

User Manual

DLT-SA6100

Screen Blanking Solution

**IMPORTANT:**

For safe and proper use, follow these instructions.
Keep them for future reference.

Manual Version

Manual version: 1.10

Completed on: February 13, 2020

Manual revision history:

Version	Date	Manual modifications
V1.00	March 28, 2019	First manual creation
V1.10	February 13, 2020	Description of onboard solution added. Manual layout modified.

Copyright & Disclaimer

This document and the software and hardware included with this product are copyrighted 2019-2020 by Advantech Co., Ltd. All rights are reserved. This document is intended for reference purposes only. All product specifications are subject to change without notice. Advantech Co., Ltd. reserves the right to make improvements in this document in the products described in this document at any time without notice. No part of this document may be reproduced in any form or by any means, electronic, photocopying, recording, translating, transmitting or otherwise, without prior written permission of Advantech Co., Ltd. Information provided in this document is intended to be accurate and reliable. However, Advantech Co., Ltd. assumes no responsibility for its use, nor for any infringements of the rights of third parties, which may result from its use.

Advantech Co., Ltd. assumes no liability for technical inaccuracies, typographic errors or faults in this documentation. Advantech Co., Ltd. also assumes no liability for damages caused directly or indirectly by the delivery, performance or usage of this material.

Note regarding all links and website content included in this document:

Advantech Co., Ltd. is not responsible for the accessibility of the websites and for the content of external links contained in this document. The content and accessibility of the linked websites are the sole responsibility of their operators.

Acknowledgements

The software and hardware designations as well as the brand names used in this documentation are in most cases also registered trademarks and are subject to the international law (trademark, brand and patent-protection laws). All product names or trademarks are properties of their respective owners.

Windows® is a registered trademark of Microsoft Corporation in the United States (US) and other countries.

RAM® and RAM Mount™ are both trademarks of National Products Inc., 1205 S. Orr Street, Seattle, WA 98108.

Manufacturer

Advantech Co., Ltd.

No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.

Initial Inspection

NOTE *Only valid for the DLT-SA6100 Sensor Stick product version.*



Before setting up the system, check that the item listed below is included and in good condition. If the item does not accord with the table, please contact your dealer immediately.

- DLT-SA6100 Screen Blanking Solution Quick Start Guide including Safety Notes
- DLT-SA6100 Sensor Stick

Technical Customer Support

Contact your distributor, sales representative, or an Advantech Service Center for technical support.

Please have the following information ready:

- Product name
- Serial number
- Description of your peripheral attachments
- Description of your software (operating system, application software, etc.)
- The exact wording of any error messages
- A complete description of the problem

Find the contact data of our Global Advantech Service Centers on our website:

<http://erma.advantech.com>

A Message to the Customer

We want you to get the best performance possible from your products. If you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone.

Please consult this manual first. If you still cannot find the answer, gather all the information or questions that apply to your problem, and with the product close at hand, call your dealer. Our dealers are well trained and ready to give you the support you need to get the most from your Advantech products. In fact, most problems reported are minor and can be easily solved over the phone.

In addition, free technical support is available from Advantech engineers every business day. We are always ready to give advice about application requirements or specific information on the installation and operation of any of our products.

Contents

1. Introduction	7
1.1. About the DLT-SA6100 Manuals	8
1.1.1. Manuals Available	8
1.1.2. Abbreviations Used in the Manuals	8
1.1.3. Design Elements Used in the Manuals	9
1.1.4. Text Formatting Conventions	10
1.2. DLT-SA6100 Product Versions Described	11
2. Safety Chapter	12
2.1. General Safety Notes	13
2.1.1. Test the System Prior to Live Use	13
2.1.2. Safety during Ongoing Work Operations	13
2.2. Safety Notes for the Sensor Stick Version	14
2.2.1. Observe when Getting Started	14
2.2.2. Do not Use any Intermediate or Extension Cables	14
2.2.3. Protect the Sensor Stick against Unauthorized Removal	14
2.2.4. Notes for ADLoG VMTs	14
2.2.5. Safety during Ongoing Work Operations	15
2.2.6. Regular Maintenance Work	15
3. Functional Description	16
3.1. Intended Use	17
3.2. Functional Description	17
3.2.1. On-Board Solution	17
3.2.2. Sensor Stick Solution	17
3.3. Area of Application	18
3.3.1. DLT-SA6100 Screen Blanking Solution on ADLoG VMTs	19
3.4. Notes for the Sensor Stick Version	19
3.5. Operating Systems Supported	20
3.6. Mount, Operate and Service the Device Correctly	20
4. Technical Data	21
4.1. Technical Data DLT-SA6100 Sensor Stick	22
5. Initial Start-up	23
5.1. On-Board Version: Overview of Start-Up Steps	24
5.2. Sensor Stick Version: Overview of Start-Up Steps	25
5.2.1. Connect the DLT-SA6100 Sensor Stick	25
5.2.2. Notes for ADLoG VMTs	26

6. Software Download and Installation	27
6.1. General Notes	28
6.1.1. Admin Rights Required	28
6.1.2. Information on WinEmbStd7 Security Checkbox	28
6.2. Software Download	28
6.3. Start Installation	29
6.4. After Installation: Application is Active	32
7. Configuration and System Test	33
7.1. VMT-Specific Modification Required	34
7.2. ADLoG Screen Blanking Config Tool	34
7.2.1. Sensor Settings: Sensitivity Configuration	35
7.2.2. Display Settings	36
7.3. System Test Prior to Live Use	37
7.4. Roll-Out Across Multiple Terminals	37
8. Repairs, Modifications	38
8.1. Manufacturer and Authorized Service Center	39
9. Maintenance	40
9.1. Regular Inspection and Maintenance	41
10. List of Figures	42

1. Introduction

1.1. About the DLT-SA6100 Manuals

NOTE *Pay attention to the DLT-SA6100 manuals because they help avoid hazards, and reduce repair costs and downtimes.*



Keep the manuals for future use.

*Please contact Advantech if you require additional information or clarification. You can find the contact address in manual section **Technical Customer Support**.*

The latest versions of our manuals are available at our websites:

www.advantech.com

www.advantech-service-iot.eu

1.1.1. Manuals Available

Manual type	Contents	For target group	Availability
Startup Manual	First commissioning	Skilled personnel	Printed, enclosed with the DLT-SA6100 Sensor Stick
User Manual	Complete operating instructions	Skilled personnel	PDF file at our websites

1.1.2. Abbreviations Used in the Manuals

Term	Abbreviation
DLT-SA6100 Screen Blanking Solution	DLT-SA6100
MS Windows 10 IoT Enterprise	Win10IoTEnt
MS Windows 7 Pro	Win7Pro
MS Windows Embedded Standard 7 with Service Pack 1	WES7
MS Windows Embedded 8.1 Industry Pro	Win8.1IndPro
MS Windows Embedded 8 Standard	WinEmb8Std
Operating System	OS
Vehicle Mounted Terminal	VMT

1.1.3. Design Elements Used in the Manuals

<Signal word>



Damage to persons

Signal word **DANGER** means that death or severe bodily injury will occur if this information is not observed.

Signal word **WARNING** means that death or severe bodily injury can occur if this information is not observed.

Signal word **CAUTION** means that slight bodily injury can occur if this information is not observed.

NOTICE Prevent system malfunction and property damage

Information about possible property damage to avoid damaging hardware or losing data

NOTE Notes provide optional additional information



1.1.4. Text Formatting Conventions

Subject	Formatting	Example
Lists	Bullet points	<ul style="list-style-type: none"> • Part 1 • Part 2
Instructions	Numbers	<ol style="list-style-type: none"> 1. Copy file ... 2. Rename file ...
Product names	Normal, not highlighted	Software MDevice is a setup tool for ...
Buttons in software dialogues	Bold	With button Next ...
Texts, parameters in software dialogues	Bold	Parameter setting ID-Test should be ...
Placeholder for a variable	<x> value in angle brackets	Value <x> depends on ...
Syntax, Strings	Courier New Size 11	The AT prefix must be set.
Keyboard keys	In capital letters, sequence with +	CTRL + ALT + DEL
Cross reference to other manual chapters	Text in <i>italics</i> , <u>underlined</u>	Please refer to manual section <u>1.1 Examples</u>
Program files, file names, directories	In quotation marks	File "quectel.exe" ... In directory "C:/Program Files"
Links	Underlined, blue	Website https://advantech.eu

1.2. DLT-SA6100 Product Versions Described

This manual describes the following DLT-SA6100 product versions:

Part No	DLT-SA6100 Screen Blanking	Software version	Available for
DLT-SA6100-0000	Sensor technology on USB-Stick	V2.0.0	DLT-V72 Series DLT-V83 Series DLT-V6210 DLT-V4108 DLT-M8110 Docking Station
9768LTBO000	Sensor technology via On-Board module	V2.0.0	DLT-V72 Facelift Terminals

2. Safety Chapter

2.1. General Safety Notes

WARNING



Risk of accidents; serious and potentially fatal injury possible. It is essential to read and follow the instructions in this safety chapter.

1. *Read and observe these safety instructions before commissioning and using the DLT-SA6100 Screen Blanking Solution. This protects you and other persons and prevents damage to the equipment and to technical equipment in the surrounding environment.*

DLT-SA6100 Screen Blanking Solution is a support tool only; the obligation to exercise diligence when driving remains fully and at all times with the driver.

DLT-SA6100 Screen Blanking Solution:

- Does not replace the requirement of the driver to exercise diligence.
- Does not replace the requirement of the driver to observe road traffic regulations, accident prevention regulations and company safety guidelines.

Driver instruction is required

Users of DLT-SA6100 Screen Blanking Solution must be instructed by skilled personnel.

2.1.1. Test the System Prior to Live Use

For DLT-SA6100 Screen Blanking Solution to function, the system must be configured and tested for each VMT and the usage environment in question.

1. Configure the system using the “ADLoG Screen Blanking Config Tool” for each VMT.
2. Then test the screen blanking on each VMT in the actual usage environment.
3. Re-configure the system as necessary and re-test.

2.1.2. Safety during Ongoing Work Operations

In the event of malfunctions of the DLT-SA6100 Screen Blanking Solution, the driver is not permitted to be distracted by the screen display.

2.2. Safety Notes for the Sensor Stick Version

2.2.1. Observe when Getting Started

Implement the following measures to ensure that the **DLT-SA6100 Sensor Stick** is securely plugged into the USB port at all times.

- Suitable USB ports for the DLT-SA6100 Sensor Stick
- For DLT-SA6100 to function safely and reliably, the DLT-SA6100 Sensor Stick must be connected to a USB port fulfilling a minimum of the following technical requirements:
- USB 2.0 port type A
- Vibration-proof (tested for resistance to vibration)
- High-retention

2.2.2. Do not Use Any Intermediate or Extension Cables

Plug the DLT-SA6100 Sensor Stick into a USB port without any intermediate or extension cables. If intermediate or extension cables are used, the DLT-SA6100 Screen Blanking Solution functionality is no longer guaranteed.

2.2.3. Protect the Sensor Stick against Unauthorized Removal

Use a USB port that is hard to access during work. This means that the DLT-SA6100 Sensor Stick is optimally protected against accidental unplugging.

2.2.4. Notes for ADLoG VMTs

1. Connect the DLT-SA6100 Sensor Stick to a USB port underneath the cable cover of the ADLoG VMT.
2. Do not use the service USB port underneath the antenna as the stick can be easily removed here. In addition, the antenna can no longer be closed due to the stick, meaning the IP protection rating of the VMT is no longer guaranteed.

For more details, see manual section [3.3.1 DLT-SA6100 Screen Blanking Solution on ADLoG VMTs](#).

To access the USB ports underneath the cable cover, this cable cover on the VMT must be opened and closed correctly.

Please observe:

1. Work on the ADLoG VMT is only permitted to be performed by adequately qualified, skilled personnel
2. Follow the instructions in the relevant ADLoG VMT manual.

2.2.5. Safety during Ongoing Work Operations

In the event of malfunctions of the DLT-SA6100 Screen Blanking Solution, the driver is not permitted to be distracted by the screen display.

1. Never unplug the DLT-SA6100 Sensor Stick during travel.
2. Do not delete, modify or close the associated software application, otherwise the screen blanking will no longer be functional.

Reason for this requirement: If the DLT-SA6100 Sensor Stick becomes loose in the USB port, the sensors integrated into the stick will no longer detect whether or not the vehicle is stationary or moving. Blanking is no longer guaranteed, and the driver may be distracted from driving.

Most ADLoG VMTs are equipped with suitable USB ports which are located underneath the cable cover on the devices. For more details, see manual section [3.3.1 DLT-SA6100 Screen Blanking Solution on ADLoG VMTs](#).

2.2.6. Regular Maintenance Work

VMTs are subjected to high loads due to vibration and shocks. The DLT-SA6100 Sensor Stick is designed especially for this usage.

However, the DLT-SA6100 Sensor Stick may loosen in some circumstances, meaning functionality may be restricted.

1. Carry out checks on a regular basis (depending on the load and environmental conditions, e.g. weekly, monthly, etc.) to ensure that the DLT-SA6100 Sensor Stick is securely fixed in the USB port.

3. Functional Description

3.1. Intended Use

DLT-SA6100 Screen Blanking Solution is used to overlay the display of VMTs with a black or a customer-defined static image as soon as the vehicle is in motion. The driver is not distracted, and the running application can no longer be used. Once the vehicle is stationary again, the display is reactivated automatically.

3.2. Functional Description

3.2.1. On-Board Solution

With the DLT-SA6100 On-Board solution, the VMT has an extension board with an integrated sensor that registers the vehicle movement or vehicle standstill.

In addition to the extension board, the "ADLoG Screen Blanking Software" is required.

NOTE



The DLT-SA6100 On-Board solution is currently only available for the DLT-V72 facelift terminals (date: Jan 2020). The extension board can only be installed in the VMT by the manufacturer.

3.2.2. Sensor Stick Solution

With the Sensor Stick solution, the sensor that registers vehicle movement or vehicle standstill is integrated on a USB stick. This USB stick must be connected to a suitable USB interface on the VMT.

In addition to the USB stick, the "ADLoG Screen Blanking Software" is required.

This solution is currently available for all VMTs described in manual section [3.3 Area of Application](#).

3.3. Area of Application

DLT-SA6100 Screen Blanking Solution provides add-on functionality for VMTs (data communication terminals) that are used in commercial environments, such as logistics, warehousing and production. Any other or additional use beyond this is deemed improper. The user/operator of the VMT and the DLT-SA6100 Screen Blanking Solution system shall be solely liable for any damage resulting from improper use. This also applies to unauthorized modifications made to the system.

DLT-SA6100 Screen Blanking Solution is permitted to be used on the company site, but not on public streets and in public locations.

For DLT-SA6100 Screen Blanking Solution, the corresponding defined "Intended use" of the VMT in question shall apply.

DLT-SA6100 Screen Blanking Solution is only permitted to be operated as follows:

- In accordance with the defined, intended use.
- In the environmental conditions specified for the VMT in question (temperature, vibration, etc.).
- In accordance with the intended use of the VMT.
- In compliance with the documentation and here in particular the safety and warning notices for the VMT.

Additionally, only valid for the Sensor Stick product version:

- Within the usage limits of the DLT-SA6100 Sensor Stick, in other words at ambient temperatures between -40°C and +80°C (~ -40 °F to 176 °F).

DLT-SA6100 Screen Blanking Solution:

- Is not approved for use in areas at risk of explosion.
- Is not approved for use in life-support systems or safety-critical systems where a system malfunction can lead to the direct or indirect endangerment of human life.

The DLT-SA6100 Screen Blanking Solution modules have been designed and built according to modern technology standards and accepted safety regulations. Improper use can result in injury to persons and damage to property, however, meaning that the following points must be observed:

- Correct transport, storage, commissioning and maintenance
- Operation by trained personnel
- The owner/operator commitments with regards to safety (accident prevention regulations, occupational safety) must be observed.

3.3.1. DLT-SA6100 Screen Blanking Solution on ADLoG VMTs

The DLT-SA6100 Screen Blanking Solution functionality has been tested on the following ADLoG VMTs:

- DLT-V72 Series
- DLT-V83 Series
- DLT-V6210
- DLT-V4108
- DLT-M8110 Docking Station

3.4. Notes for the Sensor Stick Version

The DLT-SA6100 Sensor Stick has been connected in each case for the tests to a USB port underneath the cable cover on the ADLoG VMT.

These USB ports fulfill the following technical requirements:

- USB 2.0 port type A
- Vibration-proof (tested for resistance to vibration)
- High-retention

NOTE



Advantech Co., Ltd. cannot guarantee the fault-free function of the DLT-SA6100 Screen Blanking Solution on devices from other manufacturers as the technical specifications for these devices and the USB ports installed in these devices are not known and cannot be tested. Advantech Co., Ltd. shall not accept any liability for damage occurring due to the faulty functioning of the DLT-SA6100 Screen Blanking Solution on devices from other manufacturers.



Figure 3.1: DLT-SA6100 Sensor Stick connected to ADLoG VMT

3.5. Operating Systems Supported

- Win10IoTEnt
- Win7Pro
- WES7
- Win8.1IndPro
- WinEmb8Std

3.6. Mount, Operate and Service the Device Correctly

DLT-SA6100 Screen Blanking Solution was designed and built according to modern technology and accepted safety regulations.

However, the operation of the DLT-SA6100 Screen Blanking Solution can endanger personnel or third parties and cause damage to the device and other material assets when, for example, the device is:

- Installed incorrectly or configured improperly.
- Operated by untrained or uninstructed personnel.
- Improperly operated and maintained.
- Not used as intended.

The owner/operator commitments with regards to safety (accident prevention regulations, occupational safety) are to be followed.

4. Technical Data



4.1. Technical Data DLT-SA6100 Sensor Stick



Figure 4.1: DLT-SA6100 Sensor Stick with USB plug cover

- Operating temperature: -40 °C to +80 °C (~ -40 °F to 176 °F)
- USB type 2.0
- Power consumption (rating): 5 V, 0.25 A

Dimensions in mm:

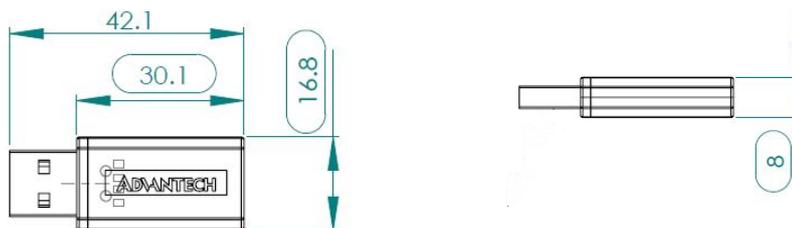


Figure 4.2: Dimensions DLT-SA6100 Sensor Stick

5. Initial Start-up

5.1. On-Board Version: Overview of Start-Up Steps

1. Download ADLoG Screen Blanking software from Advantech website.
2. Install ADLoG Screen Blanking software on the VMT.
3. Configure ADLoG Screen Blanking system.
4. Test the complete DLT-SA6100 Screen Blanking Solution system.

For details, please observe the following manual sections:

- Chapter [6 Software Download and Installation](#)
- Chapter [7 Configuration and System Test](#)

5.2. Sensor Stick Version: Overview of Start-Up Steps

1. Connect the DLT-SA6100 Sensor Stick to a suitable USB port of the VMT.
2. Download ADLoG Screen Blanking software from Advantech website.
3. Install ADLoG Screen Blanking software on the VMT.
4. Configure ADLoG Screen Blanking system.
5. Test the complete DLT-SA6100 Screen Blanking Solution system.

Find details about steps 2,3,4, and 5 in these manual sections:

- Chapter [6 Software Download and Installation](#)
- Chapter [7 Configuration and System Test](#)

5.2.1. Connect the DLT-SA6100 Sensor Stick

1. Connect the DLT-SA6100 Sensor Stick to a suitable USB port of the VMT.
2. Plug the DLT-SA6100 Sensor Stick into a USB port without any intermediate or extension cables. If intermediate or extension cables are used, the DLT-SA6100 Screen Blanking Solution functionality is no longer guaranteed.
3. Use a USB port that is hard to access during work. This means that the DLT-SA6100 Sensor Stick is optimally protected against accidental unplugging.
4. Ensure that the DLT-SA6100 Sensor Stick is securely plugged into the USB port at all times.

WARNING



Risk of accident because the DLT-SA6100 Sensor Stick is loose during ongoing operation or the stick is unplugged.

For DLT-SA6100 Screen Blanking Solution to function safely and reliably, the DLT-SA6100 Sensor Stick must be connected to a USB port fulfilling a minimum of the following technical requirements:

1. *USB 2.0 port type A*
2. *Vibration-proof (tested for resistance to vibration)*
3. *High-retention*

Reason for this requirement: If the DLT-SA6100 Sensor Stick becomes loose in the USB port, the sensors integrated into the stick will no longer detect whether or not the vehicle is stationary or moving. Blanking is no longer guaranteed, and the driver may be distracted from driving.

5.2.2. Notes for ADLoG VMTs

Connect the DLT-SA6100 Sensor Stick to a USB port underneath the cable cover of the ADLoG VMT.

Do not use the service USB port underneath the antenna as the stick can be easily removed here. In addition, the antenna can no longer be closed due to the stick, meaning the IP protection rating of the VMT is no longer guaranteed.

To access the USB ports underneath the cable cover, this cable cover on the VMT must be opened and closed correctly.

Please note:

1. Work on the ADLoG VMT is only permitted to be performed by adequately qualified, skilled personnel:
2. Follow the instructions in the relevant ADLoG VMT manual.



Figure 5.1: Example ADLoG VMT: DLT-V83 with cable cover opened

6. Software Download and Installation



6.1. General Notes

6.1.1. Admin Rights Required

To install the DLT-SA6100 Screen Blanking Solution software, “admin” rights for the corresponding VMT are required.

DLT-SA6100 Screen Blanking Solution installations should only be performed by qualified, skilled personnel, such as IT administrators.

6.1.2. Information on WinEmbStd7 Security Checkbox

The DLT-SA6100 Screen Blanking Solution software is installed with menu guidance and provides the user with identical dialogs in all available operating systems.

Only WinEmbStd7 will display an additional **Windows Security** checkbox that must be accepted.

6.2. Software Download

To install and configure DLT-SA6100 Screen Blanking Solution, you need a software package which is available for download from Advantech website:

<https://cutt.ly/DLT-SA6100>



6.3. Start Installation

1. Close all other applications before starting setup.
2. In case of working with DLT-SA6100 Sensor Stick version: Please check if the Sensor Stick is properly installed.
3. Then double-click “ADLoG Screen Blanking 2.0.0 Setup.exe”.

The **Welcome** screen appears:

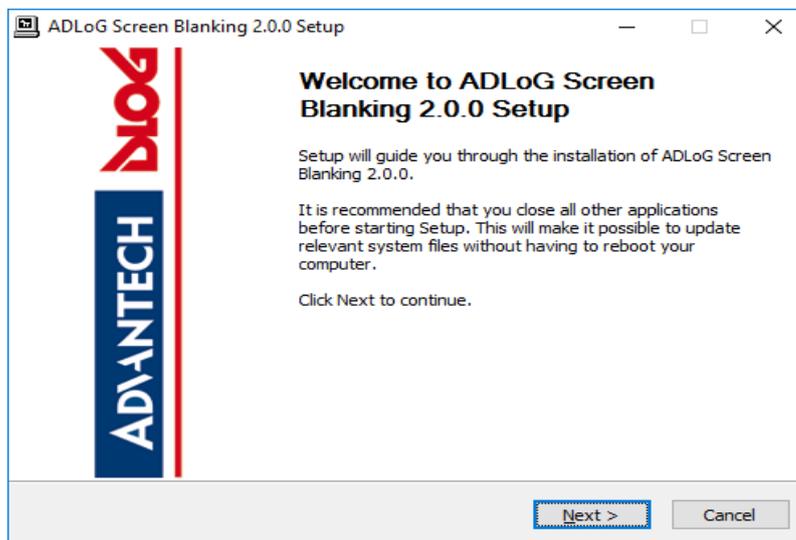


Figure 6.1: ADLoG Screen Blanking Setup – Welcome screen

4. Confirm with **Next**.
5. Choose the start menu folder.

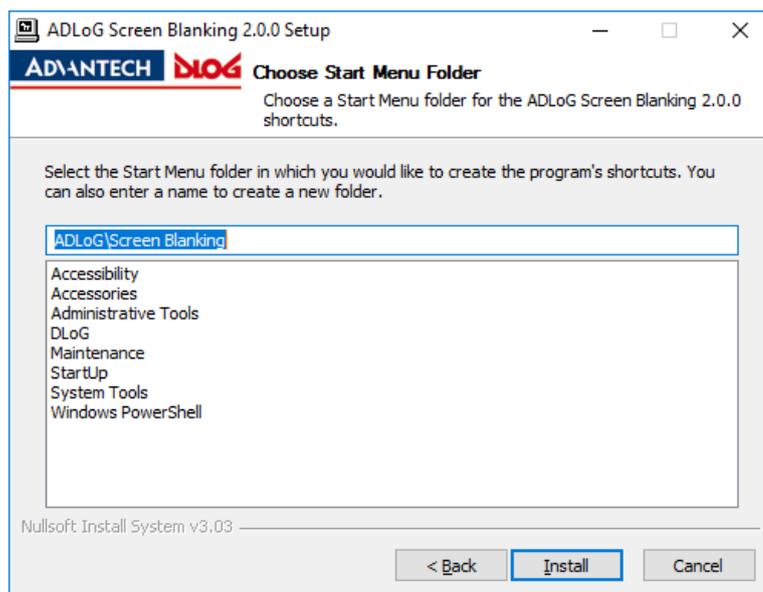


Figure 6.2: ADLoG Screen Blanking Setup – Start menu folder

6. Confirm with **Install**.

7. Choose the installation directory.

NOTICE **Prevent system malfunction and property damage**

The suggested installation directory "C:\Program Files\ADLoG\ScreenBlanking" must be used to ensure correct functionality.

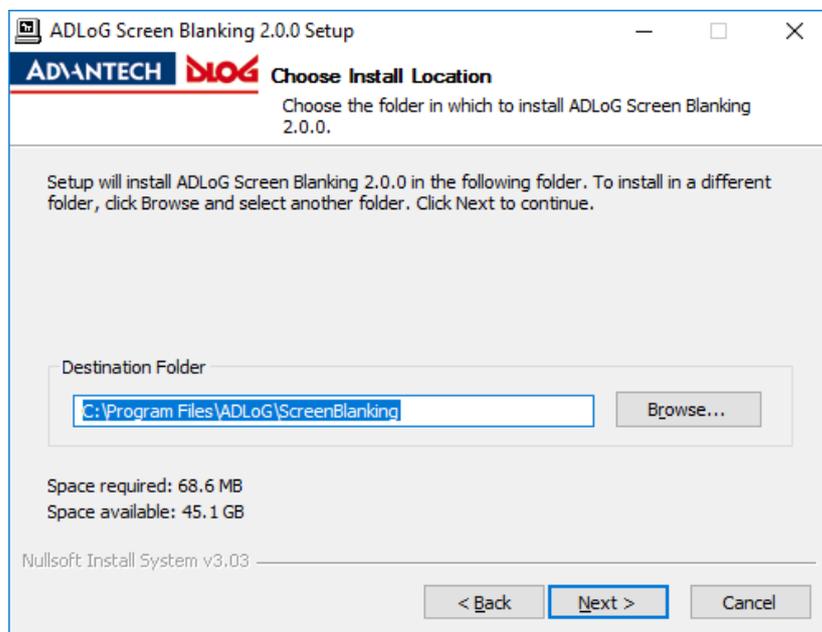


Figure 6.3: ADLoG Screen Blanking Setup – Confirm installation location

8. Accept the suggested installation location.

9. Confirm with **Next**.

The installation progress is displayed in an information dialog:

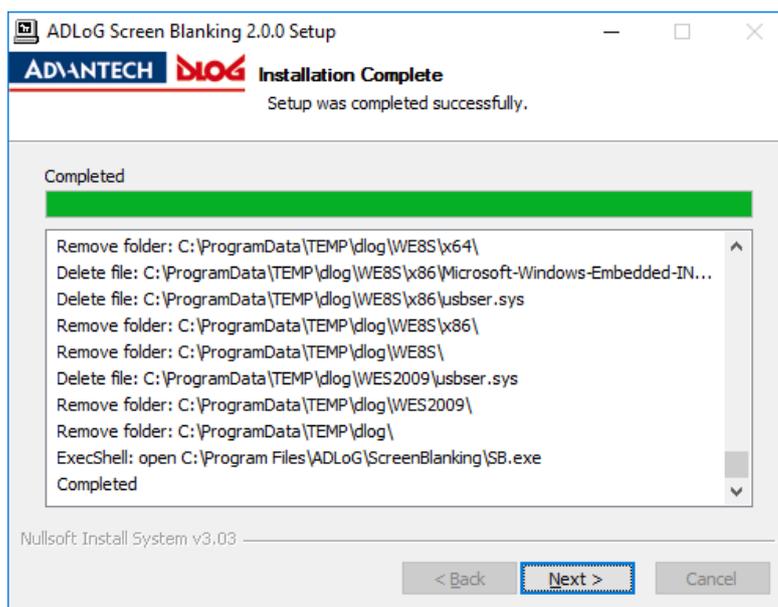


Figure 6.4: ADLoG Screen Blanking Setup completed

10. Click on **Next**.
11. Select check-box **Start ADLoG Screen Blanking Configuration Tool** (to immediately open the configuration dialog).
12. Confirm with **Finish**.

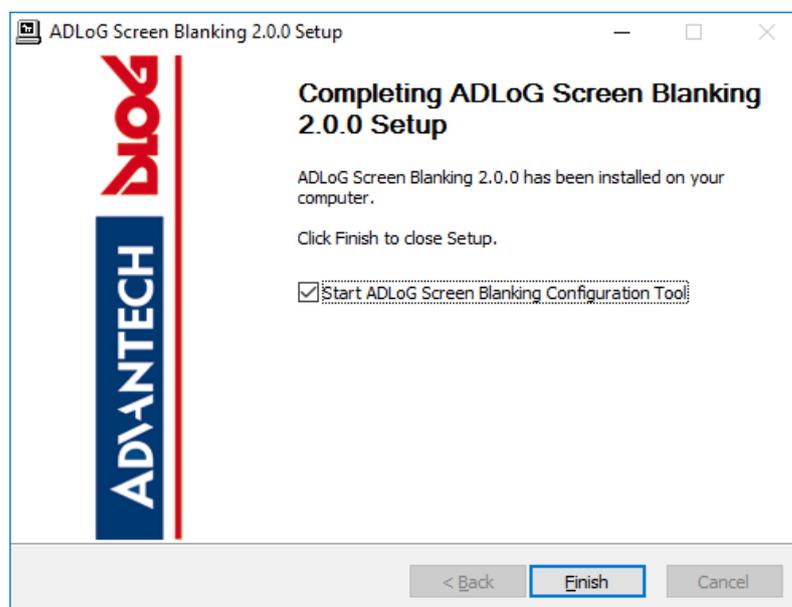


Figure 6.5: ADLoG Screen Blanking Setup finished

6.4. After Installation: Application is Active

Following successful installation, the **ADLoG Screen Blanking** software is activated immediately. In addition, the ADLoG Screen Blanking software application is automatically copied to the Windows-Auto start group during installation and is activated each time the computer is booted up.

In the **Start** menu, the ADLoG Screen Blanking software and the ADLoG Screen Blanking Config Tool can be started manually.

7. Configuration and System Test

7.1. VMT-Specific Modification Required

DLT-SA6100 Screen Blanking Solution must be configured specifically for each VMT as the automatic screen blanking depends on the vehicle type and the conditions of use of the vehicle, for example.

If no VMT-specific configuration is carried out, the following factory-set default settings will apply:

- Sensitivity: medium
- Logo: ADLoG Logo
- Show time is **ON**

7.2. ADLoG Screen Blanking Config Tool

Overview of the configuration process:

1. Start the ADLoG Screen Blanking Config Tool.
2. Implement the settings.
3. Close the ADLoG Screen Blanking Config Tool using **Save**.

The configuration is saved to the "cfgfile.json" file.

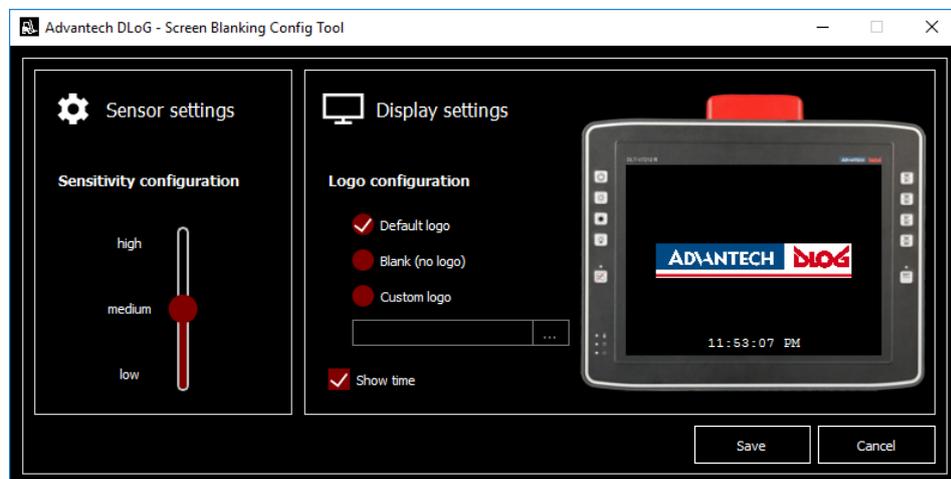


Figure 7.1: ADLoG Screen Blanking Config Tool

7.2.1. Sensor Settings: Sensitivity Configuration

The Sensitivity must be defined here so that DLT-SA6100 Screen Blanking Solution detects whether or not the vehicle is in motion or stationary. The sliding controller provides five setting levels: **high** / **medium** / **low** and two intermediate values (between **high & medium** and between **medium & low**).

The following criteria determine which value should be set:

- Condition and evenness of the ground on which the vehicle is moving.
- Type of vehicle: different vibration strength of electric vehicles, petrol vehicles, etc.
- Where is the VMT fitted on the vehicle? Vibrations vary depending on the mounting location (console, under the roof, etc.).
- What has been used to mount the VMT to the vehicle? Vibrations vary depending on the mounting type (long or short RAM mounts, ADLoG mounting bracket, etc.).

NOTE



The Sensitivity level that needs to be set for the VMT depends on a wide range of criteria and must be determined on a case by case basis.

*The following information on the **Sensitivity** setting can therefore be regarded as non-binding recommendations.*

High	}	If the vehicle is smooth running (e.g. electric vehicles) and the ground is relatively level.
Mid High		
Medium		
Medium Low		
Low		

High	}	If the vehicle is vibrating heavily (e.g. petrol vehicles) and the ground is uneven.
Mid High		
Medium		
Medium Low		
Low		

7.2.2. Display Settings

Logo configuration

Whether or not a graphic is displayed when the screen is blanked is defined here.

Default logo	The ADLoG logo will be displayed on the blanked screen.
Blank (no logo)	The blanked display is black.
Custom logo	<p>A customer logo will be displayed on the blanked screen. The logo can be selected by choosing a file. Possible file formats: png, jpg, gif, bmp. The display size of the logo is automatically adjusted to the display size by the Screen Blanking software. The logo is scaled – with fixed aspect ratio – so that the available display area is optimally filled. A frame is only left clear for the optional display of the time.</p>

Show time

This setting specifies whether or not the current time is to be shown on the blanked display.

The time format corresponds to the MS Windows country settings for the ADLoG VMT in question.

Example for the US: hh:mm:ss / AM/PM

7.3. System Test Prior to Live Use

To ensure that the configuration of the DLT-SA6100 Screen Blanking Solution was successful, the blanking must be tested for each VMT in the actual usage environment.

WARNING



Risk of accident as the DLT-SA6100 Screen Blanking Solution configuration is not functioning in the usage environment.

If the configuration carried out is not appropriate for the usage environment, the blanking function cannot be guaranteed and the driver may be distracted.

- 1. Test the blanking function in the actual usage environment before putting it into operation.*
- 2. Re-configure the system as necessary and re-test.*

7.4. Roll-Out Across Multiple Terminals

A configuration created and stored using the ADLoG Screen Blanking Config Tool can be copied and used on other VMTs.

This is only appropriate if the **Sensitivity** settings are suitable for multiple vehicles.

For example, copy the generated configuration file "cfgfile.json" via USB to other VMTs (to the corresponding installation path, e.g. "C:\Program Files\ADLoG\ScreenBlanking")

If a customer logo is to be displayed, the logo also needs to be copied to this path.

8. Repairs, Modifications

8.1. **Manufacturer and Authorized Service Center**

Only the manufacturer and its authorized service centers are permitted to perform the following measures:

- Firmware updates
- Repairs and modifications to the DLT-SA6100 Sensor Stick

The legal warranty shall apply. It expires if the customer performs measures on the device that are only permitted to be performed by the manufacturer and its authorized Service Centers.

Software updates

Download of ADLoG Screen Blanking Solution software available on download center can be done by customer.

9. Maintenance

9.1. Regular Inspection and Maintenance

Only valid for the Sensor Stick product version.

VMTs are subjected to high loads due to vibration and shocks. The DLT-SA6100 Sensor Stick is designed especially for this usage.

However, the DLT-SA6100 Sensor Stick may loosen in some circumstances, meaning functionality may be restricted.

Perform regular checks that the DLT-SA6100 Sensor Stick is securely fixed in position.

WARNING



Risk of accident if the DLT-SA6100 Sensor Stick becomes loose during ongoing operation.

If the DLT-SA6100 Sensor Stick becomes loose, the sensors will no longer detect whether or not the vehicle is stationary or moving. Blanking is no longer guaranteed in this situation, and the driver may be distracted from driving.

- 1. Carry out checks on a regular basis (depending on the load and environmental conditions, e.g. once a month) to ensure that the DLT-SA6100 Sensor Stick is securely fixed in the USB port.*

10. List of Figures



Figure 3.1: DLT-SA6100 Sensor Stick connected to ADLoG VMT	19
Figure 4.1: DLT-SA6100 Sensor Stick with USB plug cover	22
Figure 4.2: Dimensions DLT-SA6100 Sensor Stick.....	22
Figure 5.1: Example ADLoG VMT: DLT-V83 with cable cover opened.....	26
Figure 6.1: ADLoG Screen Blanking Setup – Welcome screen.....	29
Figure 6.2: ADLoG Screen Blanking Setup – Start menu folder	29
Figure 6.3: ADLoG Screen Blanking Setup – Confirm installation location	30
Figure 6.4: ADLoG Screen Blanking Setup completed.....	31
Figure 6.5: ADLoG Screen Blanking Setup finished.....	31
Figure 7.1: ADLoG Screen Blanking Config Tool	34