

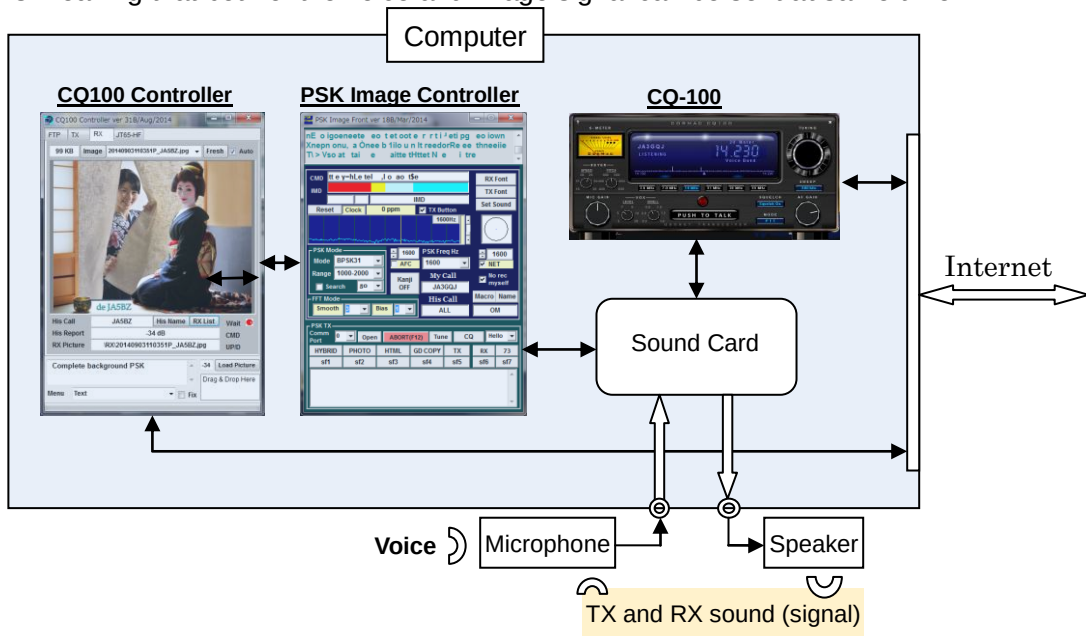
My experience of the picture exchange with CQ100 Controller and PSK Image Controller

By Shu JA3GQJ

If I use the CQ100 Controller and PSK Image Controller 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 PSK mode. My understanding about CQ-100 Controller and PSK Image Controller is as schematic diagram as follows. The “CQ100 Controller”, “PSK Image Controller” and “CQ-100” are used. And I am managing both of signal the voice and PSK with microphone and speaker between the software. Both of the voice and image signal can be send 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 send, 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. PSK Image Controller Download and setup

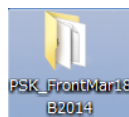
When I visited http://jq1hdr.uzusionet.com/easypal_eng/index.html, I could get the software.

2. PSK Image Controller installation

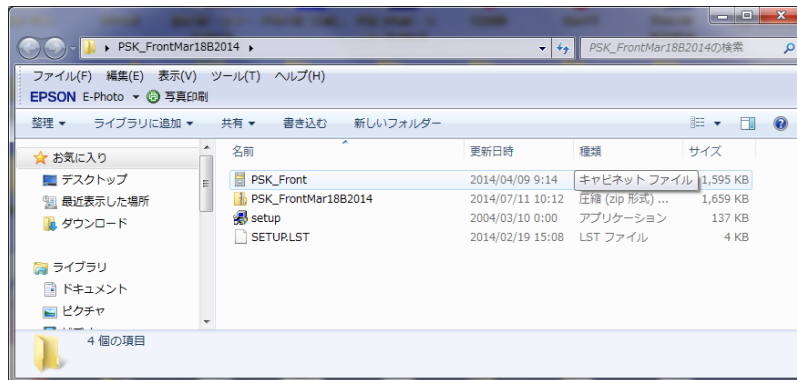
After download, I installed the PSK Image Controller with following orders.

2-1 I extracted the PSK_FrontMar18B2014.zip file which I have downloaded at desktop of my PC.

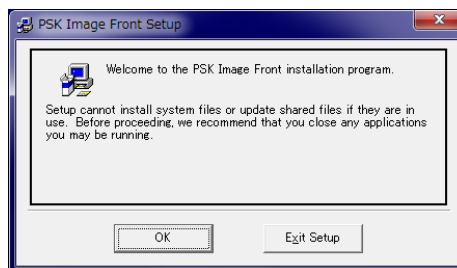
2-2 Then, I had the folder named PSK FrontMar18B2014 at desktop of my PC.



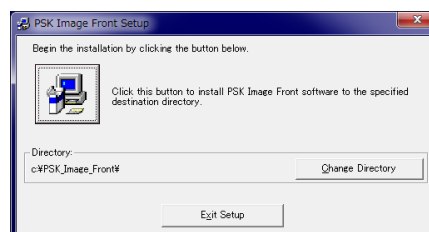
2-3 Then, I opened the folder as follows.



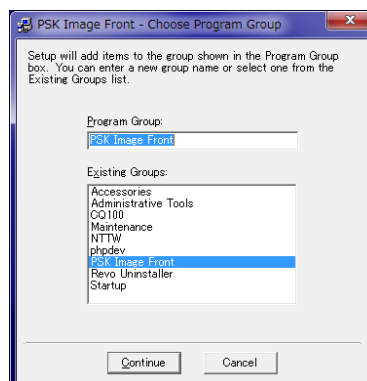
2-4 Then, I clicked the setup icon to complete installation with a sequential operation as follows.



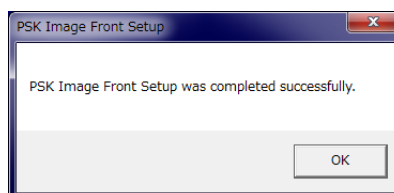
Click "OK" button



Click icon

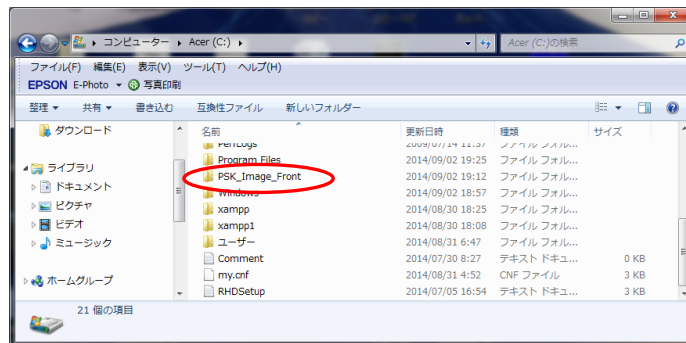


Click "Continue" button

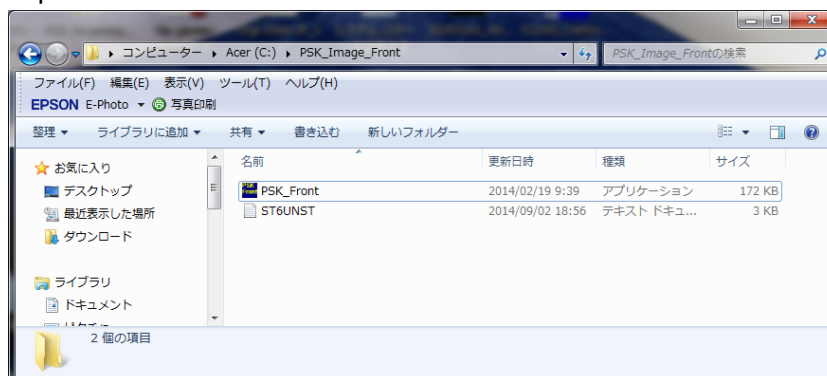


Click "OK" button

2-5) Then, I had the folder named PSK_Image_Front under root directory of “C” drive as follows.



2-6) Then, I opened the folder as follows.



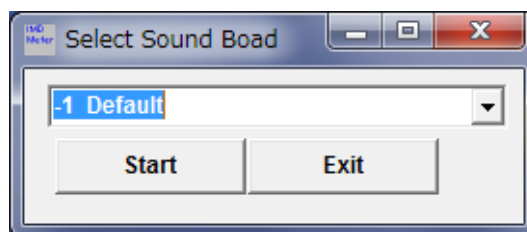
2-7 Then, I made short cut icon as follows on the desktop of PC.



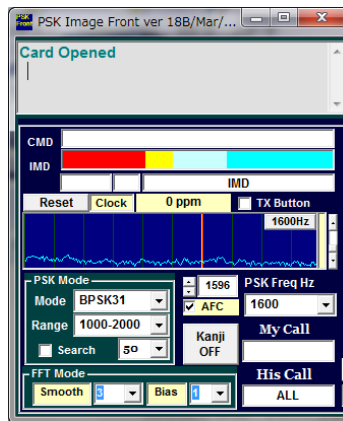
Now, installation of the PSK_Image_Front is completed.

3. Configuration (Preparation)

3-1 I click the shortcut icon and I have “Select Sound Boad” screen as follows. Then I clicked “Start” button with Default.

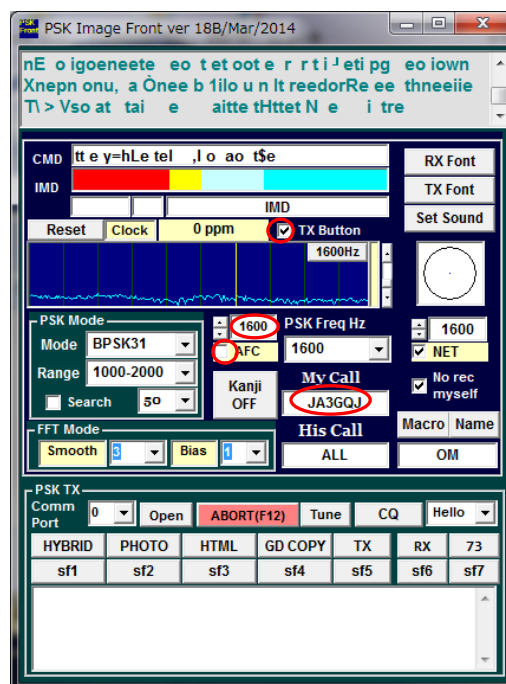


3-2 After I clicked the start button, the PSK Image Front was started as follows.



3-3 Then I did widen the screen as follows, and I did next things.

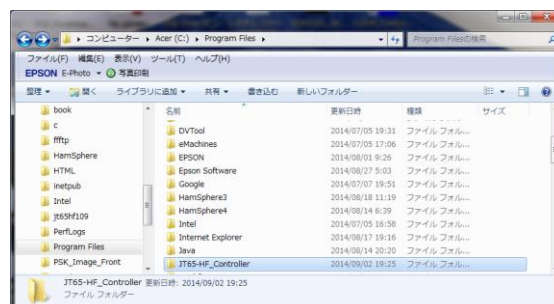
- I putted check mark at “TX Button” and putted my call-sign at “My Call”
- I removed check mark of “AFC” and, made sure the PSK frequency is 1600Hz.



I didn't touch the other than above items at this screen but I am ready to run.

4. CQ100 Controller, download and installation

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

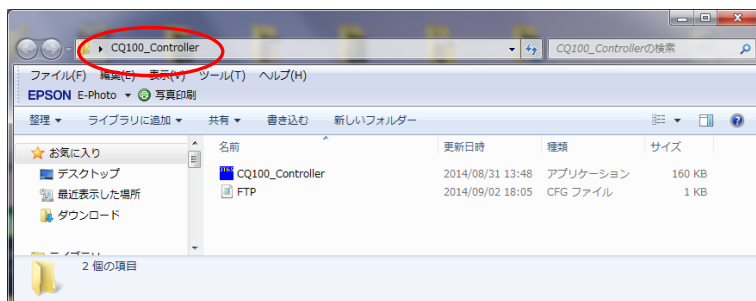


4-2 Then I downloaded the CQ100 Controller.zip file from following URL to the desktop.
<http://jq1hdr.dip.jp/>

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.



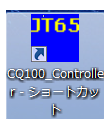
Opened CQ100_Controller folder

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

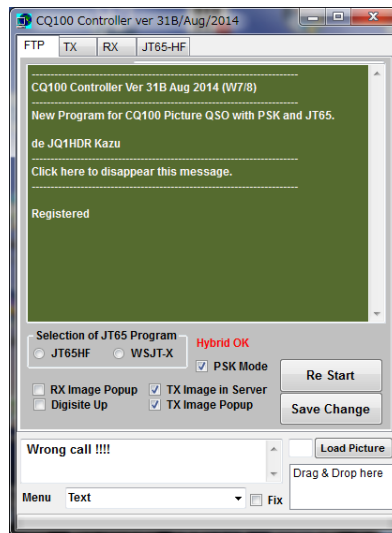
5-1 After I clicked the shortcut icon, the requirement screen for the call-sign and password (Contact JQ1HDR or Shu JA3GQJ) was pop up as follows.

Email address of JQ1HDR is ok on the QRZ.COM

Email address of JA3GQJ is ja3ggjsc@nifty.com

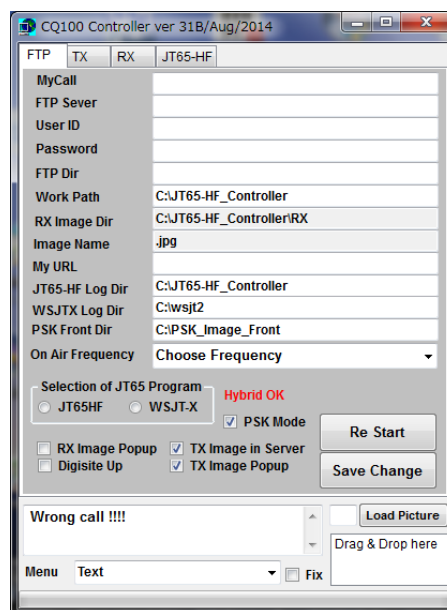


5-2 I clicked the "Start" button after put the call-sign and password, then I had the screen as follows.



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.

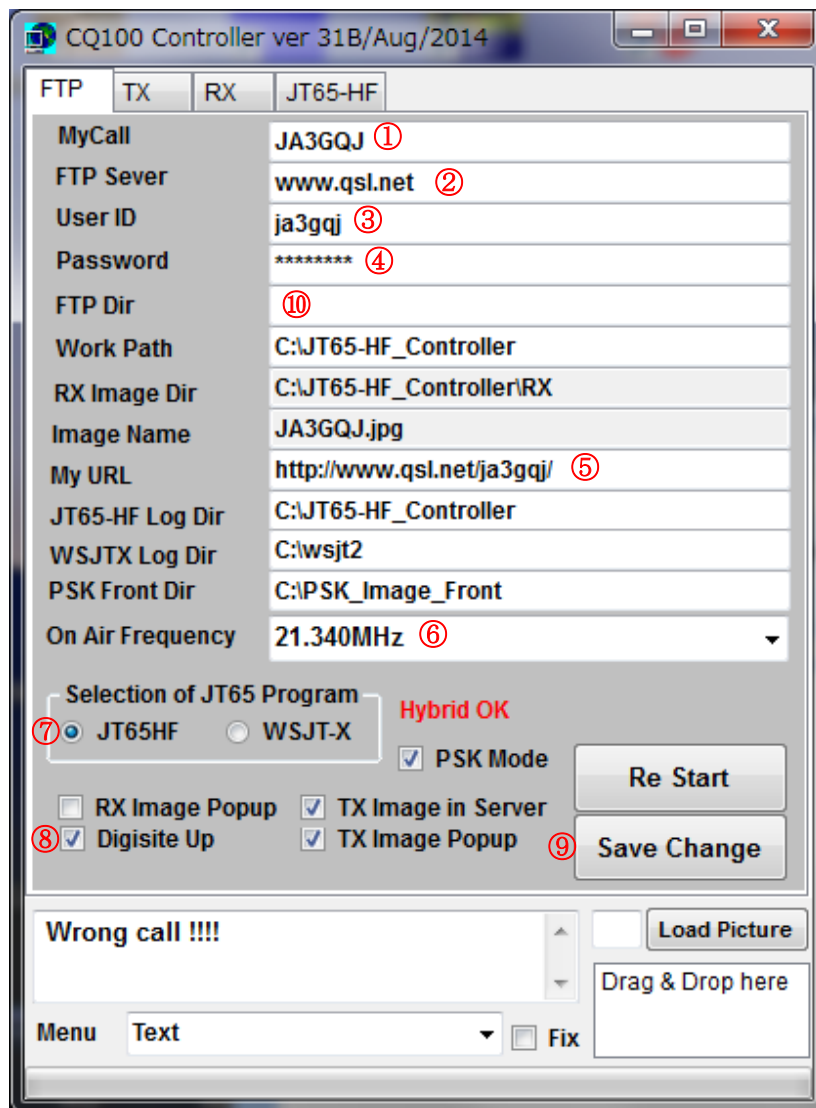
And I had to choose the frequency as 21.340MHz at ⑥On Air Frequency with click "▼".

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/ja3gqj/image1>

My case, I don't need the character, "image1" at this configuration. And it was OK just with <http://www.qsl.net/ja3gqj/> as follows (see ⑤).



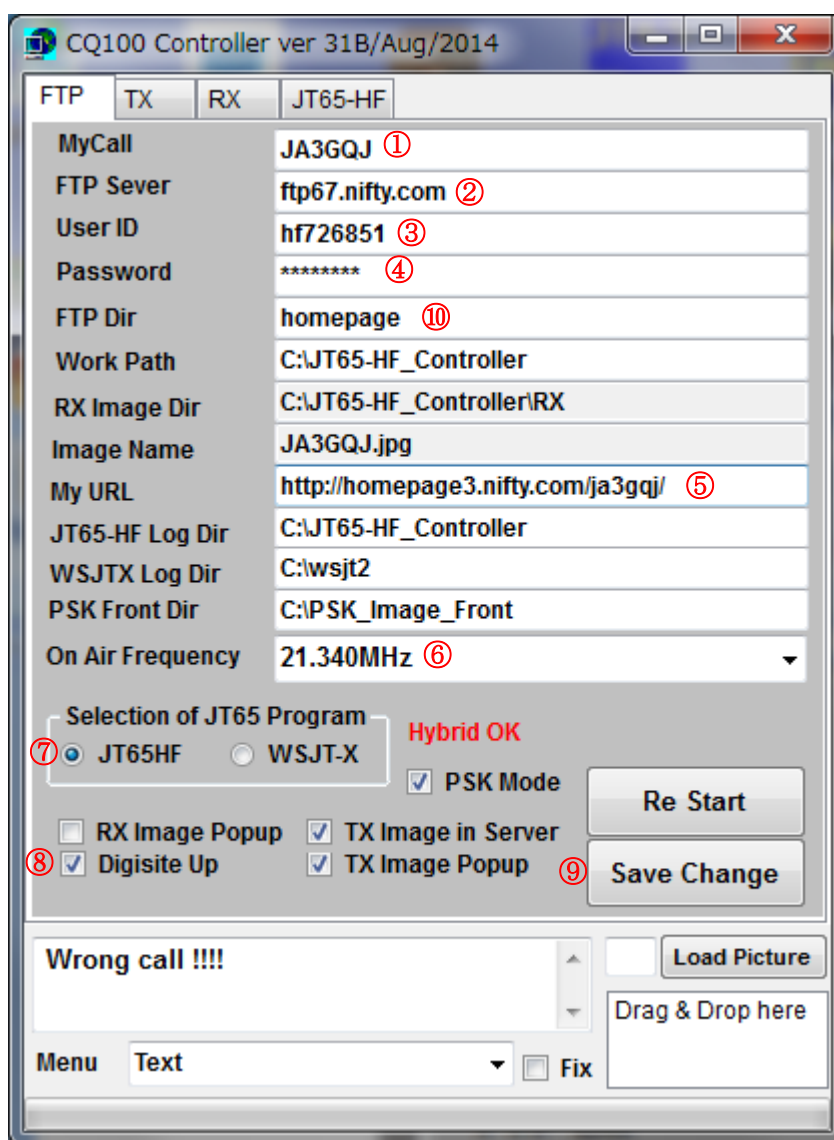
(a case of my rental server qsl.net)

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 of the two ways of CQ-100 and HamSphere.

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

I run the CQ-100, CQ100 Controller and PSK Image Controller for receive of the picture. The microphone and speaker of the soundcard is used. I don't use the

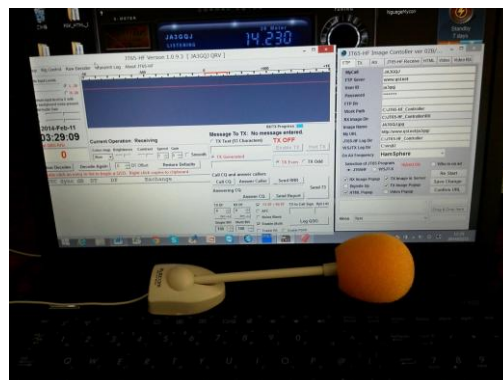
stereomix. So, I can't use the headset for this way because the sounds (signal) from speaker should be collected by the microphone which is connected to the PC. I just put the microphone in front of speaker of the PC. (show the figure at bottom of this page)



(PC desktop during running the CQ100 Controller and PSK Image Controller with the CQ-100)



(PC desktop when received picture with CQ-100)



(The microphone in front of the notebook PC speaker)



(Enlargement of the CQ100 Controller after picture received)

5-2) Use of the Hamsphere over the Internet

I run the Hamsphere, CQ100 Controller and PSK Image Controller for receive of the 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 because the sounds (signal) from speaker should be collected by the microphone which is connected to the PC. I just put the microphone in front of speaker of the PC. (showing the figure on page 9)



(PC desktop during running the CQ100 Controller and PSK Image Controller with the HamSphere)



(PC desktop when received picture with HamSphere)



(Enlargement of the CQ100 Controller **RX** screen after picture received)

6. TX the pictures.

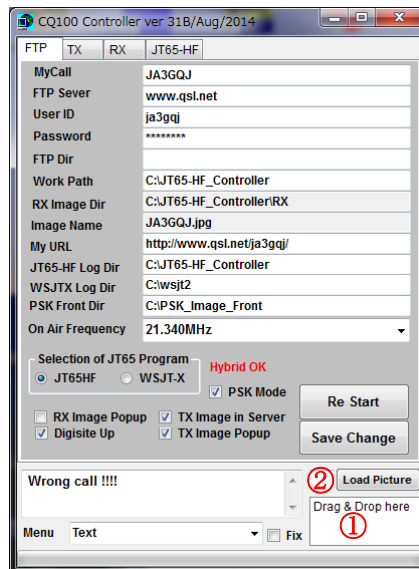
When I send the picture, same processes is necessary to prepare the picture at the CQ100 Controller for the CQ-100 and HamSphere. Here is one of my way for the CQ-100.

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 stand-by screen with CQ-100)



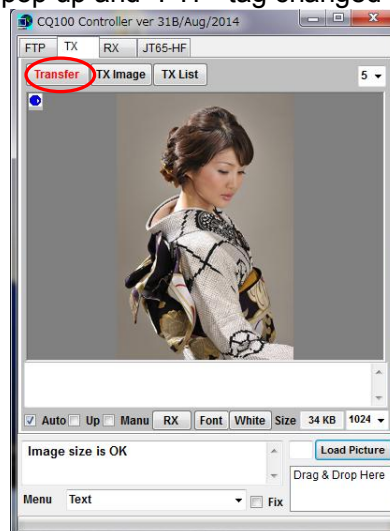
(Enlargement TX screen of the CQ100 Controller before load picture to send)

- 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)

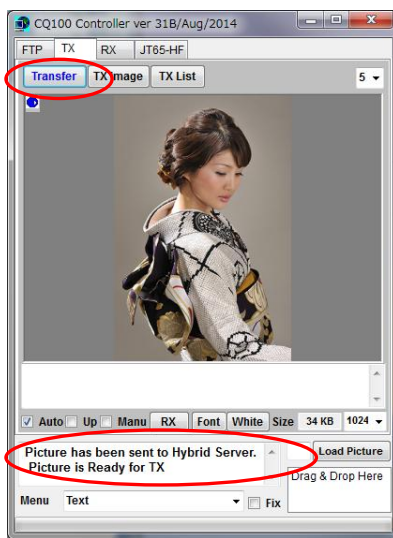
And I drop it to the “Drag & Drop here” (See above figure) of the CQ100 Controller screen. Then, the picture pop up and “FTP” tag changed to “TX” tag.



(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”.

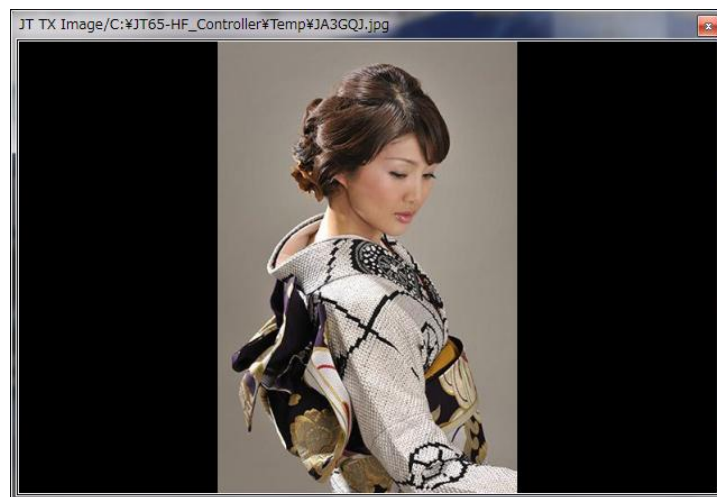


(Ready to send the picture at CQ100 Controller)

- 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)



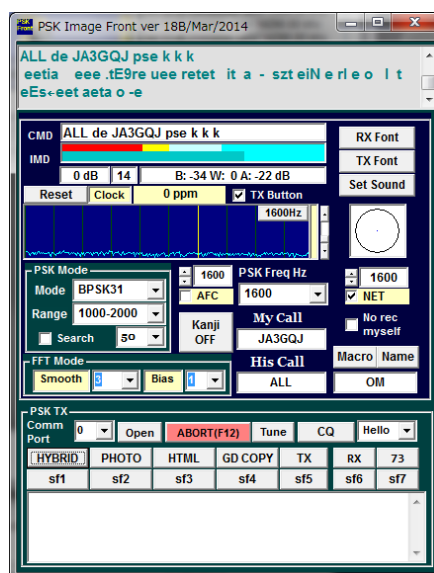
(The picture pop up by check mark at "TX image popup" of FTP tag)

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

6-2 TX Picture

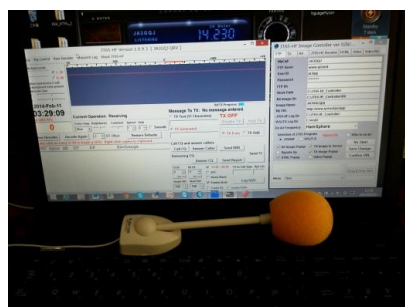
After I put the picture into the CQ100 Controller, I click the "HYBRID" button of the PSK Image Front screen. Necessarily, I make sure the three items as follows.

- 1600Hz of PSK frequency
- "AFC" without check mark
- The call-sign which was put in at the "My Call"..



(Enlargement screen of the PSK Image Front)

- Of course, I didn'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 PSK.



(The microphone in front of the notebook PC speaker)

- I didn't need to use the function buttons except "HYBRID" and "ABORT(F12)" button.
- If I remove the check mark of No rec myself" then I'm able to monitor my TX picture at "RX" tag screen. And I am able to upload the picture to the Digisite.

The above is the gist of my experience .
Since October 29 2014, we are able to exchange
WMV,MP4,MP3 format

As of 2014/11/21 Shu JA3GQJ