

INSTRUCTION MANUAL

CTRS-100A

NETWORK UTILITY SOFTWARE

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1. OUTLINE

This software is for setting the network of compact recorder CTRS-100A, wireless LAN unit CTRS-WLAN010A, CTRS-WLAN011A, CTRS-WLAN012A. This instruction manual describes the operating environment, operating method, and precautions of this software.

1-1. Target device

This software supports the devices shown in the table below. For handling of each device, refer to the instruction manual corresponding to the table below.

Device Name	Instruction Manual
CTRS-100A	CTRS-100A Compact Recorder 【Hardware】
CTRS-WLAN010A	
CTRS-WLAN011A	
CTRS-WLAN012A	

1-2. Operating environment

The environment in which this software operates is shown below.

OS	Windows10/Windows8.1/Windows7 Japanese / English 64bit / 32bit
Interface	100Base-TX, USB2.0 or USB3.0



- To use this software with the USB interface, it is necessary to install the USB driver. The installation of the USB driver is done at the time of setting up the control software. For detail, refer to the control software setup manual.
- Use this software with the display scale set to 100%. If the display scale is not 100%, it will not be displayed normally.

2. NETWORK SETTING PROCEDURE

2-1. Preparation

After downloading and unzipping this software set from our homepage, please confirm that it has the following folder structure. This software will not operate normally if the folder structure is not shown below.

CTRS_Network_Utility

|--- IM-A-1341C_CTRS-100A_NETWORKUTILITYSOFTWAREMANUAL_JPN.pdf : Japanese instruction manual

|--- IM-A-1342C_CTRS-100A_NETWORKUTILITYSOFTWAREMANUAL_ENG.pdf : This instruction manual

|--- CTRS_Network_Utility.exe : Network Utility software executable file

|--- Ctrs100Usb.dll : DLL for USB control

2-2. Screen explanation

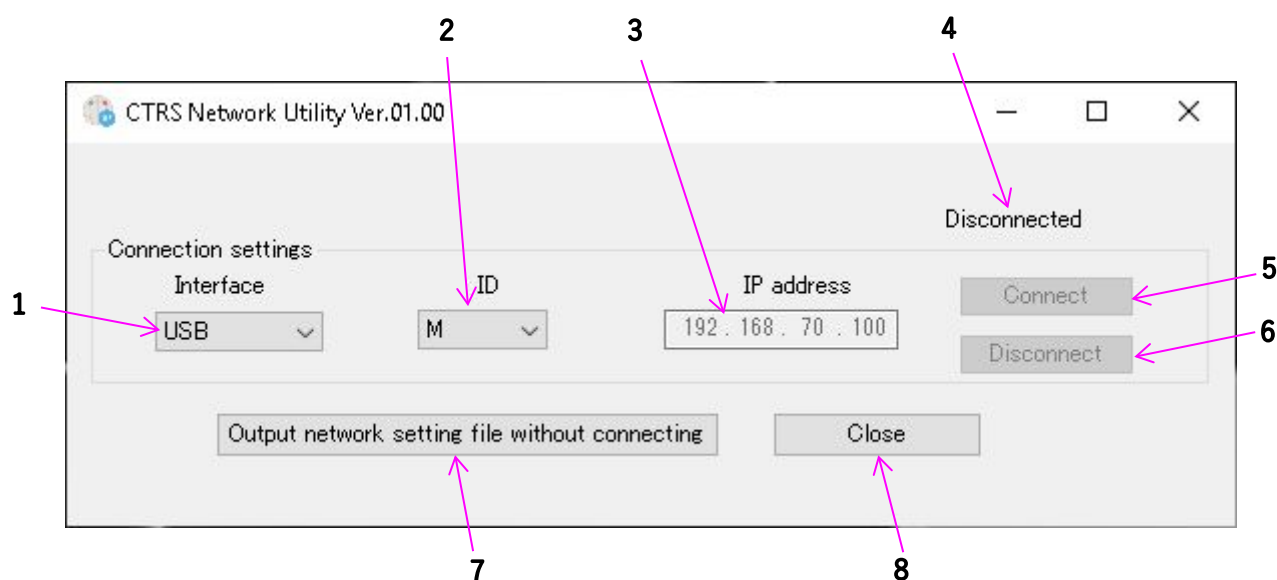


Figure 1: Startup screen

No.	Item name	Function
1	Interface	Select the interface used to connect the PC and CTRS-100A from USB or LAN.
2	Device ID	Select the device ID of CTRS-100A to connect. This is valid only when USB is selected in No.1.
3	IP address	Enter the IP address of CTRS-100A to connect. This is valid only when LAN is selected in No.1.
4	Connection status	Display the connection status of CTRS-100A.
5	Connect	Click this button to connect the PC and CTRS-100A. If the connection is successful, the network setting will be available.
6	Disconnect	Click this button to disconnect the PC and CTRS-100A.
7	Create network setting file without connecting	Click this button to display the network setting file creation screen. The file can be created without connecting to CTRS-100A.
8	Close	Click this button to exit the network utility software.

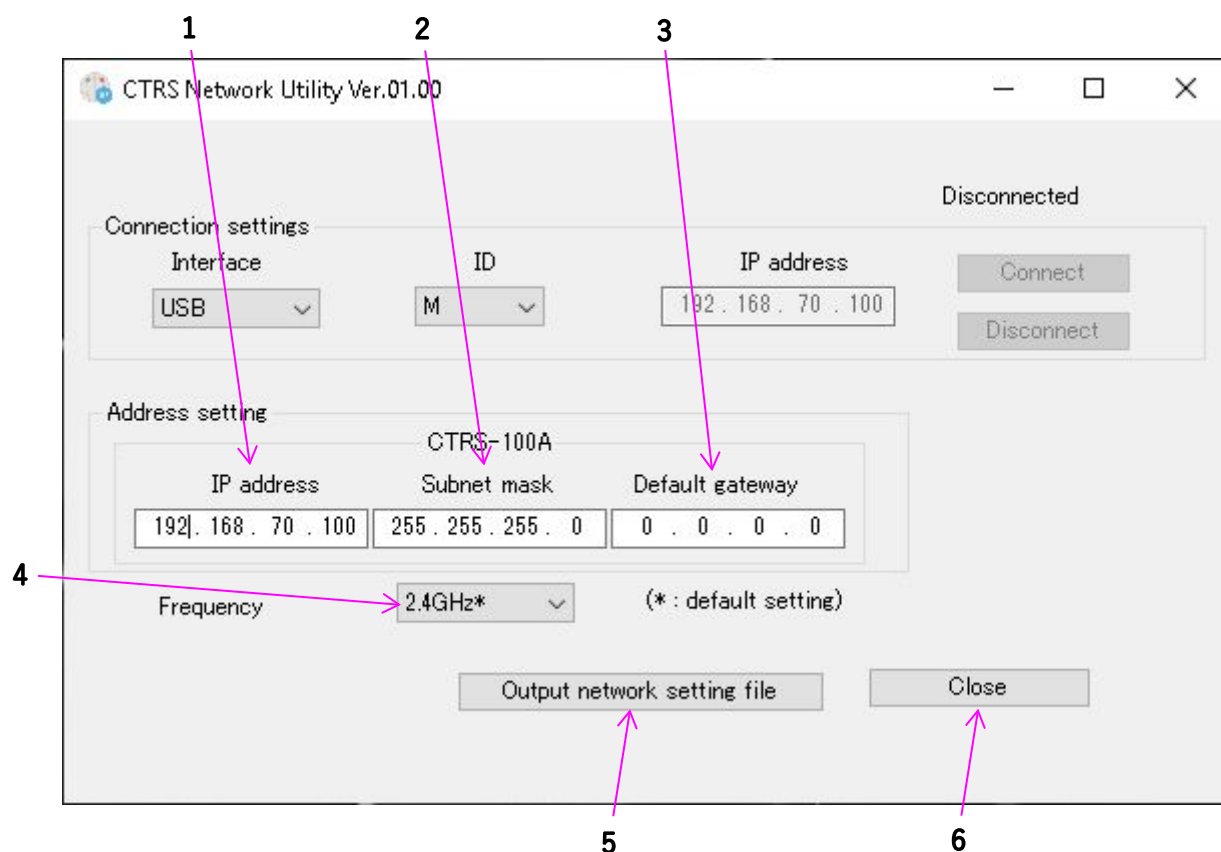


Figure 2: Network setting file creation screen without connecting CTRS

No.	Item name	Function
1	IP address	Enter the IP address to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
2	Subnet mask	Enter the subnet mask to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
3	Default gateway	Enter the default gateway to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
4	Frequency band	Select the frequency band to be set for CTRS-WLAN010A / 011A / 012A.
5	Output network setting file	Click this button to save the network settings file.
6	Close	Click this button to exit the network utility software.

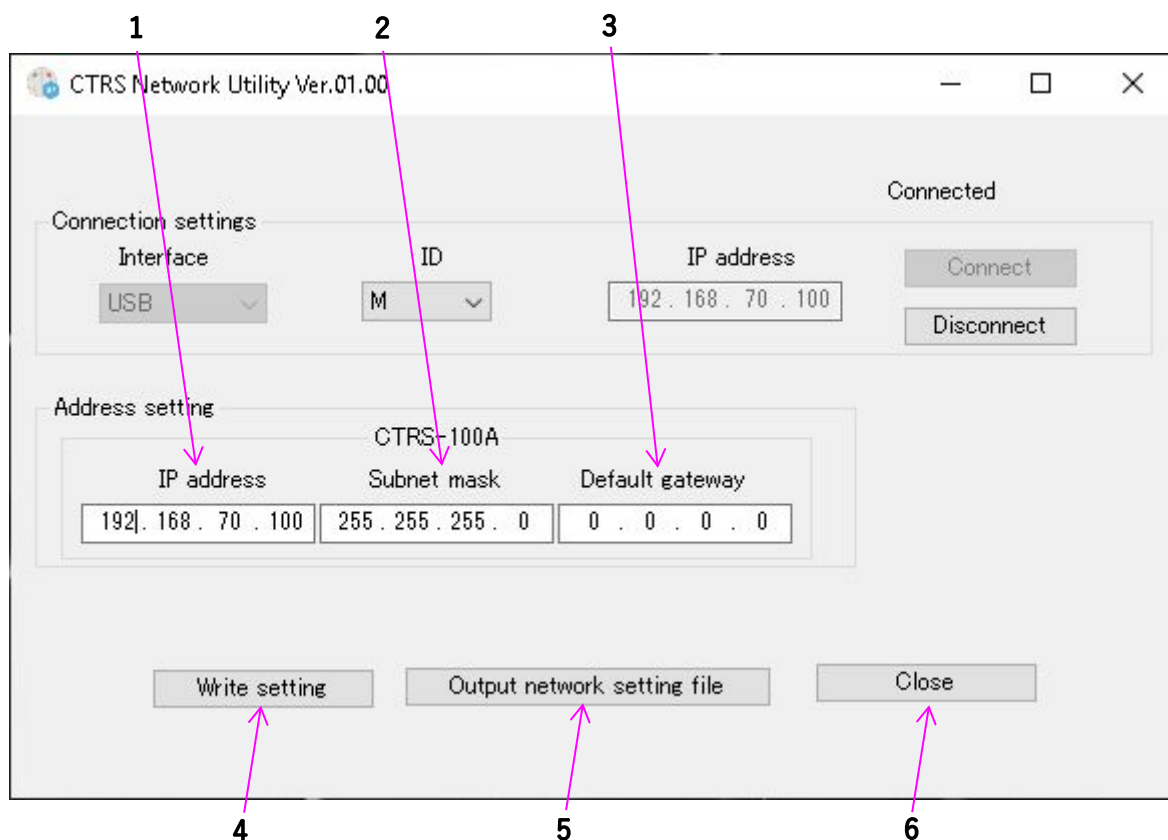


Figure 3: Setting screen after CTRS-100A connection (when wireless LAN unit is not connected)

No.	Item name	Function
1	IP address	Enter the IP address to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
2	Subnet mask	Enter the subnet mask to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
3	Default gateway	Enter the default gateway to be set for the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
4	Write setting	Write the current address settings to the CTRS-100A.
5	Output network setting file	Click this button to save the network settings file.
6	Close	Click this button to exit the network utility software.



Figure 4: Setting screen after CTRS-100A connection (when wireless LAN unit is connected)

No.	Item name	Function
1	Model name	Displays the model name of the connected wireless LAN unit.
2	Frequency band	Select the frequency band to be set for CTRS-WLAN010A / 011A / 012A. Immediately after connection, the value currently set for CTRS-100A is displayed.
3	Radio channel	Select the wireless channel to set on the CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed. The wireless channels that can be selected differ depending on the type of wireless LAN unit and the selected frequency band.
4	Firmware version	Displays the firmware version of the wireless module installed in the wireless LAN unit.
5	Open advanced settings	Click this button to open the detailed setting screen.

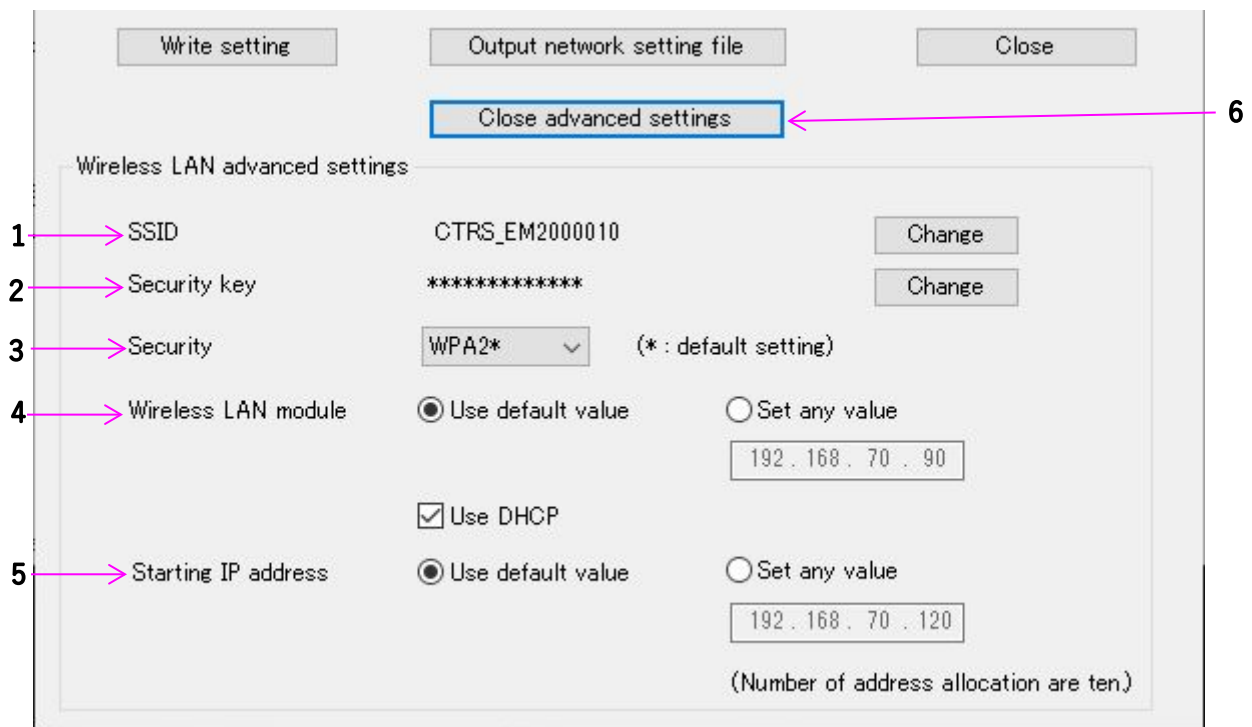


Figure 4: Setting screen after CTRS-100A connection (advanced setting)

No.	Item name	Function
1	SSID	Displays the SSID set in the CTRS-100A. To change it, click the change button.
2	Security key	Displays the security key set on the CTRS-100A. The security key is displayed as "*". To change it, click the change button.
3	Security mode	Select the security mode to set for CTRS-100A. Immediately after connection, the value currently set for CTRS-100A is displayed.
4	Wireless LAN module IP address	Set the IP address of the wireless LAN module. If you want to use the default value, select "Use default value". If you select "Set any value", you can enter the value you want to set.
5	DHCP	To use the DHCP, check "Use DHCP". If you check it, the starting IP address can be set. If you want to use the default value, select "Use default value". If you select "Set any value", you can enter the value you want to set.
6	Close advanced settings	Close the advanced settings screen.

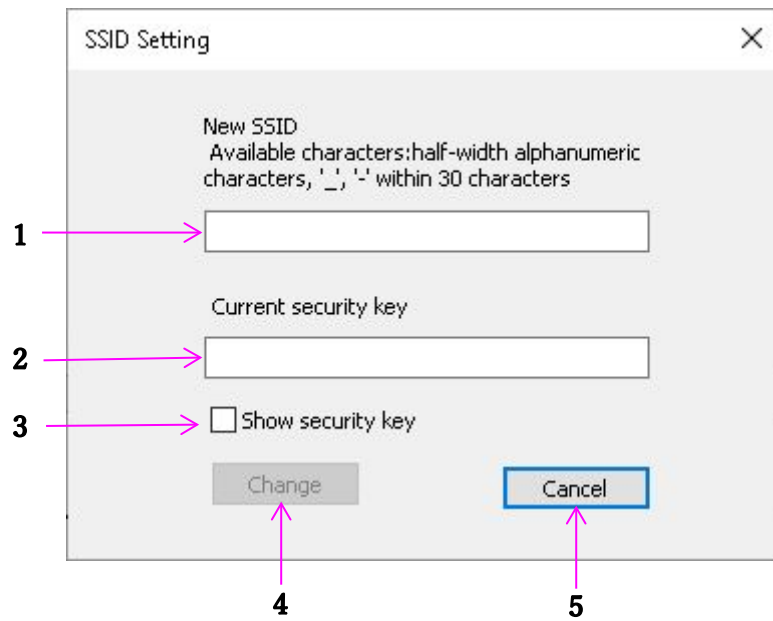


Figure 6: SSID setting

No.	Item name	Function
1	New SSID	Enter the new SSID.
2	Current security key	Enter the current security key.
3	Show security key	If you want to check the entered security key, check "Show security key".
4	Change	Click this button to change the SSID. However, the settings of the CTRS=100A will not be changed until you click "Write setting"
5	Cancel	Close the SSID setting screen without changing the SSID.

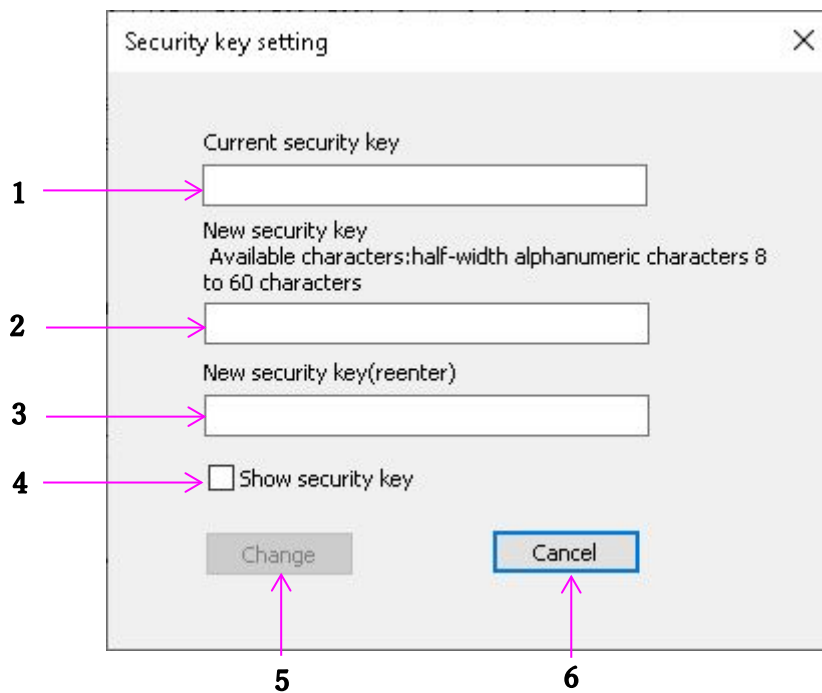


Figure 7: Security key setting

No.	Item name	Function
1	Current security key	Enter the current security key.
2	New security key	Enter the new security key.
3	New security key (reenter)	Enter the new security key. Please enter the same key as No.2.
4	Show security key	If you want to check the entered security key, check "Show security key".
5	Change	Click this button to change the security key. However, the settings of the CTRS-100A will not be changed until you click "Write setting"
6	Cancel	Close the security key setting screen without changing the security key.

2-3. Operating procedure (Create network setting file without connecting CTRS)



For details on the network setting file, see CTRS-100A Compact Recorder **【Hardware】**

1. If control software such as DCS-100A is open, close all of them. Then, start “CTRS_Network_Utility.exe”.
2. Click “Output network setting file without connecting”.

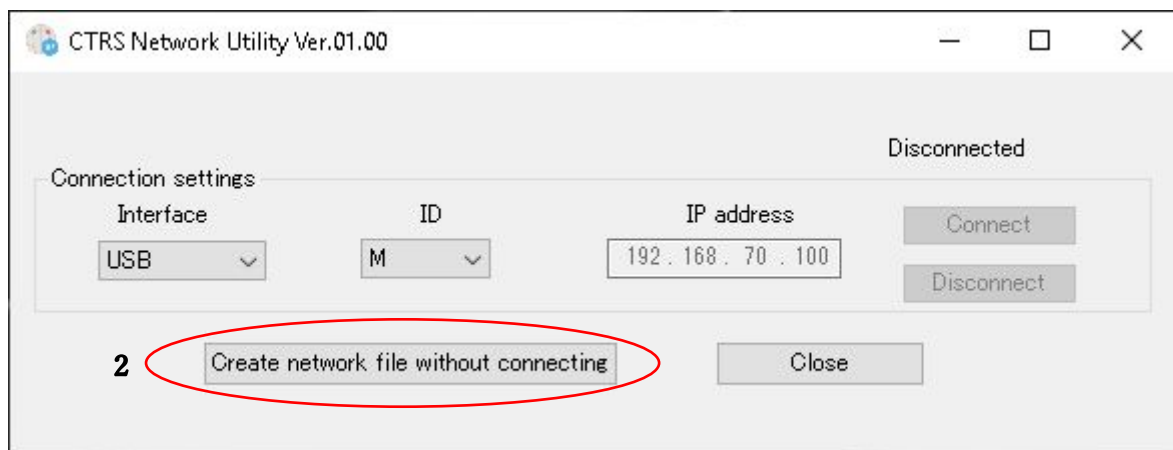


Figure 8: Startup screen

3. Select the device ID of the network setting file to be created.
4. Enter the IP address, subnet mask, and default gateway to be set for the CTRS-100A.
5. Select the frequency band to be set for the wireless LAN unit.
6. Click “Output network setting file”.

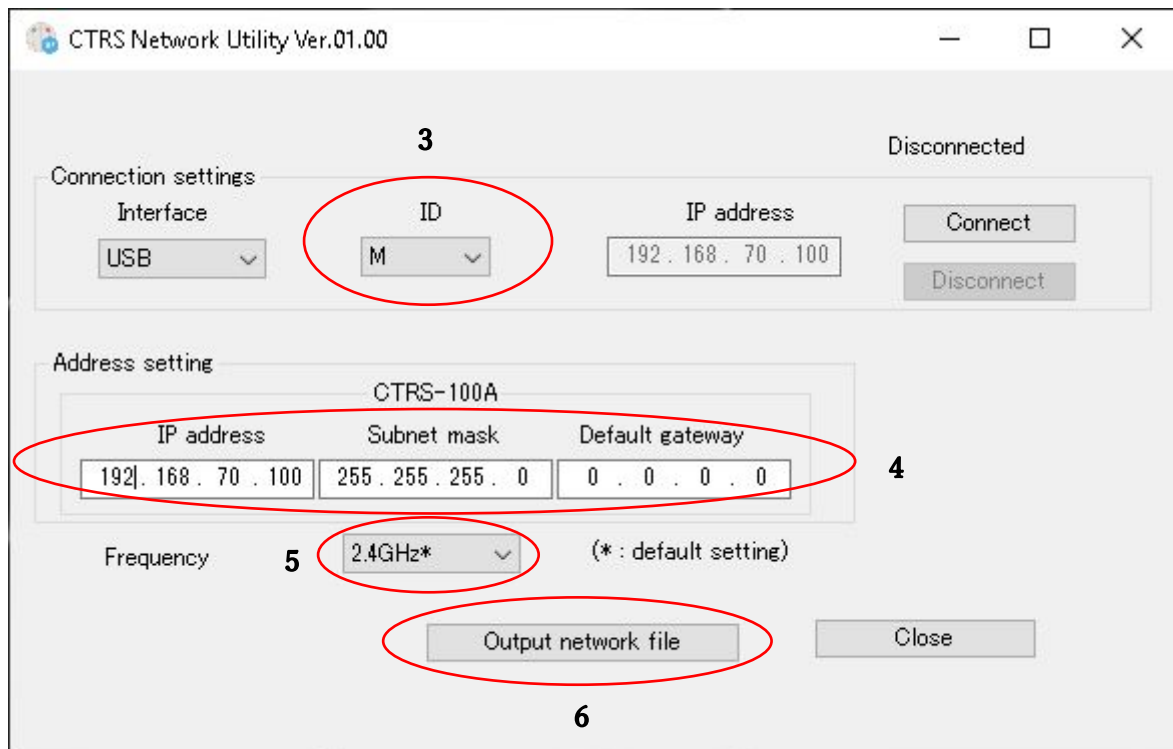


Figure 9: Network setting file creation screen without connecting CTRS

7. Select the folder where you want to save the file and click the OK button. Then, the file will be saved there.
8. Click “Close” to exit the network utility software.

2-4. Operating procedure (When connecting CTRS)

1. Connect CTRS-100A and the PC with USB or LAN. When connecting via LAN, either the synchronization unit CTRS-SYNC010A or the wireless LAN unit CTRS-WLAN010A / 011A / 012A is required. If you also want to make settings for the wireless LAN unit, connect it. Supply power to the CTRS-100A and turn on the power switch. Please refer CTRS-100A Compact Recorder **【Hardware】** .
2. If control software such as DCS-100A is open, close all of them. Then, start "CTRS_Network_Utility.exe". Turn on the power of CTRS-100A and start the update software "CTRS-Update.exe".
3. Select "USB" or "LAN" from the interface.
4. If you selected "USB" in step 3, select the device ID of the CTRS to be connected from "ID". If you do not have a synchronous unit connected, select "M". When you selected "LAN" in step 3, enter the IP address of the CTRS-100A.



The IP address you enter in step 4 is the IP address of the CTRS-100A. Please note that it is not the IP address of the wireless LAN module. If you do not know the IP address of the CTRS-100A, connect it via USB and you can check the current setting using this software.

5. Click the connect button.

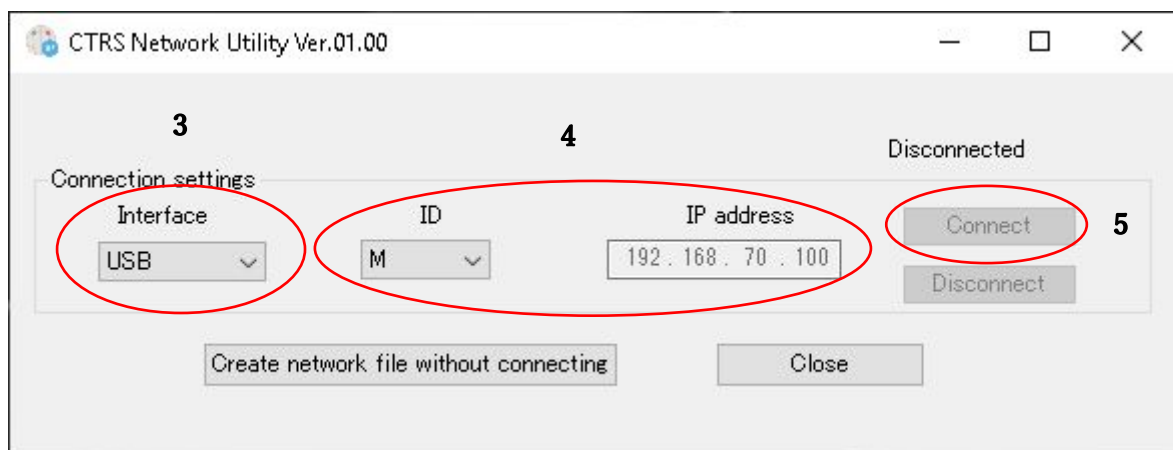


Figure 10: Startup screen



If the connection between the CTRS-100A and the PC fails, check the following items.

- The cable that connect the CTRS-100A and the PC is firmly inserted.
- For USB connection, CTRS-100A must be recognized by the device manager of the PC.
- For LAN connection, the IP address setting of the PC must be set to communicate with CTRS-100A.
- The power of CTRS-100A is ON.
- When connecting the synchronization unit, the interface selection switch setting is correct.
- Control software such as DCS-100A is not running.
- CTRS-100A is not in AD conversion (measurement) operation.

6. The current settings read from CTRS are displayed. Select and enter the item you want to change. The items that can be set are as follows.

① When the wireless LAN unit is not connected

- IP address of CTRS-100A
- Subnet mask of CTRS-100A
- Default gateway of CTRS-100A

② When a wireless LAN unit is connected

- IP address of CTRS-100A
- Subnet mask of CTRS-100A
- Default gateway of CTRS-100A
- Frequency band
- Wireless channel
- SSID (advanced setting)
- Security key (advanced setting)
- Security mode (advanced setting)
- IP address of wireless LAN module (advanced setting)
- DHCP setting (advanced setting)



- To change the SSID and security key, click the change button and follow the onscreen instructions.
- It is recommended to use the default values for wireless LAN module IP address and DHCP start IP address. If you make incorrect settings such as duplicate addresses in the same network, it will not operate normally, so please be careful when make settings.
- If the security mode is set to “NONE”, wireless access is possible without a security key. To prevent unauthorized access, we recommend that you set security.

7. To write the set contents to CTRS, click the “write setting” button. A confirmation message dialog will be displayed, so click the “Yes” button. When the writing is completed, a complete message dialog is displayed.



The content written in step 7 will be reflected at the next startup. Until the power is turned off and restarted, it is operating with the previous settings, so please be careful.

8. To create a network setting file, click the “Output network setting file” button. Select the folder where you want to save the file and click “OK” button. Then, the file will be saved in the selected folder.

The screenshot shows the 'CTRS Network Utility Ver.01.00' window. It has a title bar with standard window controls. The main area is divided into several sections:

- Connection settings:** Includes a status indicator 'Connected' in the top right. Below it are fields for 'Interface' (set to 'USB'), 'ID' (set to 'M'), and 'IP address' (set to '192.168.70.100'). There are 'Connect' and 'Disconnect' buttons.
- Address setting:** A section for 'CTRS-100A' with fields for 'IP address' (192.168.70.102), 'Subnet mask' (255.255.255.0), and 'Default gateway' (0.0.0.0).
- Wireless LAN setting:** Includes 'Model name' (CTRS-WLAN010A (Japan)), 'Frequency' (5GHz), 'Radio' (48*), and 'Firmware version' (BB3-1.31). A note below says '(* : default setting)'.

At the bottom, there are three buttons: 'Write setting' (circled in red with a red '7' above it), 'Output network file' (circled in red with a red '8' above it), and 'Close'. There is also an 'Open advanced settings' button at the very bottom, highlighted with a blue border.

Figure 11: Setting screen



Only the following four items can be saved in the network setting file.

- IP address of CTRS-100A
- Subnet mask of CTRS-100A
- Default gateway of CTRS-100A
- Frequency band

Please note that other items cannot be saved in the network setting file.

9. Click “Close” button to exit the network utility software.