ETAS

ES820 Drive Recorder Display App V7.5

XENARC® Monitor Setup with DIGITUS® USB 3.0 to HDMI Adapter

📖 Installation Guide

ETAS

Contents

1   Introduction

For the operation of the ES820 Drive Recorder Display App, a USB monitor with a touch screen can be connected to the ES820 Drive Recorder. This installation guide describes the installation of a driver for the DIGITUS USB 3.0 to HDMI adapter. The Xenarc monitor drivers are already installed on the Drive Recorder. This document applies to Drive Recorder V7.5.

1.1   About this Document

1.1.1   Presentation of Instructions

The target to be achieved is defined in the heading. The necessary steps for this are listed in a step-by-step guide:

Target definition

1. Step 1
2. Step 2
3. Step 3
   ➢ Result

1.1.2   Typographical Conventions

Software

Click **File → Open**. The **Open File** dialog box is displayed. Click **OK**.	GUI text, like menu commands, text on program windows, dialog boxes, buttons, and fields as well as words that should be emphasized are shown in bold.
Select the file `setup.exe`	Program code, as well as path names, file names, and folder names are shown in the Courier font.
Press <ENTER>.	Keyboard commands are shown in angled brackets.
This is a Link. www.etas.com	Links are underlined. Links to the Internet are highlighted in blue.

Hardware

Bold	Menu commands, buttons, labels of the product
	Emphasis on content and newly introduced terms

1.1.3   Presentation of Supporting Information

> **ℹ NOTE**
>
> contains additional supporting information.

2   Recommended Hardware

Xenarc 709CNH Monitor or Xenarc 1029CNH Monitor:

https://www.xenarc.com/709CNH-7-inch-IP65-sunlight-readable-waterproof-capacitive-touchscreen-HDMI-VGA-DVI-display-monitor.html

https://www.xenarc.com/1029CNH-sunlight-readable-capacitive-touchscreen-display-monitor-with-hdmi-dvi-vga-av-inputs.html

Cables for the Xenarc monitors can be ordered at XENARC:

https://www.xenarcdirect.com/709CNH-7-inch-IP65-sunlight-readable-waterproof-capacitive-touchscreen-HDMI-VGA-DVI-display-monitor.html

There are two options for the monitor power supply cable:

– AC Adapter (ACA-M12): for use in the office or lab
– Cigarette Lighter Car Adapter (CLA-M12): for use in the vehicle

For the monitor display and touch functions the following cable is necessary:

– 5 Meter Cable: Cable with various connectors
  optionally: 5 Meter HDMI & USB Only

DIGITUS USB 3.0 to HDMI Adapter:

https://www.digitus.info/de/produkte/computer-und-office-zubehoer/computer-zubehoer/usb-komponenten-und-zubehoer/grafik-adapter/da-70841/

3   Driver Installation

In this chapter, you find driver installation procedures for the following device:

- DIGITUS® USB 3.0 to HDMI Adapter

3.1   Prerequisites

- ES820 Drive Recorder SP V7.5
- Drive Recorder Configurator V7.5
- ES820 Drive Recorder in the **Active Idle** state
- Your PC connected to the ES820 Drive Recorder HOST connector via a host cable

3.2   General Procedure

The general procedure for installation of monitor drivers and/or adapter drivers is as follows:

1. Via the Drive Recorder Configurator, enter the service mode.
2. On the Drive Recorder, disable the Intel graphics adapter.
3. Install the monitor driver and/or adapter driver on the Drive Recorder.
4. Connect the adapter and/or the monitor.
5. On the Drive Recorder, enable the Intel graphics adapter
6. Via the Drive Recorder Configurator, quit the service mode
7. Via the Drive Recorder Configurator **Hardware Configuration** window, enable the Display App.
8. In future, when connecting the monitor and/or adapter to the Drive Recorder, always use the USB ports that you used for driver installation and enabling.
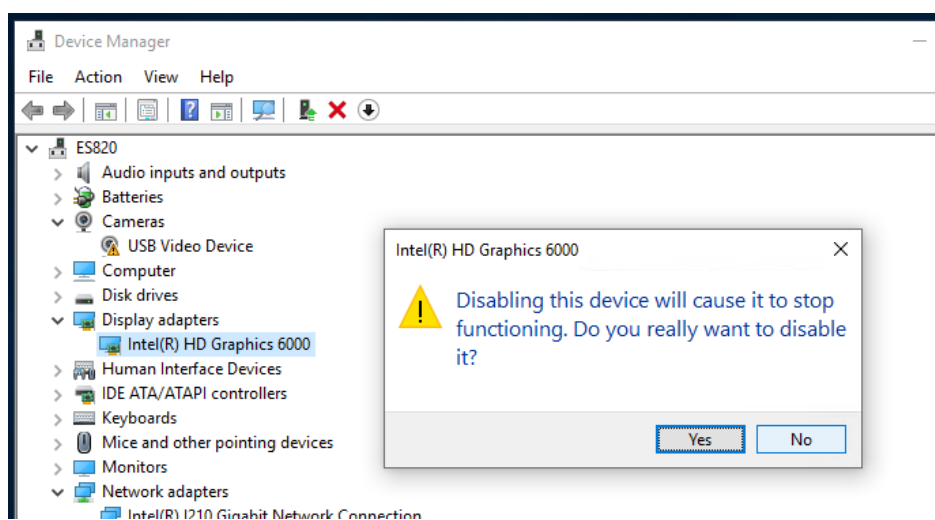
The above driver installation procedure can be applied to any installation of a monitor driver or an adapter driver if you carry out the product-specific installation in step 3. In the following chapter, the driver installation procedure is described in detail for the Recommended Hardware.

3.3   Installing the Digitus Adapter Driver

The Xenarc monitor drivers are available in the installation on the Drive Recorder.The Digitus adapter driver is available on the Digitus adapter.The installation on the Drive Recorder for the Digitus adapter and the enabling of the drivers must be carried out in the service mode.

To prepare the driver installation

1. To connect from your local PC to the Drive Recorder via the Drive Recorder Configurator, click **File** › **Connect Device**.

   The Connect Device window opens.

   Under **Device** enter the IP address 192.168.40.228.

2. Click **Tools** › **Enter Service Mode**.

3. From your local PC, connect to the Drive Recorder via the Windows **Remote Desktop Connection** App.

   i.   Enter the following IP address:

        Device: 192.168.40.228

   ii. Enter the following login data:

        User Name: DriveRecorder

        Password: etasdr

4. To access the Windows display adapters on the Drive Recorder, right-click on ⊞ and select **Device Manager**.

5. Open **network adapters**, right-click on **Intel(R) HD Graphics 6000** and select **Disable device**.

6. Click **Yes**.

   The Intel(R) HD Graphics 6000 is now disabled.

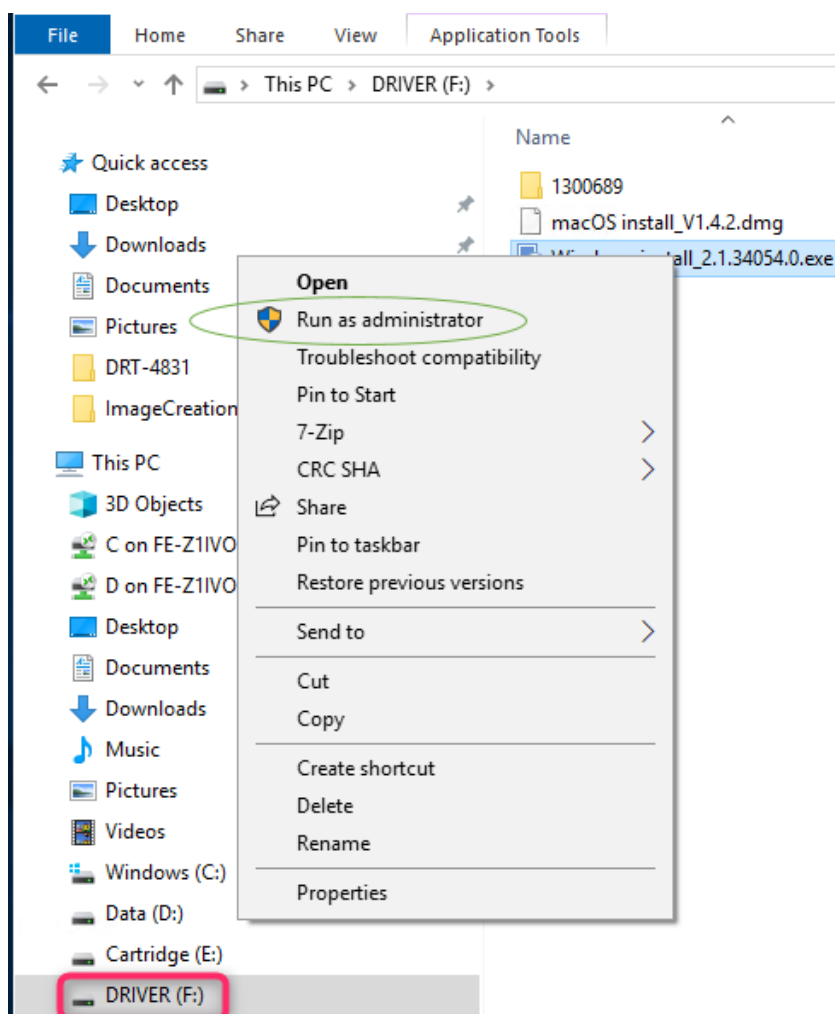7. Remain in the service mode and continue with <u>To install the Digitus adapter driver</u>.

To install the Digitus adapter driver

You have carried out the steps in To prepare the driver installation and the Drive Recorder is still in the service mode. The following steps are still carried out on the Drive Recorder via Remote Desktop Connection.
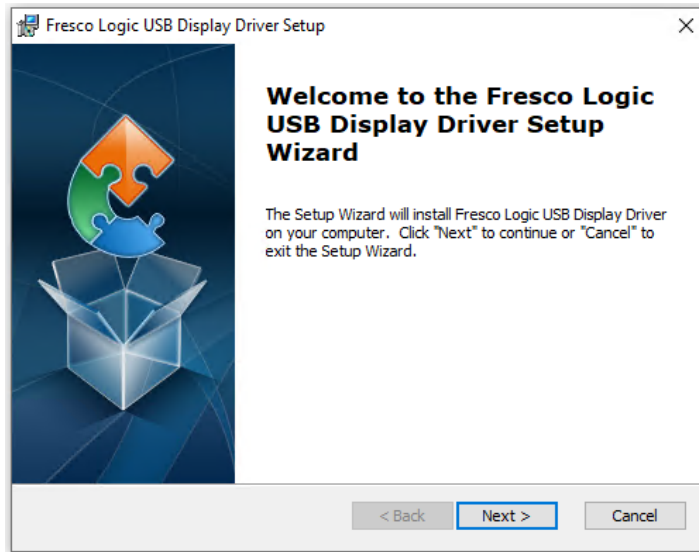

ℹ️ **NOTE**

Remember the Drive Recorder USB 3.0 port that you use for the Digitus adapter driver installation. The preferred USB 3.0 port is top left. Always use the same USB 3.0 port for the Digitus adapter afterwards when using the Display App.
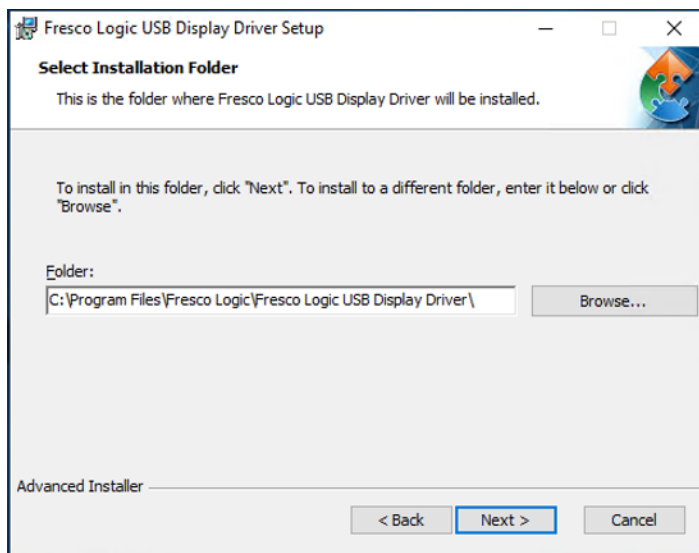
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1. Connect the Digitus adapter to a USB 3.0 port of you Drive Recorder. The preferred port is top left.

   The USB drive for the adapter is now visible in the Windows Explorer of the Drive Recorder:

   `DRIVER(F:)`

2. To run run the driver installation, in `DRIVER(F:)`, right-click the EXE file and select **Run as administrator**.
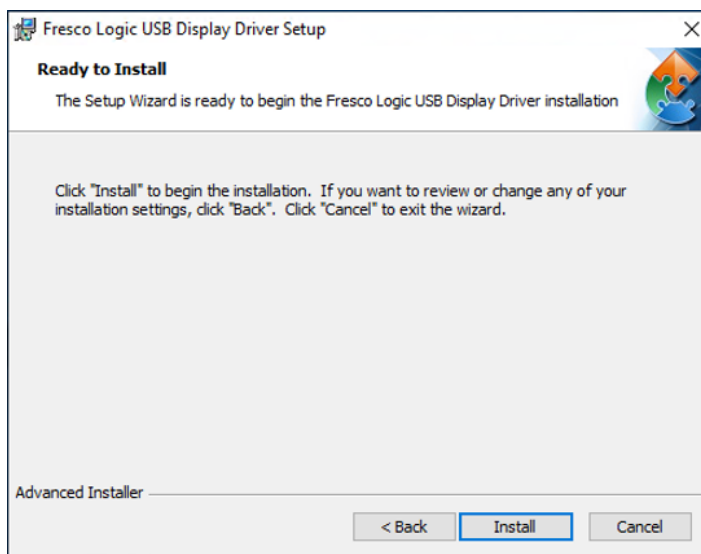
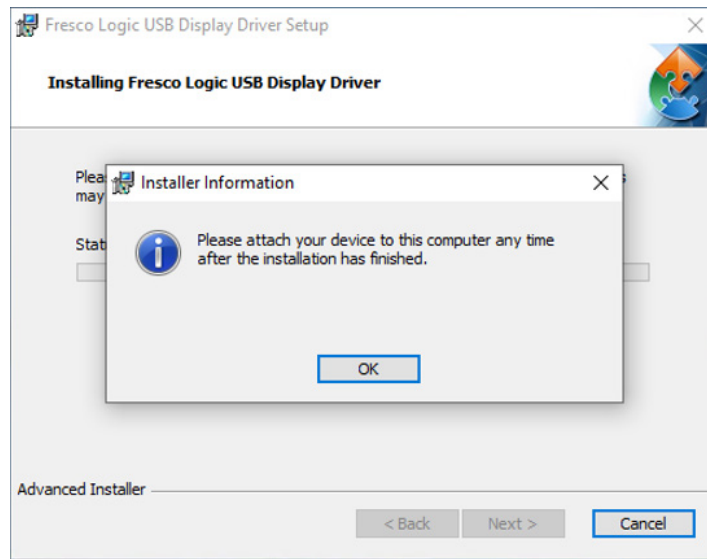3. Follow the driver setup wizard and click **Next**.

4. Use the default folder for installation and click **Next**.
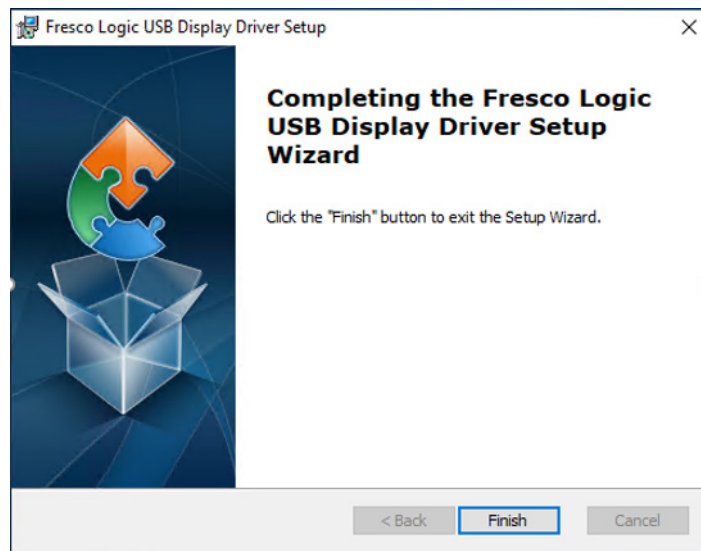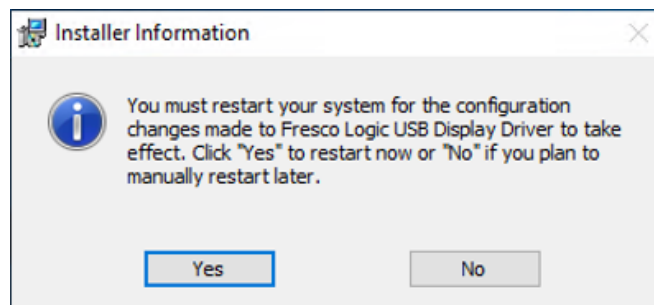

5. Click **Install**.

6. Confirm with **OK**.

7. Click **Finish**.

8. Confirm the **Installer Information** with **Yes**.

The Drive Recorder restarts. Wait until the Drive Recorder is in the active idle state again.

9. Remain in the Drive Recorder service mode and continue with To enable the drivers.

<u>To enable the drivers</u>

You have carried out the steps described in <u>To prepare the driver installation</u> and <u>To install the Digitus adapter driver</u>, and the Drive Recorder is still in the service mode.

1. Connect the Xenarc monitor to the Drive Recorder via the USB 2.0 cable. The Digitus USB 3.0 to HDMI Adapter.is still connected to the USB 3.0 port.
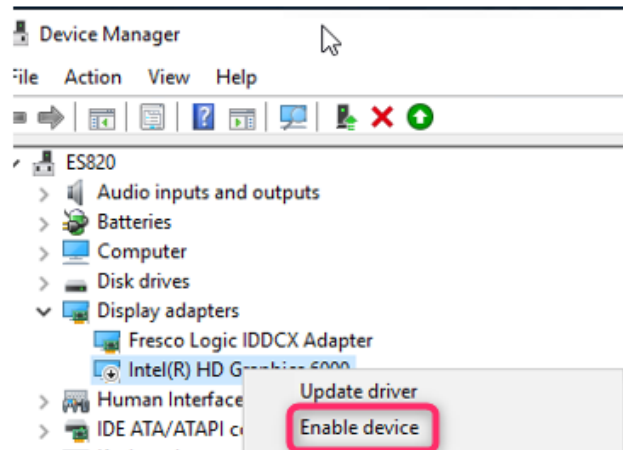

> **ⓘ NOTE**
>
> Always use the same USB 3.0 port for the Digitus adapter that you used for the driver installation.
>
> Remember the USB 2.0 and USB 3.0 ports that you use on your Drive Recorder when you first enable the Display App. You must always use the same USB ports for the monitor connection in future. The preferred USB ports are top left and top right.

   iii. Connect the monitor power cable.
     For use in the office or lab, connect the AC Adapter (ACA-M12) to a mains socket.
     For use in the vehicle, connect the Cigarette Lighter Car Adapter (CLA-M12) to the cigarette lighter socket.
   iv. Connect the DIGITUS USB 3.0 to HDMI adapter to the HDMI connector of the Xenarc monitor cable and to a USB 3.0 port of the ES820 Drive Recorder.
   v. Connect the Xenarc USB 2.0 monitor cable to enable the touch function.

2. From your local PC, connect to the Drive Recorder via the Windows **Remote Desktop Connection** App.

   vi. Enter the following IP address:
     Device: 192.168.40.228

   vii. Enter the following login data:
     User Name: DriveRecorder
     Password: etasdr

3. To access the Windows display adapters on the Drive Recorder, right-click on ⊞ and select **Device Manager**.
4. Open **network adapters**, right-click on **Intel(R) HD Graphics 6000** and select **Enable device**.
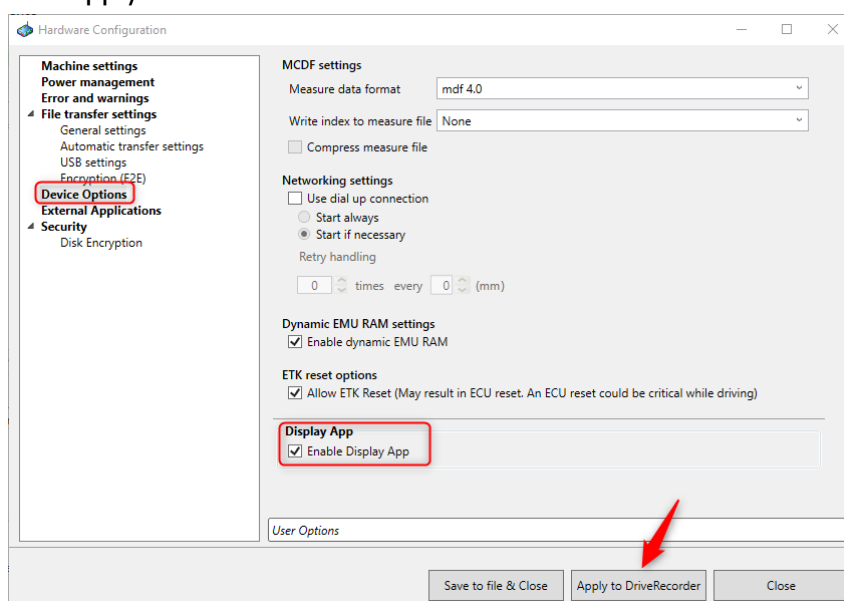
5. On the Drive Recorder, close all open windows.

6. Close the Remote Desktop session.

7. To connect from your local PC to the Drive Recorder via the Drive Recorder Configurator, click **File** › **Connect Device**.

    The Connect Device window opens.

    Under **Device** enter the IP address 192.168.40.228.

8. In the Drive Recorder Configurator, click **Tools** › **Quit Service Mode**.

    The driver for the Digitus adapter is now installed and will persist on your Drive Recorder system.

    You can now follow the steps in Enabling the Display App.

4   Enabling the Display App

You have performed the steps that are described in <u>Installing the Digitus Adapter Driver</u>. The Drive Recorder is in the active idle state.

To enable the Display App

1. To connect from your local PC to the Drive Recorder via the Drive Recorder Configurator, click **File** › **Connect Device**.

   The Connect Device window opens.

   Under **Device** enter the IP address 192.168.40.228.

2. Click **File** › **Open From Device** › **Open Hardware Configuration From Device**.

   The Hardware Configuration window opens.

3. To enable the Display App, click **Device Options,** select **Enable Display App** and click **Apply to Drive Recorder.**

Wait until the On LED is lit permanently. The Display App is now enabled and ready for use on your Drive Recorder.

5   Adjusting the Xenarc Monitor Settings

To adapt the Xenarc screen settings

1. Connect the Xenarc monitor power cable. This is either the AC Adapter (ACA-M12) or the Cigarette Lighter Car Adapter (CLA-M12)).
2. Set the **OSD Timeout** to to **Off**.

3. Set the time for automatic monitor shutdown.
   You can set the time between 15 minutes and 120 minutes. The maximum option is recommended.
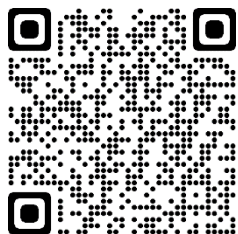
6   Requirements for Operation

– Before activating the Drive Recorder, make the following connections:

- Connect the USB 3.0 connector of the Digitus USB 3.0 to HDMI Adapter always to the same USB 3.0 port that was used on the ES820 Drive Recorder when the driver has been installed and the Display App has first been enabled. Otherwise the Display App may fail to start.
- Connect the USB 2.0 connector of the Xenarc monitor always to the same ES820 Drive Recorder USB 2.0 port that was used when the Display App has first been enabled.

– Do not unplug the Digitus USB 3.0 to HDMI Adapter while the Display App is running. If you did and the Display App is not visible anymore, reboot the ES820 Drive Recorder with the Digitus USB 3.0 to HDMI Adapter connected to the initial USB 3.0 port.

7   Contact Information

Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the website: www.etas.com/hotlines

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