Multifunction Analyzer
Tutorial for Auto Report Generator
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Contents

• 01. Introduction
• 02. Equipments
• 03. Starting Up
• 04. Connections
• 05. Starting the Setup Dialog
• 06. Automatic Execution Flow
• 07. Setting the Flow 1
• 08. Setting the Flow 2
• 09. Setting the Flow 3
• 10. Setting the Flow 4
• 11. Setting the Flow 5
• 12. Setting the Flow 6
• 13. Setting the Flow 7
• 14. Setting the Flow 8
• 15. Automatic Execution
• 16. Checking the Auto Report
01. Introduction

This document describes the flow of how to operate the Auto Report Generator function 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 MFA and the Help for the MFA application.
02. Equipments

Please prepare the following equipments.

- **MFA** [Qty:1]
- **USB cable of type mini B** [Qty:1] [Sold separately]
- **AC adapter and AC cable** [Qty:1]
- **DSO probe** [Qty:1]
  [Sold separately: CS2891 [HP-9250 Maker: Misumi]]
- **PC** [with the **MFA application**] [Qty:1]

*Please refer to the *Installation Manual* for how to install of **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 DSO measurement.

1. Set the DSO probe to x10.
2. Connect the **DSO probe** to the **DSO CH1 connector**.

3. Connect the **DSO probe GND** to the **MFA PROBE GND connector**.

4. Connect the **DSO probe Signal** to the **MFA PROBE COMP connector**.
05. Start the Setup Dialog

In this section, describes how to start the **Auto Report Creator Editor** of the MFA application.

Click **Automatic Report Creation**.
In this section, describes automatic execution flow for recording to the **Auto Report**.

In the flow shown in the figure below, record the **DSO CH1 waveform** to the **Excel file**. It’s done a total of **three times** at **2-second intervals**.

START

N=0

N=N+1

Record the DSO CH1 waveform to the Excel File

Wait for 2sec

N=2?

No

Yes

END
07. Setting the Flow 1

In this section, describes how to set the flow. The contents of the setting is the All Stop of the Execution Control.

1. To set the flow can be carried out by drag and drop.

2. As the setting for the beginning, then let all the stop function of the MFA.

3. Set All Stop.
08. Setting the Flow 2

In this section, describes how to set the **flow**. The contents of the setting is the **CH1 Trigger setting** of the **Waveform Observation**.

1. When set up the **CH1 trigger setting**, the dialog starts.
2. Set the **Auto mode** and the **rising edge**.
3. When click the **OK button** of the **CH1 Trigger Setting Dialog**, the setting is complete.
09. Setting the Flow 3

In this section, describes how to set the flow. The contents of the setting is the Start of the Waveform Observation.

Set the Start.
10. Setting the Flow

In this section, describes how to set the flow. The contents of the setting is the Specify a report file of the Execution Control.

1. When set up the Specify a report file, the dialog starts.
2. Click Open a new sheet, Set the Excel file’s name and the saving folder.
3. When click the OK button of the Specification of a Report File Dialog, the setting is complete.
11. Setting the Flow

In this section, describes how to set the flow. The contents of the setting is the **Snapshot** of the **Waveform Window**.

Set the **Snapshot**.

**Setting the Snapshot**

1. (Execution Control) All Stop
2. (Waveform Observation) CH1 Trigger setting (Trigger mode: Auto, Edge: Rising)
3. (Waveform Observation) Start
4. (Execution Control) Specify a report file (C:\AutoReport_Test.xls
   Open a new sheet)
5. (Waveform Window) Snapshot
12. Setting the Flow 6

In this section, describes how to set the flow. The contents of the setting is the **Specification of waiting time** of the **Execution Control**.

1. When set up the **Specification of waiting time**, the dialog starts.
2. Set 2 seconds.
3. When click the **OK button** of the **Specification of Waiting Time Dialog**, the setting is complete.

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**Setting the Specification of waiting time**

**Specification of Waiting Time Dialog**
13. Setting the Flow 7

In this section, describes how to set the flow. The contents of the setting is the Repetition of the Execution Control.

1. When set up the Repetition, the dialog starts.


3. When click the OK button of the Repetition Dialog, the setting is complete.
14. Setting the Flow 8

In this section, describes how to set the flow. The contents of the setting is the Stop of the Waveform Observation.

Set the Stop.

Setting the flow is completed.
15. Automatic Execution

In this section, describes how to run the flow. Run the flow you have set, then create the Auto Report.

1. Click the Start button.

2. After starting, the Start button changes to Stop button, running task is displayed in yellow.

3. The automatic execution is complete When it reaches to 8.[Waveform Observation] Stop.
16. Checking the Auto Report

Finally, check the Auto Report.

1. Check the saved folder of the Excel file.
2. Open the Excel file. Then, check that there is the Sheet1-3.
3. Check that the waveform of DSO CH1 is recorded on all sheets.

- In the setting flow 4, if you do not put a check in the open a new sheet. The waveform will be recorded in a single sheet.
- In the setting flow 6, was set to 2 seconds. Also it can set by the minute or hour.
- In this tutorial, described using the only DSO function. It is possible to incorporate the auto execution also other functions [LA, FG...PG]. Try it.

This tutorial is completed.