

Multifunction Analyzer

Tutorial for DC



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01. Introduction

This document describes the flow of how to operate the **Simple DC supply function** [the abbreviated title is **DC**] that is implemented in the **Multifunction Analyzer** [the abbreviated title is **MFA**].

If you have any words you don't know, such as name, please refer to the **Hardware Users Manual** for the **MFA** and the **Help** for the **MFA** application.



Functions

Oscilloscope

Logic analyzer

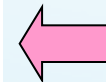
Pattern generator

Function generator

Digital multi meter

Simple DC supply

JTAG checker



02. Equipments

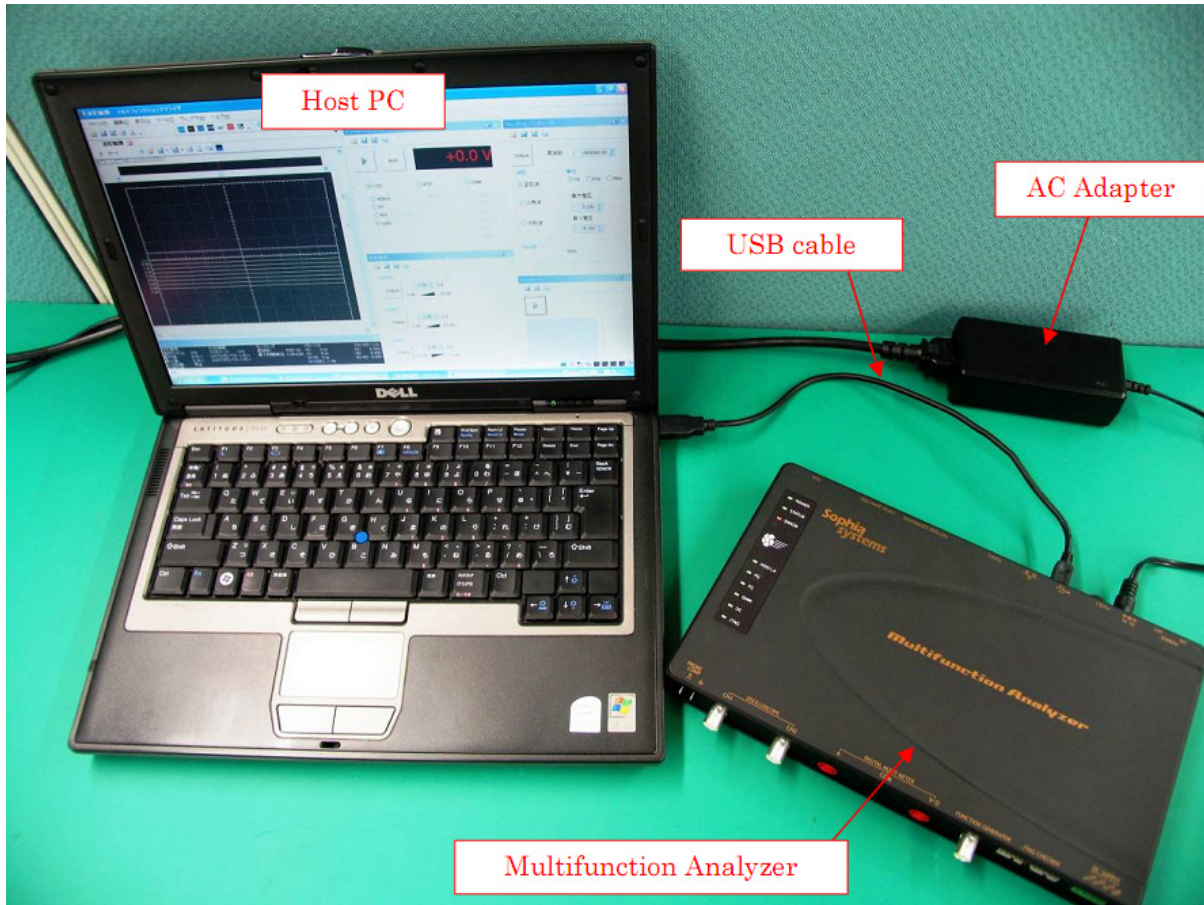
Please prepare the following equipment.

- **MFA** [Qty:1]
- **USB cable of type mini B** [Qty:1] [Sold separately]
- **AC adapter and AC cable** [Qty:1]
- **Simple DC supply connector** [Qty:1]
- **DMM cable [Black]** [Qty:1] [DMM: Digital Multi Meter]
[Sold separately: CS2893 [4310-2D-IEC-100-0 Maker: Tokiwa & Co., Inc.]
- **DMM cable [Red]** [Qty:1]
[Sold separately: CS2897 [4310-2D-IEC-100-2 Maker: Tokiwa & Co., Inc.]]
- **PC** [with the **MFA application**] [Qty:1]
*Please refer to the **Installation Manual** for how to install of the **MFA application**.

03. Starting Up

Connect the **Host PC** and the **MFA's equipments**.

Then, turn on power to the **MFA** and start the **MFA application**.



* For details about how to connect the **Host PC**, the **MFA's equipments** and about how to start the **MFA**, please refer to the **Hardware Users Manual**.

* For details about how to start the **MFA application**, please refer to the **Help**.

04. Connections

In this section, describes connections for performing **DC power measurement**.

1. Connect the **simple DC supply connector** to the **MFA**.



2. Connect the **DMM cable [black]** to the **DMM COM** connector.
3. Connect the **DMM cable [red]** to the **DMM V/ Ω** connector.

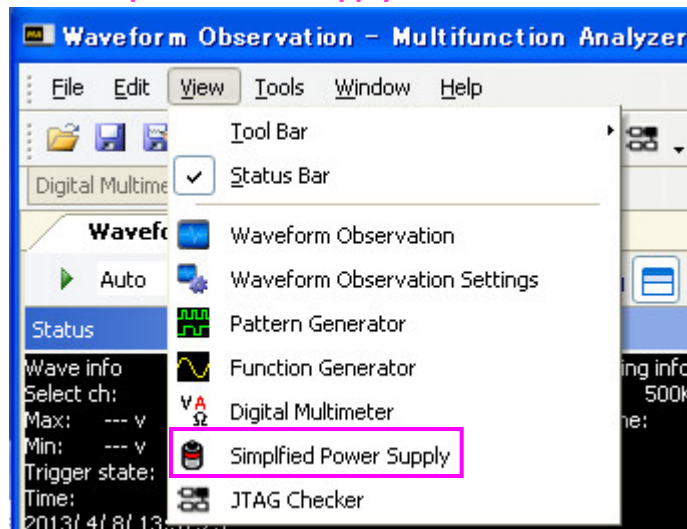


05. Starting the Setup Dialog

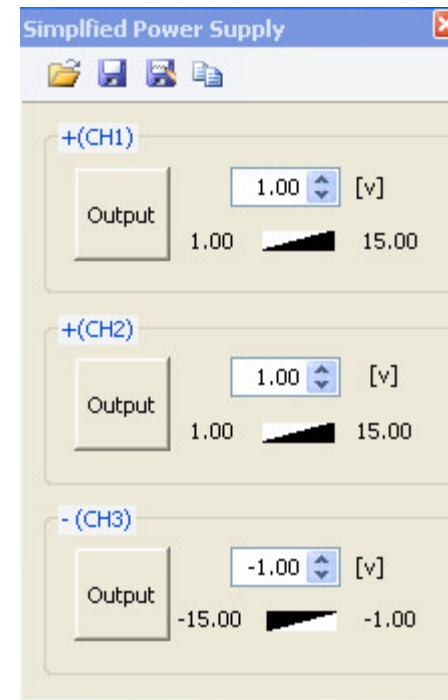
In this section, describes how to start the **DC Power Supply setup dialog** of the **MFA application**.

Click **Simplified Power Supply**.

Click **Simplified Power Supply**



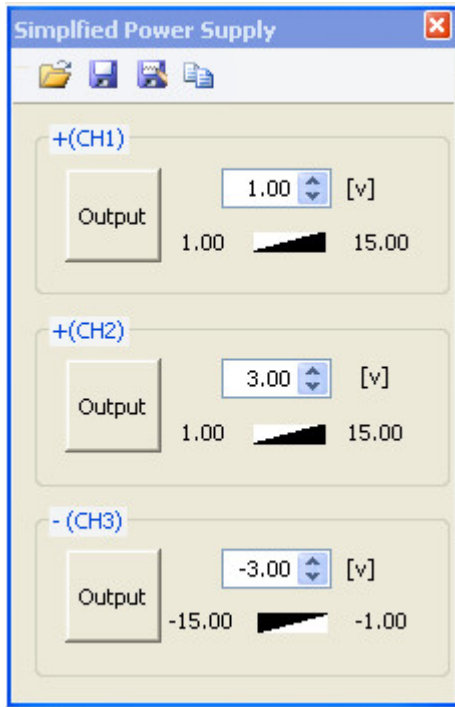
DC Power Supply setup dialog



06. Setting the Voltage

In this section, describes how to set the **Voltage**.

Set “**CH1: 1.00V**”, “**CH2: 3.00V**” and “**CH3: -3.00V**”.



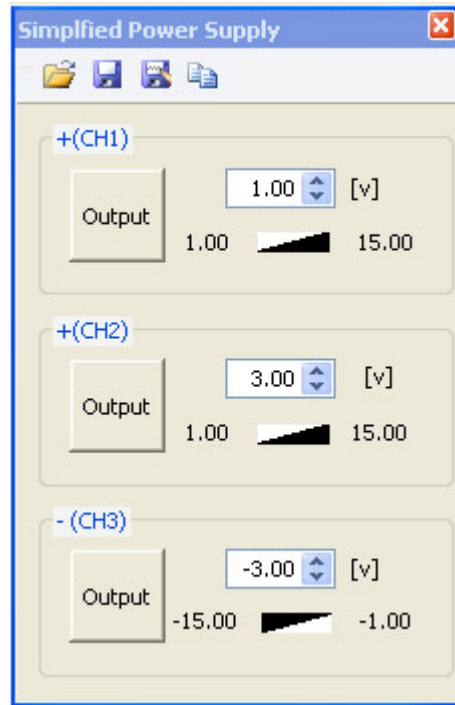
07. Starting the DC Power

In this section, describes how to start the **DC**.

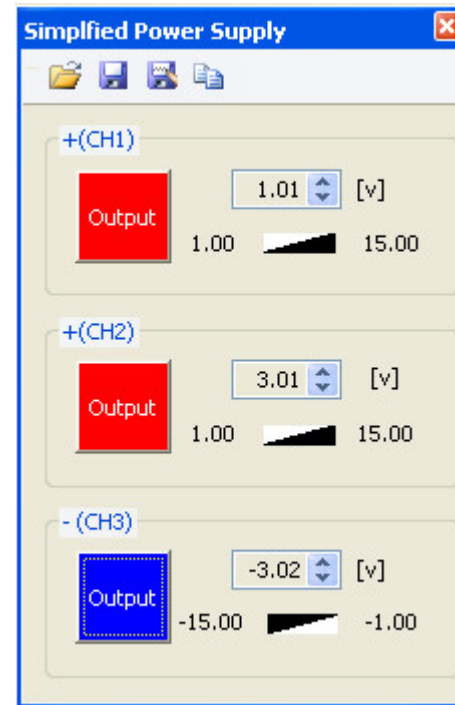
Click **Output**.

Once power output start, readings are displayed on the voltage setting unit.

Click **Output**



The Output State of the DC



08. Measuring the Voltage

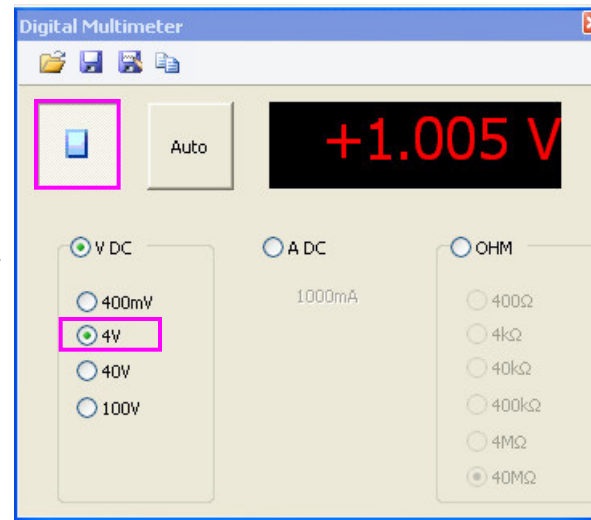
In this section, describes how to measure the **DC CH1 voltage** by the **DMM function** [1.00V].

1. Connect the **DMM cable probe** to the **simple DC supply connector**.
2. Select **VDC 4V range**, then click the **measurement start button**.
3. Check that **approximately 1V** is displayed.
4. Click the **measurement stop button** [same as the **measurement start button**].

Connect the DMM cable probe to the simple DC supply connector



Select range --> Measurement start -->
Check the measurement value

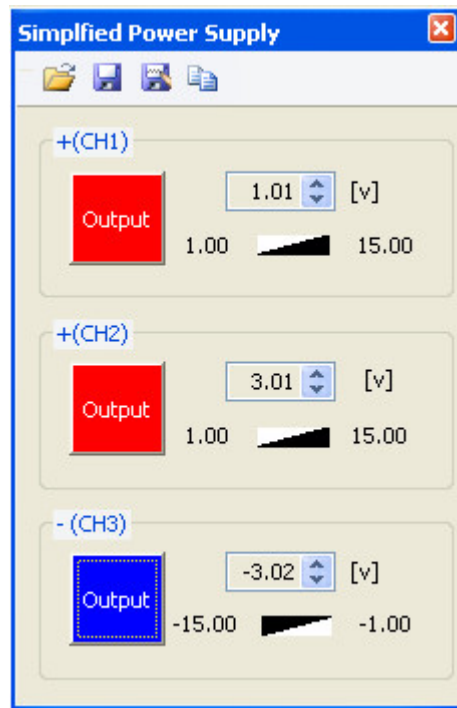


*If the operation method of **DMM** don't know, please refer to the **Tutorial for DMM**.

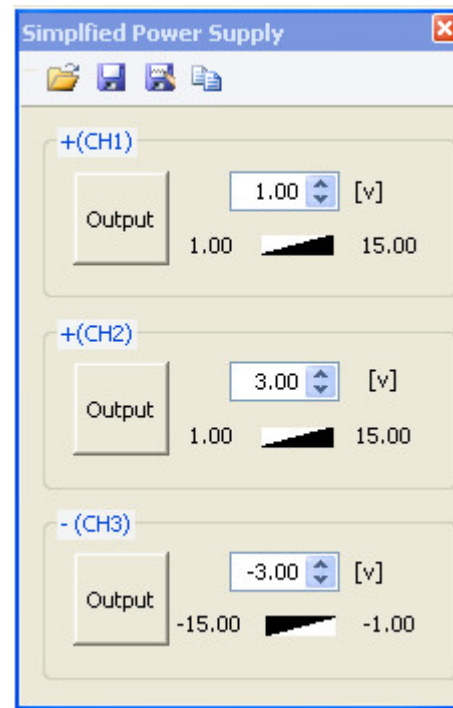
09. Stopping the DC Power

Finally, stop the **DC**.
Click **Output**.

Click Output



The Stop State of the DC



This tutorial is completed.