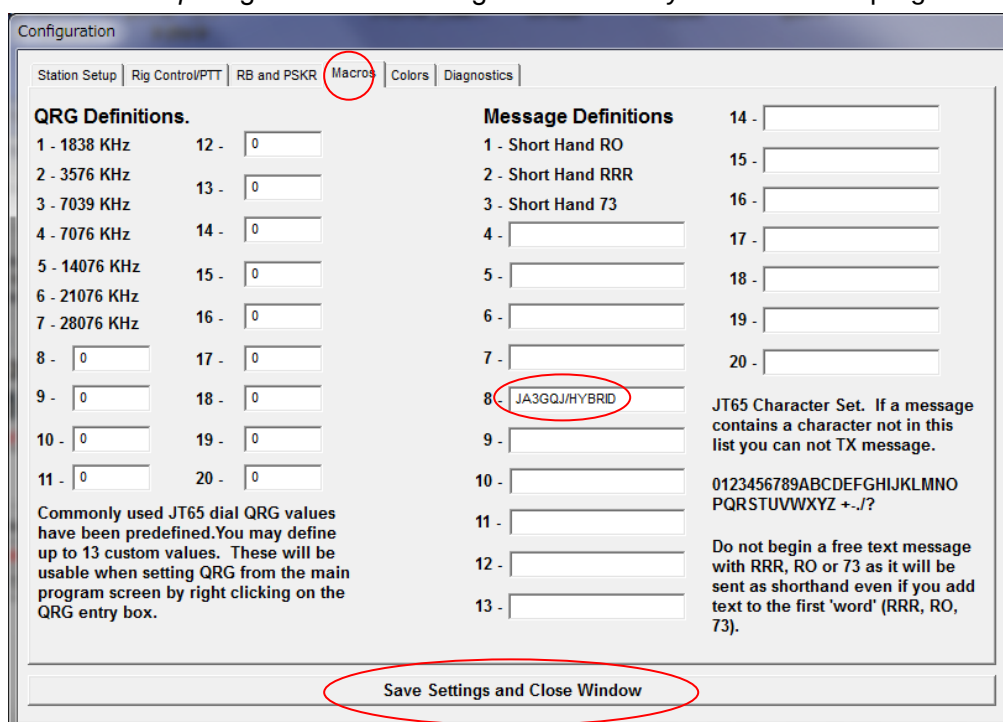
3-3 Then, the “Configuration” screen as like as the following figure is pop up.

- ① Then, I select the “Station Setup” tag.
- ② Then, I put my call sign in the white box at Callsign.
- ③ Then, I put my grid locator in the white box at Grid (4 or 6 Characters).
- ④ Then, I select my sound input and output devices.
- ⑤ Then, I put the directory “C:\JT65_Controller” in the box at “Location of RX/TX history file (JT65hf-log.csv)”.

I don't touch other than above items at this screen

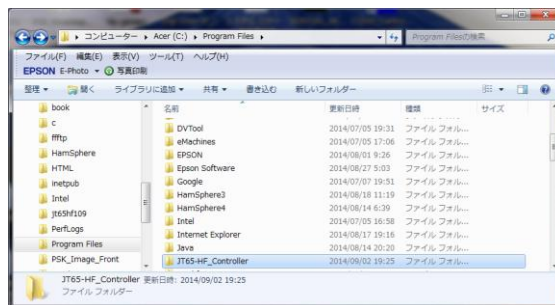


Then, I select the “*Macros*” tag, and I put a text “*My Call Sign/HYBRID*” in the item 8 as like as the following figure. Then, I save configuration with click the “*Save Setting and Close Windows*” button. I can use the program without selection of “*Rig Control/PTT*” tag, “*RB and PSKR*” tag, “*Colors*” tag and “*Diagnostics*” tag at this configuration screen. Only “*Station Setup*” tag and “*Macros*” tag are necessary to use of the program for me.



4. CQ100 Controller, download and installation

4-1 I prepared the folder named JT65-HF_Controller under root directory at C drive as follows.



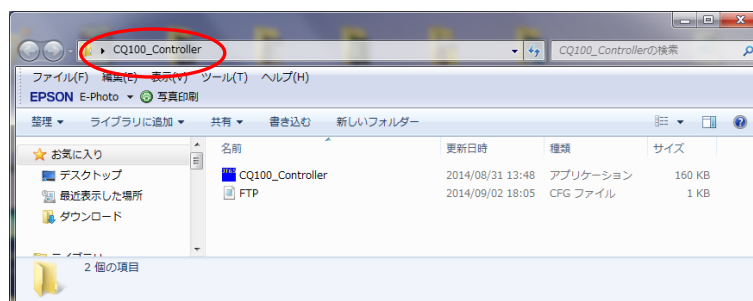
4-2 Then I downloaded the CQ100 Controller.zip file from following URL to the desktop.

<http://jq1hdr.dip.jp/>

4-3 Then, I extracted the CQ100 Controller.zip file with Lhasa, and the folder named CQ100 Controller was generated on the desktop.



4-4 Then I opened the folder and copied two (2) of files.



Opened CQ100_Controller folder

4-5 Then, I pasted them on the JT65-HF_Controller folder.



Opened folder, JT65-HF_Controller

4-6 Then, I made the short cut icon of the CQ100 Controller.exe as follows on the desktop.



Now, installation of the CQ100 Controller is completed.

5. FTP Configuration

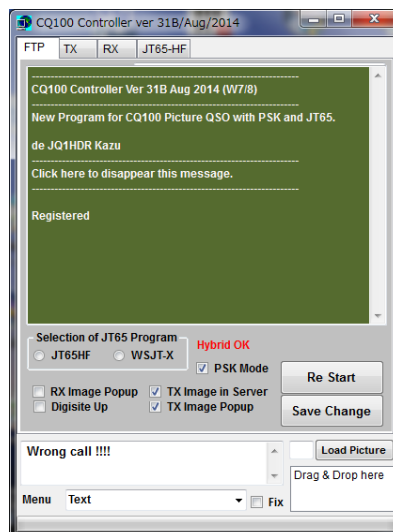
5-1 After I clicked the shortcut icon, the requirement screen for the call-sign and

password was pop up as follows.

Then I asked my password with my call-sign to Kazu JQ1HDR.

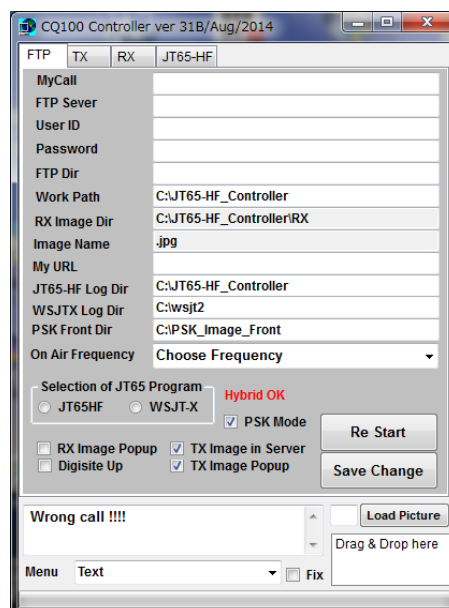


5-2 I clicked the “Start” button after put the call-sign and password, then I had the screen as follows.



Configuration for the qsl.net server

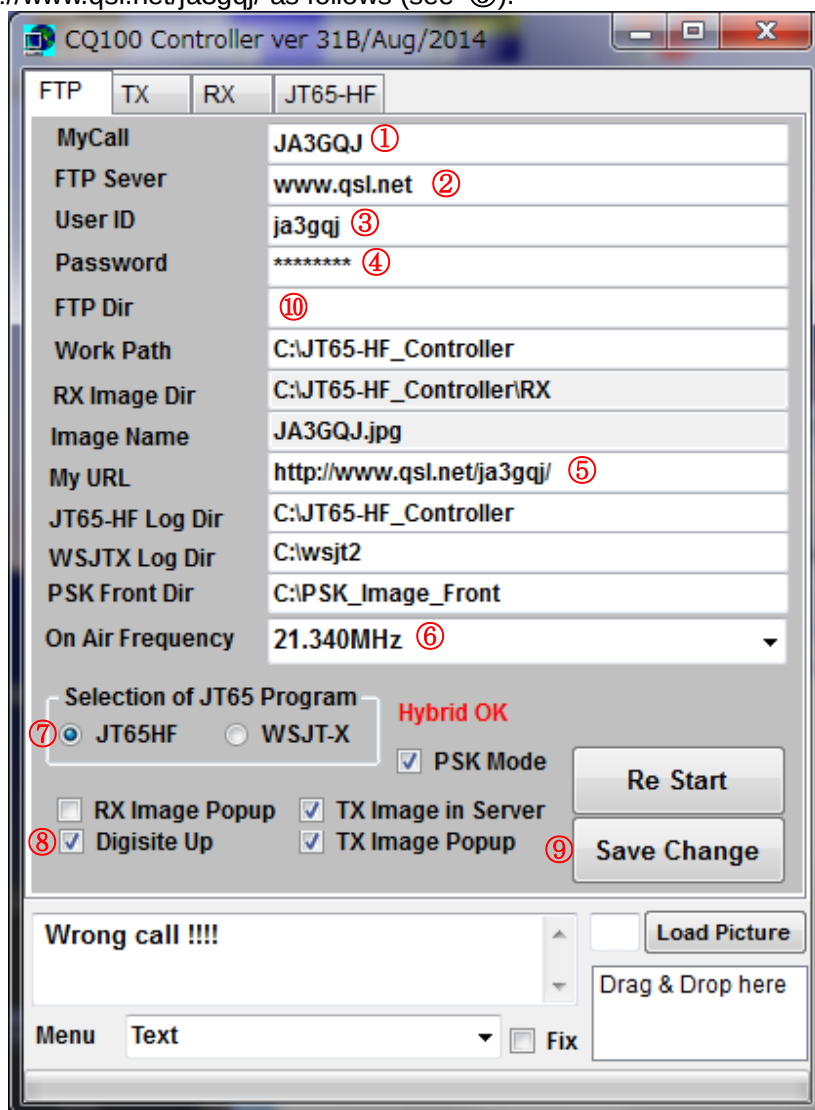
5-3 Then, I clicked the green screen and I had the another screen as follows.



5-4 Then, I input ①MyCall, ②FTP Sever, ③User ID, ④Password, ⑤My URL. Then, I choose ⑦JT65HF and ⑧Digisite up.

And I had to choose the frequency as 21.340MHz at ⑥On Air Frequency with click “▼”. But I QRV with the CQ-100, I input the character of “CQ-100” in the “⑥On Air Frequency”.

I don't need input ⑩ “FTP Dir. My guess is that this is depend on the rental server. Then I saved this configuration with click the ⑨Save Change” button. When I input the “My URL”,I referred to the Digiste URL configuration of <http://www.qsl.net/ja3ggj/image1> My case, I don't need the character, “image1” at this configuration. And it was OK just with <http://www.qsl.net/ja3ggj/> as follows (see ⑤).



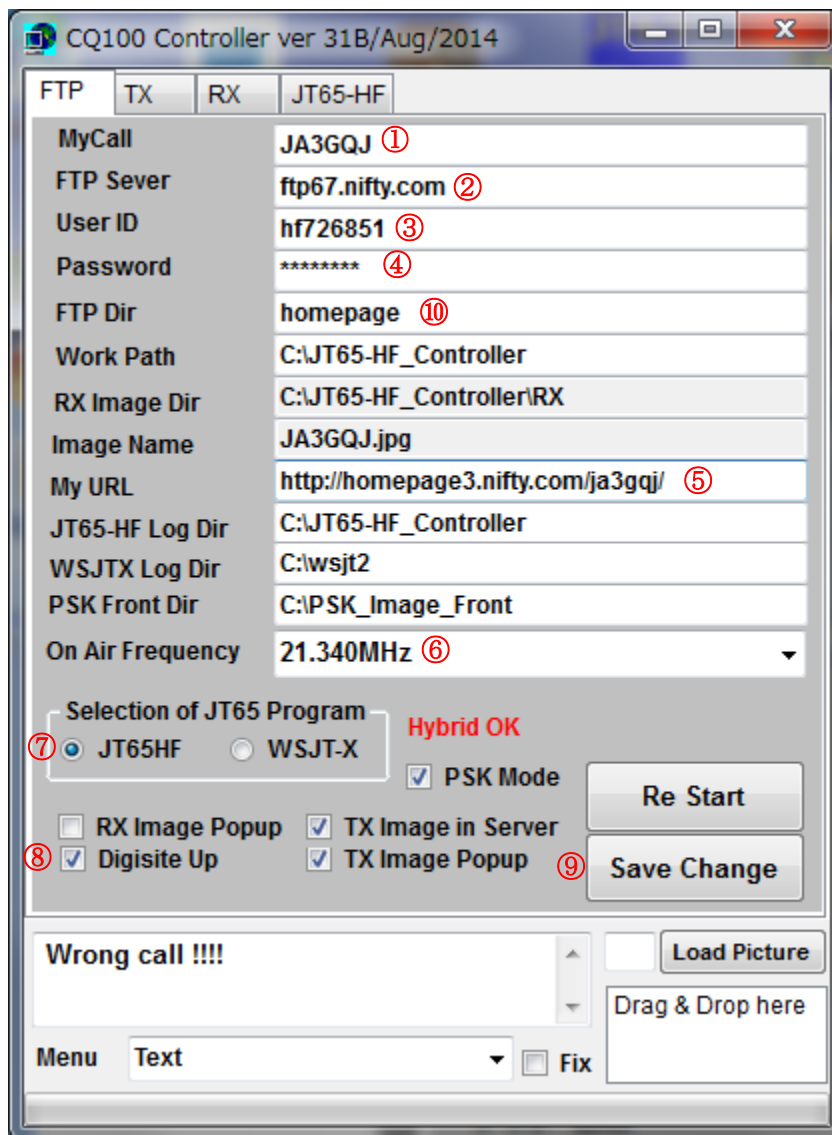
(a case of my rental server qsl.net)

Configuration for the nifty server

4-7 Then, I input ①MyCall, ②FTP Sever, ③User ID, ④Password, ⑤My URL and ⑩FTP Dir. Then, I choose ⑦JT65HF, ⑧Digisite up.

And I had to choose the frequency as 21.340MHz at ⑥On Air Frequency with click “▼”. But I QRV with the CQ-100, I input the character of “CQ-100” in the “⑥On Air Frequency”.

I input character of “homepage” in the ⑩ “FTP Dir” because my rental sever is the Nifty. Then I saved this configuration with click the ⑨ “Save Change” button.



(a case of my rental server nifty)

When I put the text in the “My URL”, I refer to the Digiste URL configuration of “<http://homepage3.nifty.com/ja3gqj/image1>”

My case, I put the text “<http://homepage3.nifty.com/ja3gqj/>” in the “My URL” as the ⑤ of the above figure.

Comom to my rental server, gsl.net and nifty

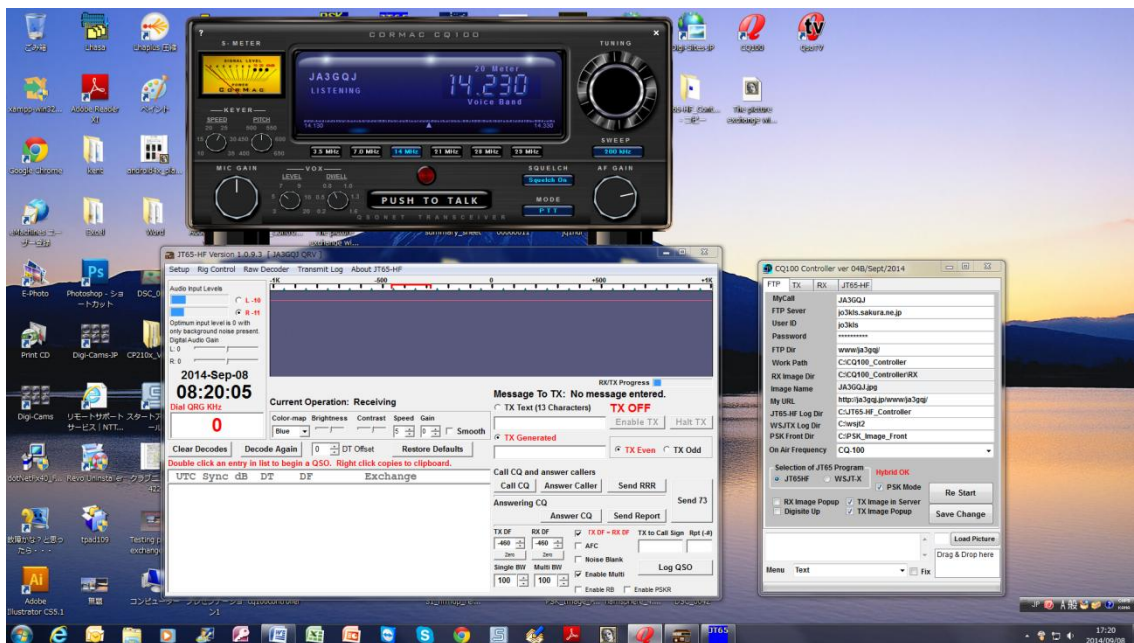
I have two (2) folders of PSK_Image_Front and JT65-HF Controller at root directory of “C” drive. So that I had to make double check “JT65-HF Log Dir” and “PSK Front Dir”. Further, I have to say that modification of the program for the security is done very frequently. So that I download the program often, and write over the old program by it. **Now I am ready to use the CQ100 Controller with PSK Image Controller. And I made my way for the receive pictures or send pictures.**

RX the pictures.

I have experience for the two ways of CQ-100 and HamSphere.

5-1) Use of CQ-100 over the Internet

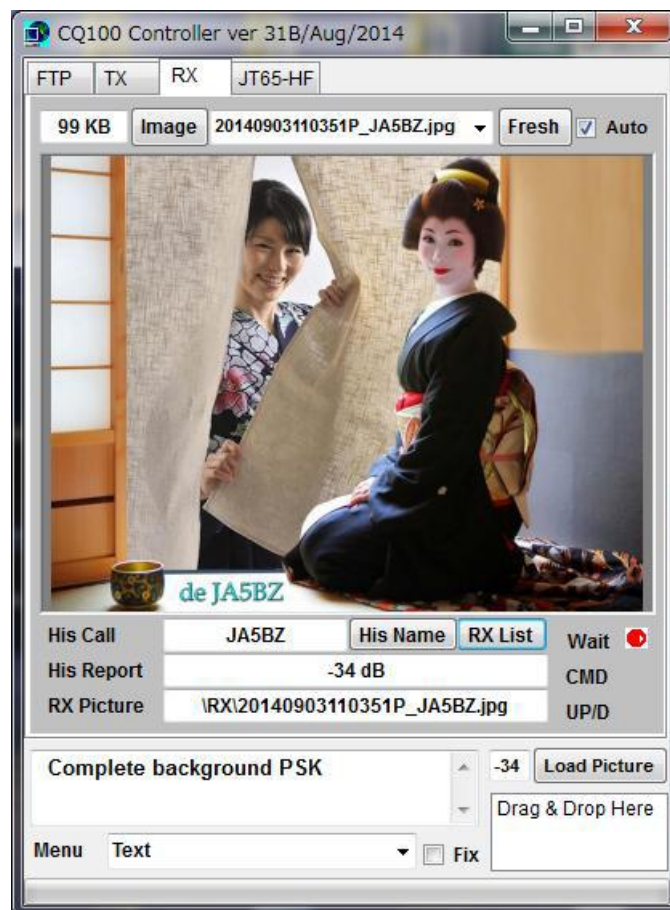
I just run the CQ-100 with the JT65-HF version 1.0.9.3 and CQ100 Controller when receiving picture. The microphone and speaker of the soundcard is used. I don't use the stereomix. So, I can't use the headset for this way why the sounds (signal) from speaker should be corrected with microphone which is connected to the PC. I just put the microphone in front of speaker of the PC.(showing the figure on page 25)



(PC desktop during running the JT65-HF and CQ100 Controller with the CQ-100)



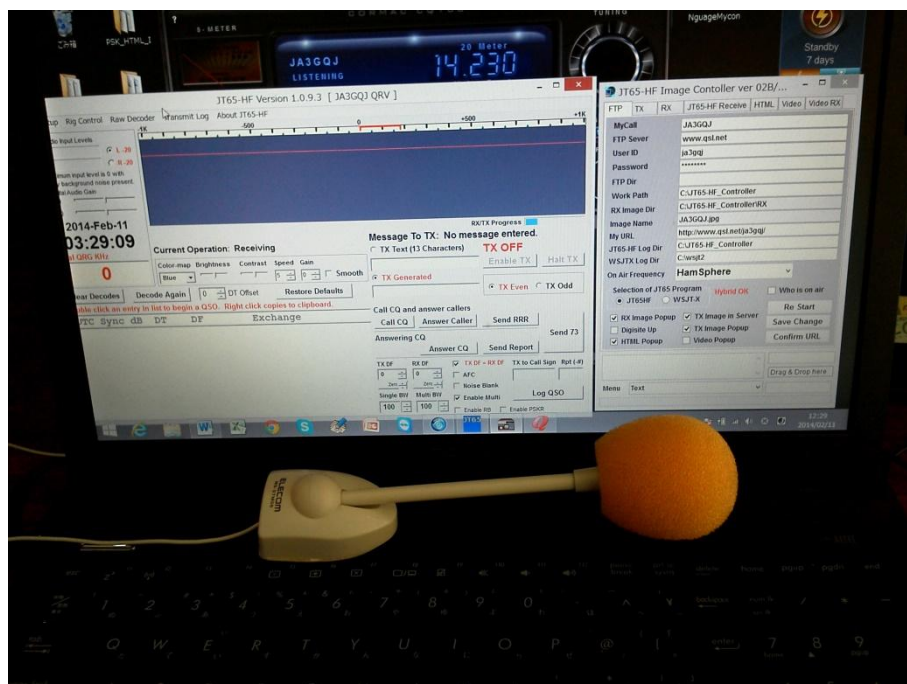
(PC desktop when received picture with CQ-100)



(Enlargement of the CQ100 Controller after picture received)

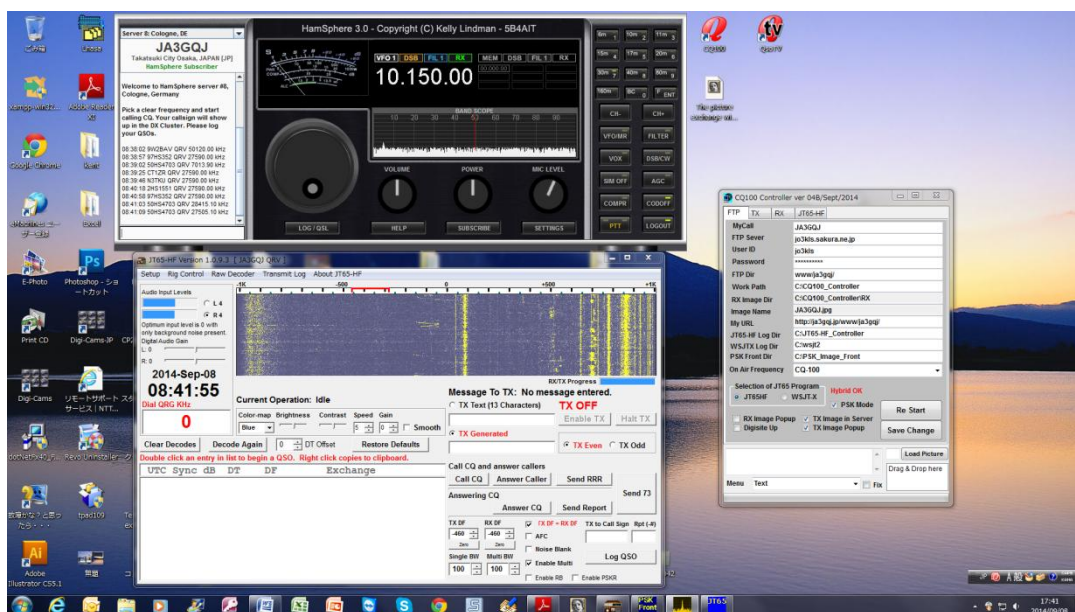


(The picture pop up by check mark at "RX image popup" of FTP tag)

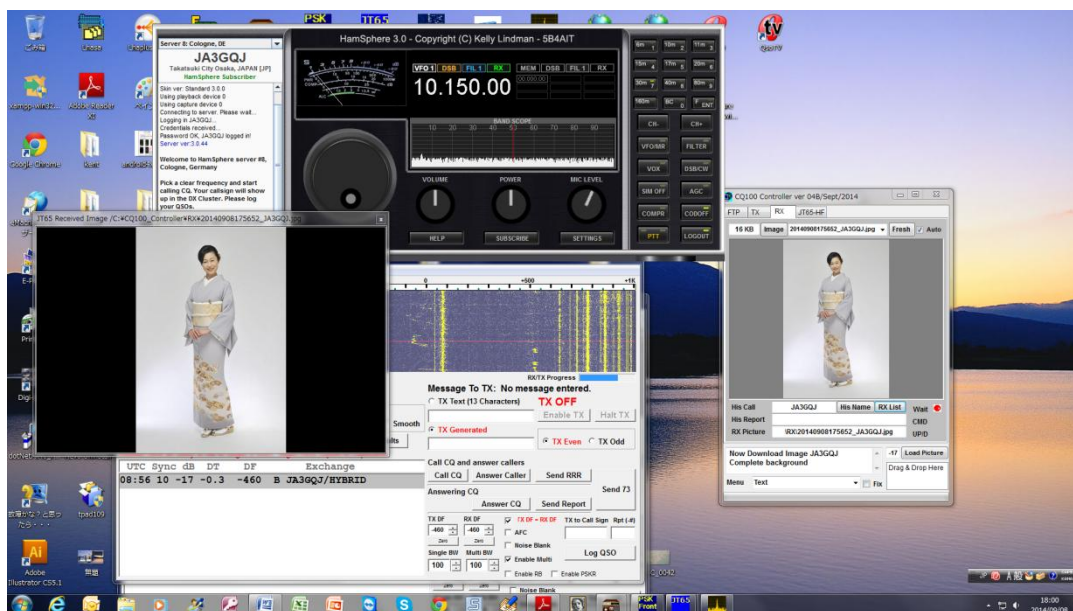


(The microphone in front of the notebook PC speaker)

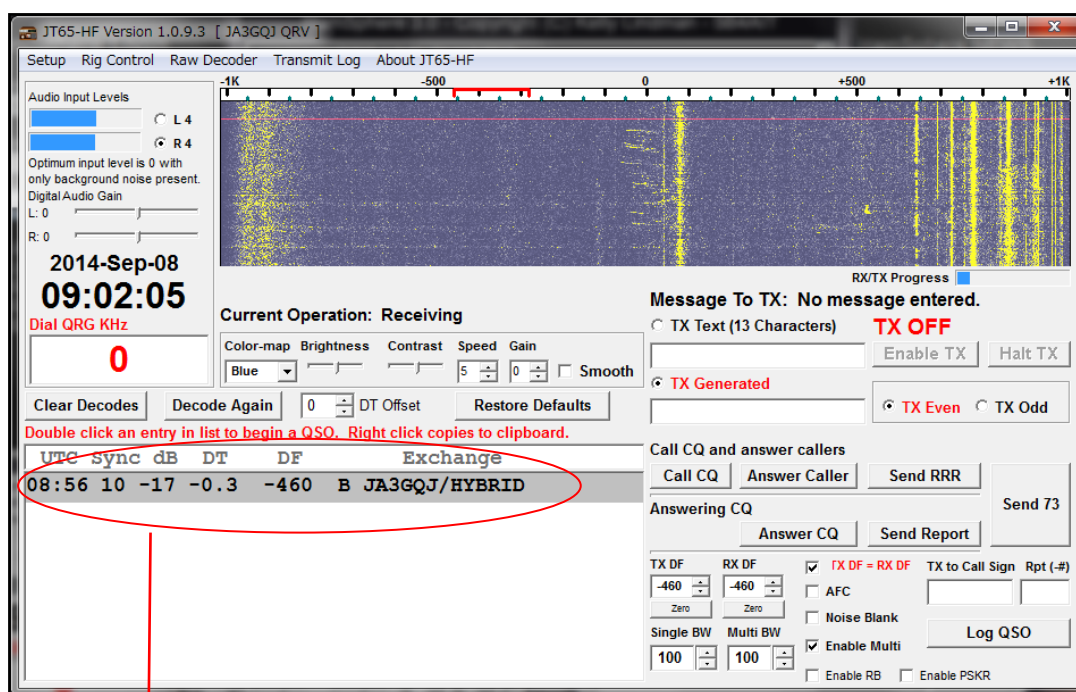
5-2) Use of HamSphere over the Internet



(PC desktop during running the JT65-HF and CQ100 Controller with the HamSpherer)



(PC desktop when received picture with HamSpherer)



(Circled text is shown when RX finish properly)

UTC	sync	dB	DT	DF	Exchange
08:56	10	-17	-0.3	-460	B JA3GQJ/HYBRID



(Enlargement of the CQ100 Controller after picture received)



(The picture pop up by check mark at "RX image popup" of FTP tag)

6. Sending the pictures.

When I send the picture, same processes is necessary to prepare the picture at the CQ controller for the CQ-100 and HamSphere. Here is one of my way for the CQ-100.

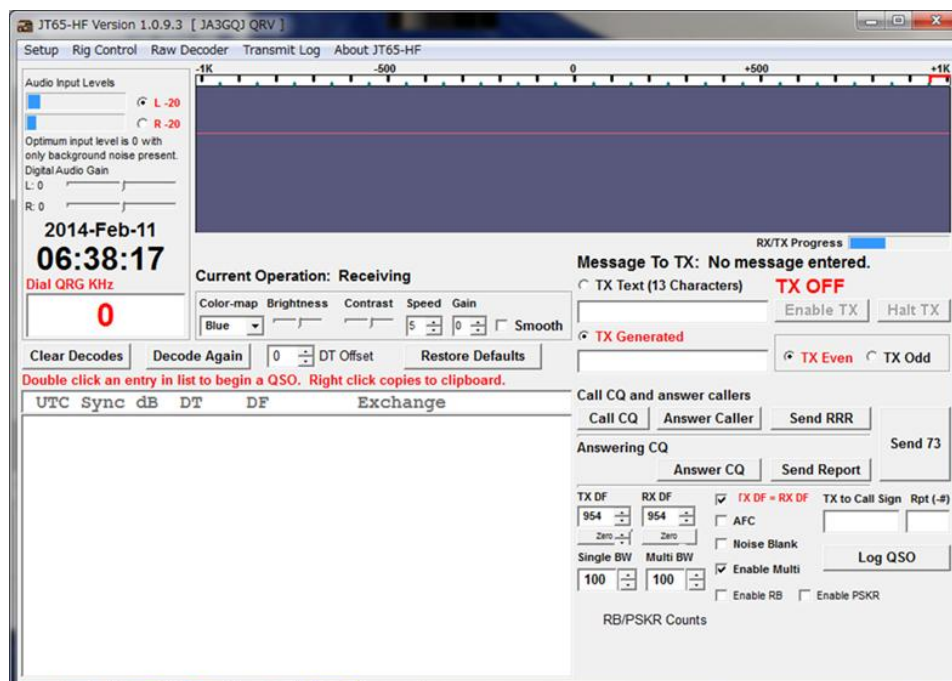
6-1Picture preparation

6-1 TX picture preparation

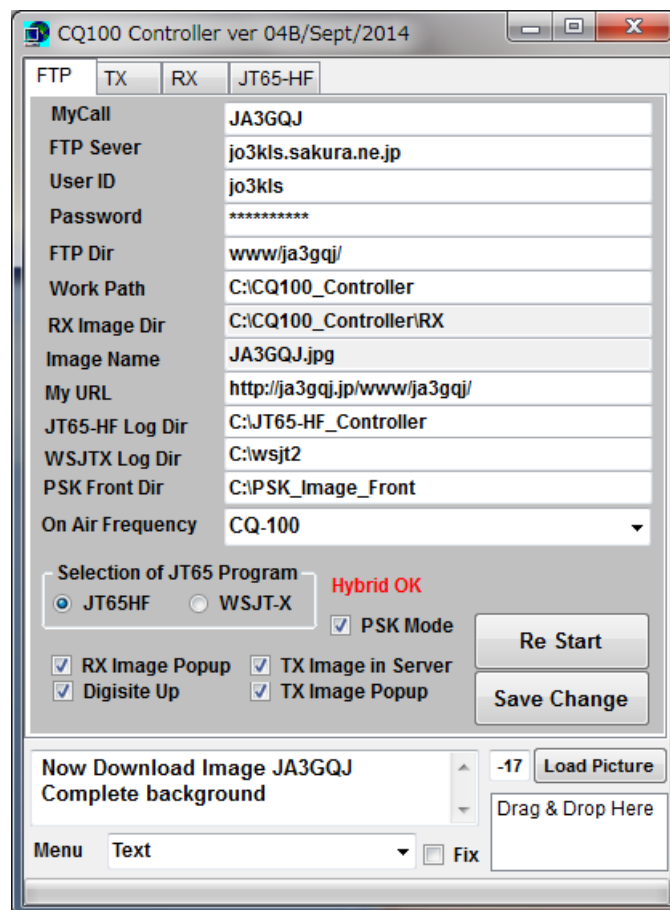
I have two (2) way to prepare the picture. One is the “Drag and Drop” and the other is use of “Load Picture” button



(Basic sand by screen with CQ-100)



(Enlargement screen of the JT65-HF)



(Enlargement screen of the CQ100 Controller)

①**Drag & Drop**) I open the folder which is including the jpeg picture and I drag the picture in the folder which I want to send.



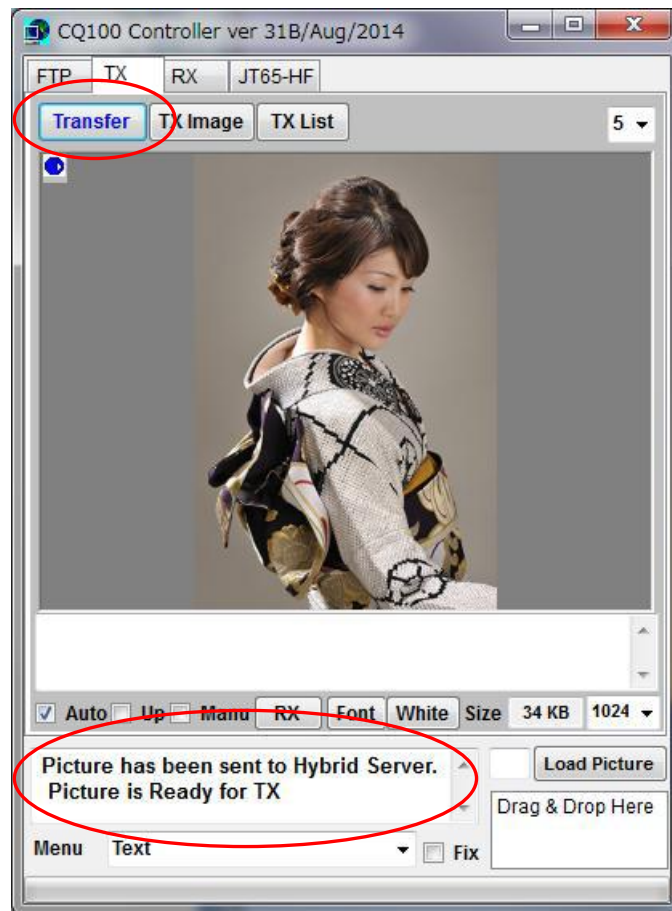
(Just after opened picture folder)

And I drop it to the “Drag & Drop here” (See above figure) of the CQ100 Controller screen. Then, the picture pop up and “FTP” tag changed to “TX” tag.



(Just after loaded picture at CQ100 Controller)

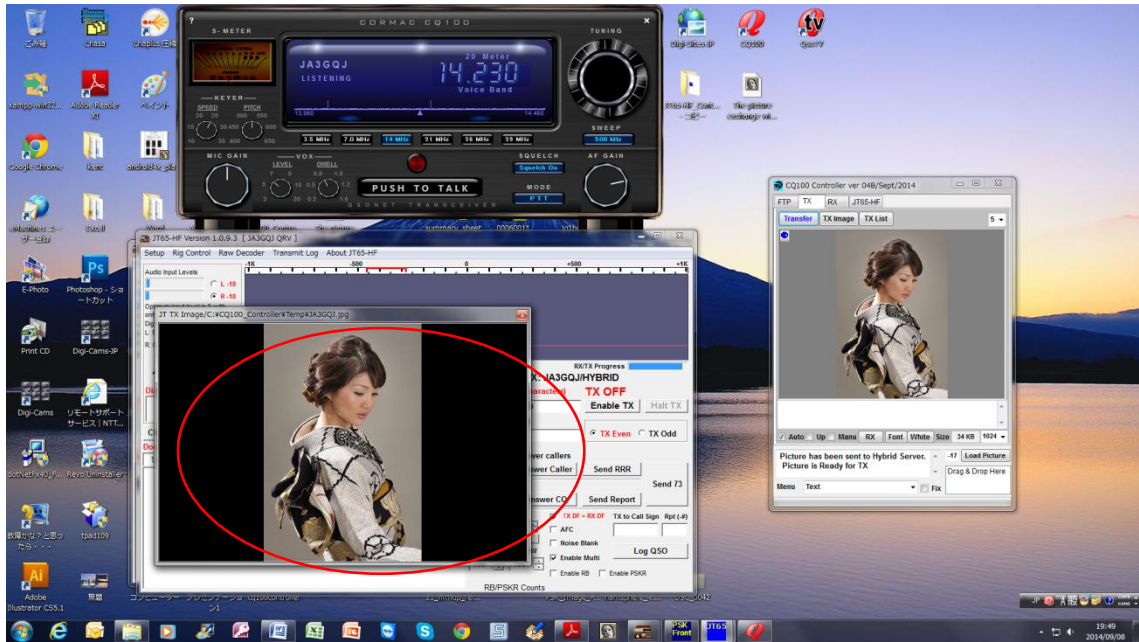
Then, the picture was uploaded to the Hybrid server after I clicked red color “Transfer” button. And red color text of “Transfer” button was changed to light-blue. The comments at the bottom of screen are “Picture has been sent to Hybrid Server” and “Picture is Ready for TX”.



(Ready to send the picture at CQ100 Controller)

② (Use of “**Load picture**” button) I opened the folder which is including the jpeg picture by click the “Load Picture” button (See the figure at top on page 11). And I double click the picture icon in the folder which I want to send.

Below, is the same as the “Drag & Drop”. When the TX picture preparation is completed, the desktop screen is as follows. Particularly, the popup TX picture screen by the check mark on the “TX Image Popup” of CQ100 Controller is on the desktop. (The check mark can be seen figure at top on page 12).



(The popup TX picture)



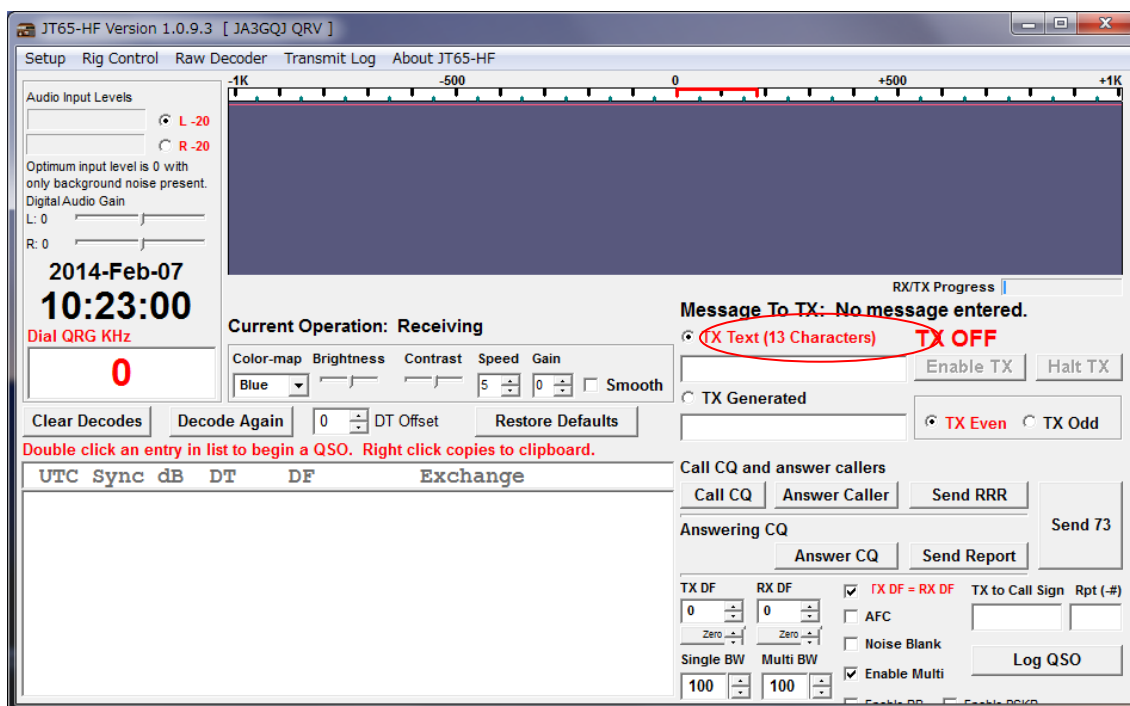
(The picture pop up by check mark at "TX image popup" of FTP tag)

Now, I am ready to send the picture with the PSK Image Controller and CQ100 Controller.

6-2Picture sending

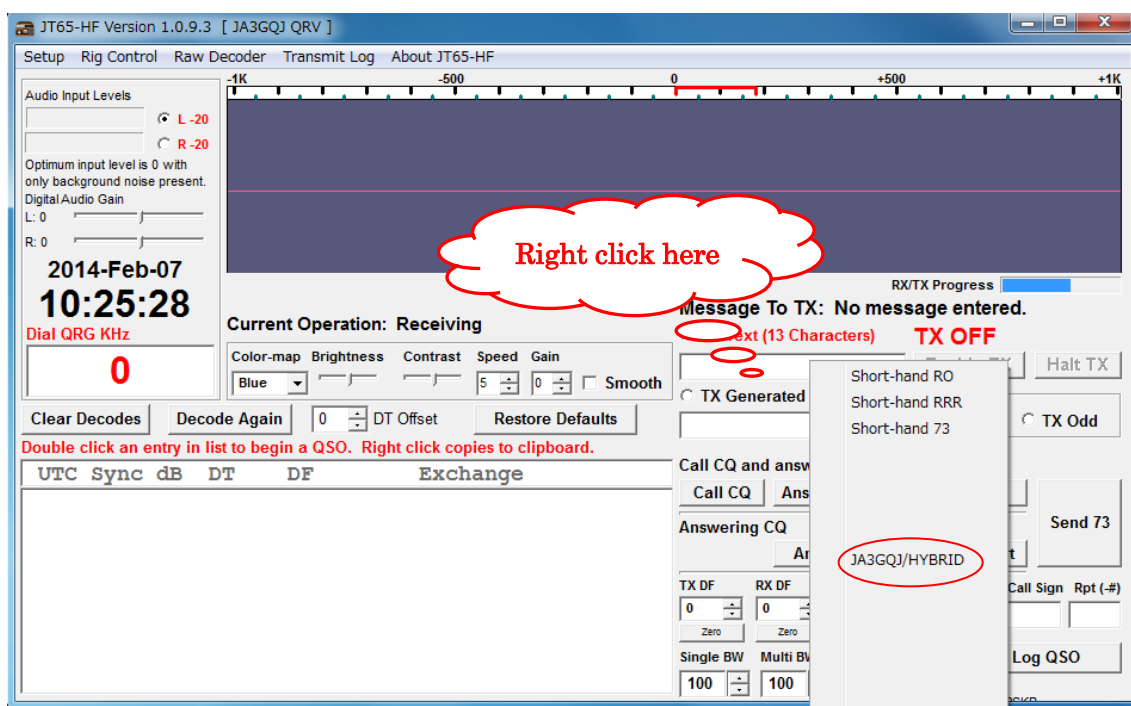
After put the picture into the JT65-HF Controller, I select "*TX Text (13 Characters)*" of the

JT65-HF as like as the following figure.



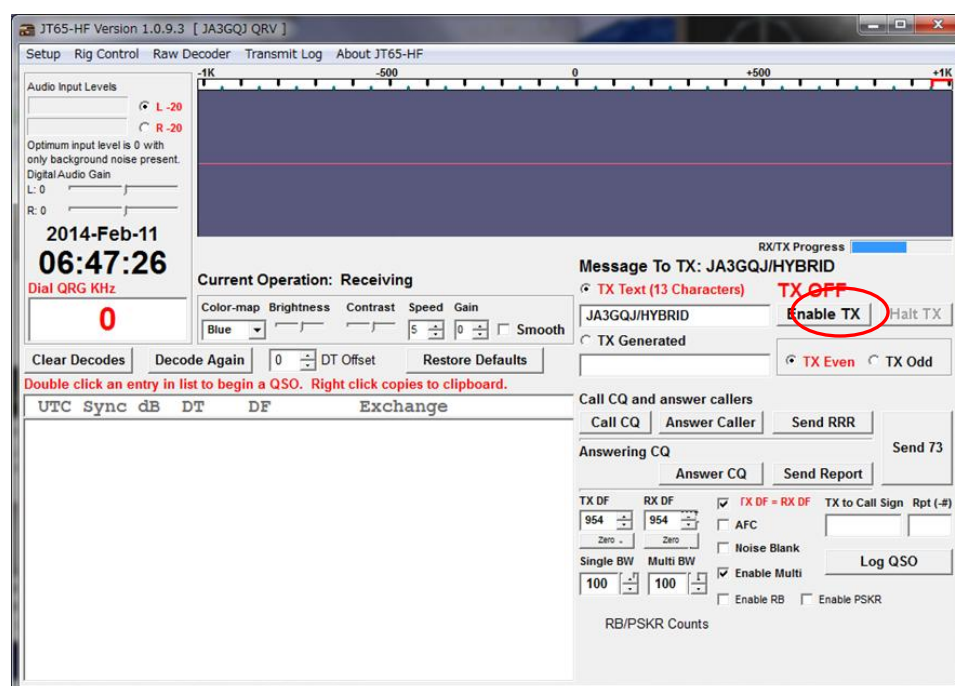
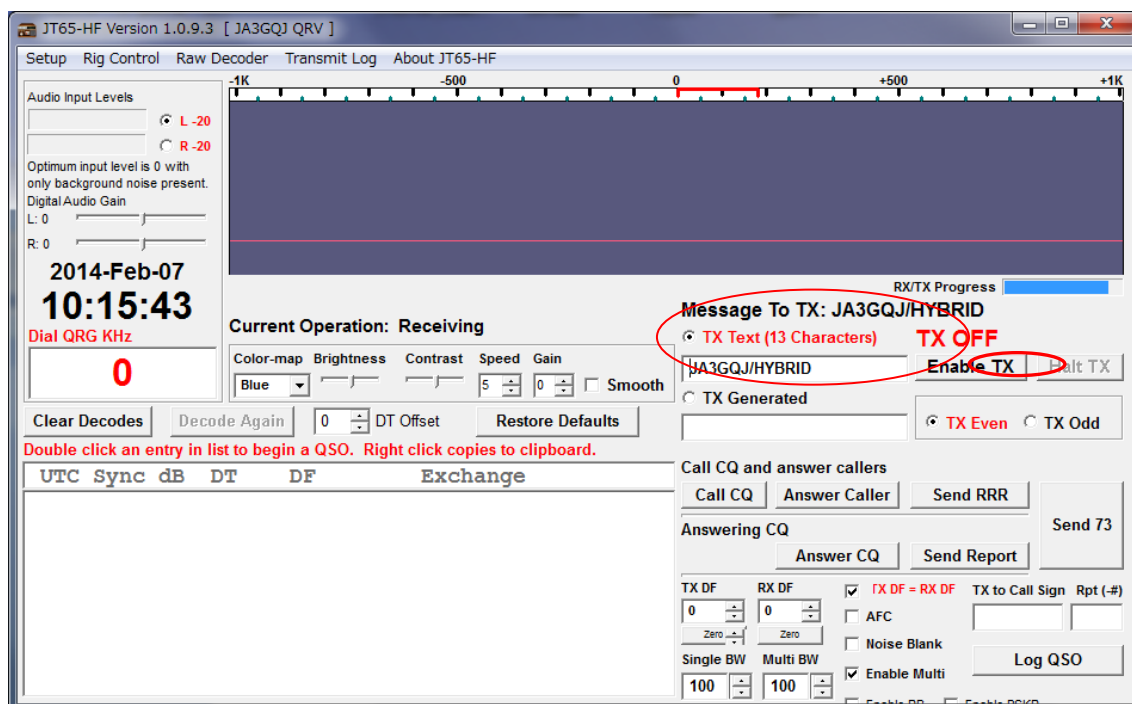
Then, I make right click on the white box at lower line of “TX Text (13 Characters)”.

Then, I select the character “JA3GQJ/HYBRID” in the small screen pop up as like as the following figure.



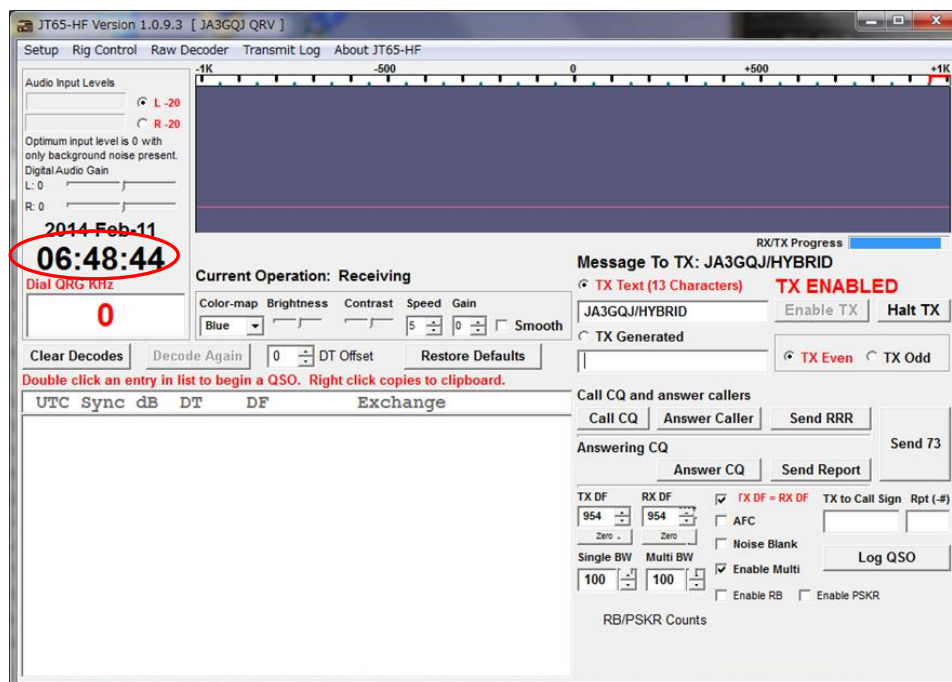
Then, the command character “JA3GQJ/HYBRID” is inputted automatically at the white box where I made right click. I select “TX Text (13 Characters)”. Then indication of

“Message to TX: No message entered” changed to “Message to TX: JA3GQJ/HYBRID”
And disabled “Enable TX” button changed to enabled “Enable TX” button with change of character color gray to black.

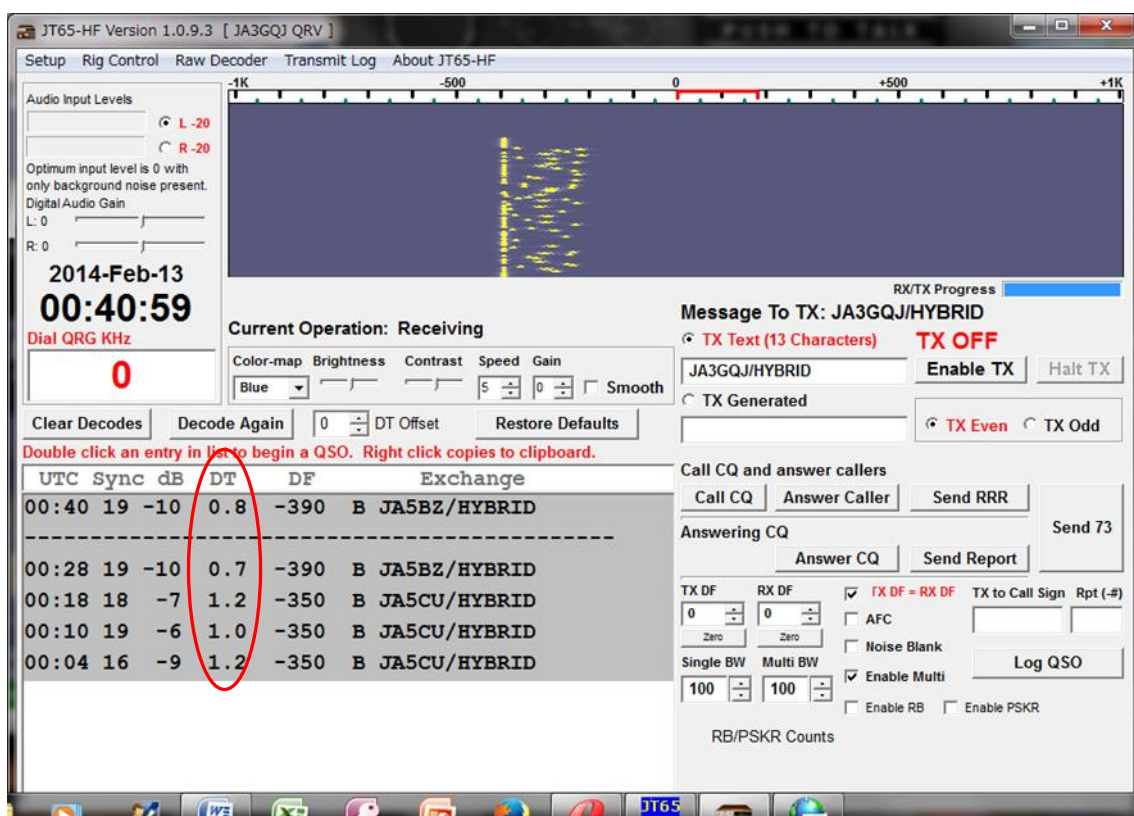


After I click “Enable TX” button, indication of “TX OFF” changed to “TX ENABLE”.
Then, I wait next even minute. For instance, if it is 06:48:44 as like as following figure then I

have to wait another 1minute and 16seconds by the time transmitting will start.



- If I want to stop transmission then I click the “Halt TX” button”. And If I don’t click the “Halt TX” button then transmission is occur every 1 minute automatically.
- I knew that the time synchronization with QSO partner is very important for the JT65-HF by manual.
- I know the deferent time (in second) with partner at “DT” of JT65-HF screen where indicating received character as like as following figure..



- Of course, I don't forget to put the microphone in front of the PC speaker and turn the PTT button of CQ-100 on before start transmitting action of the JT65-HF.

The above is the gist of my experience.

As of 2014/09/12 Shu JA3GQJ