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Windar Control Center v1.2.1

User Guide

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1. Introduction

This document describes the functionality of the Windar Control Center: a web interface for monitoring the status and various attributes of the Windar Photonics LiDAR units.

2. Application and Reference Documents

Related tools and information on the Windar Photonics LiDAR:

WindInterface	WindInterface user manual v1.0.pdf
WindEYE and WindVision product specification	WindEYE and WindVision production specification v3.1.pdf

3. Acronyms and definitions

LiDAR	Light Detection and Ranging
WCC	Windar Control Center
WCC Address	The web address given to you for accessing the WCC (by email).
WPHO	Windar Photonics
LiDAR DB	Database internal to WPHO that contains information about the company's LiDAR units.

4. Compatibility

The following browsers are supported by the WCC:

- Firefox >=51.0 or its compatible forks (such as GNU IceCat)
- Chromium >=68 or its compatible forks (such as Google Chrome)

5. Account Management

Accounts for accessing the system are available via a system of invitations.

WINDAR PHOTONICS

[Read the manual](#)

[Log in](#) [1 Set password](#)

Log in

You need to log in to see this page.

Email*

Password*

[Log in](#)

[1 Forgot your password?](#)

Figure 1v.1.2.0: Log-in view

5.1 Changing your password

If you have lost your password or simply wish to change it:

- From a logged-out state and click *Set password* (**Point 1** - *Figure 1v.1.2.0: Log-in view*) and enter your e-mail.
- If your e-mail exists in the system, you will be sent a link to a page through which you may set a new password for your account.

6. View: Overview

Once logged in, you will be redirected to the Overview.

The screenshot shows the Windar Photonics Control Center Overview screen. The header includes the Windar Photonics logo, a welcome message, and navigation links. Below the header is a table of units. The table has columns for WID, Serial Number, Status, Uptime, Last Seen, Firmware, IP, and Country. The units are color-coded: green for online and orange for offline. A tooltip is visible over one of the units, indicating 'Open in new tab' and 'Open in WindInterface'.

WID	Serial Number	Status	Uptime	Last Seen	Firmware	IP	Country
		Customer	035 21:11:12	2019-05-01 01:22:45	B1.2		
		Customer	010 07:24:57	2019-05-01 01:24:59	B1.2		
		Customer	063 20:29:39	2019-05-01 01:24:53	B1.2		
		Customer	052 20:19:04	2019-04-30 22:20:18	B1.2		
		Customer	000 13:33:44	2019-05-01 00:28:22	B1.2		
		Claim/Nonconformance	000 08:46:31	2019-04-26 09:50:58	B1.2		

Figure 2: Overview screen

This page reloads its contents automatically.

- Reloading is paused while the user is interacting with the page (e.g. moves the mouse) to not interrupt their workflow. (Note: It is a known bug that automatic page refreshing is not paused while dragging and dropping with the mouse)
- The rate of reloading depends on user activity (i.e. if the page loses focus, refreshes are done less frequently)

6.1 View: Overview

The body of this page consists a table of LiDAR units which have appeared online during the past week.

- Which units are available depends on the user's location and role.
- The units are color-coded in relation to their operational status:
 - **Orange**: offline on your permitted VPN(s)
 - **Green**: online
 - Whether a unit is shown as online or offline depends on its presence on the VPN networks you have been given permission to monitor.

- The number shown in the unit count field (**Point 4 - Figure 2: Overview screen**) counts the number of displayed units.
- Every column has a filter field at the table's header.
 - Your view may have default filters enabled (configured by the WCC administrator). (**Point 8 - Figure 2: Overview screen**)
 - Use the "?"-icon at the top right corner (**Point 5 - Figure 2: Overview screen**) to learn about the filter syntax.
 - Filtering may be cleared with the "Clear filters" button at the top right corner (**Point 5 - Figure 2: Overview screen**).
 - You may reset to the default filters by clicking the Windar Photonics logo at the top. (**Point 1 - Figure 2: Overview screen**)
 - The table may be sorted by clicking on a column's title. (**Point 10 - Figure 2: Overview screen**)
 - Multiple filters may be combined per column by using **Ctrl+Left Click**. (**Point 7 - Figure 2: Overview screen**)
- Left clicking on a unit takes you to screen with more detailed information about the specific unit (See chapter 7)
- You may open the detailed view in a new tab by right clicking the unit and selecting "**Open in new tab**". (**Point 9 - Figure 2: Overview screen**)

6.2 Configuring the displayed columns

It is possible to add and remove columns from the view, as well as change their order.

To access the configuration use the *Configure this view* button (**Point 13 - Figure 2: Overview screen**). This will spawn a configuration window (*Figure 3: Overview configuration window*).

- You may enable and disable columns by toggling the checkbox next to their name.
- To reorder columns, drag them to the desired location by dragging-and-dropping them by the arrow on their left side.
- Which columns are available to you depends on your account's permissions.
- Leaving these settings to default (or resetting them – possible after having modified them) means that any administratively-added new columns will be automatically added to your view. Conversely, having a modified view means that you will have to check back for any new columns and add them manually.



Figure 3: Overview configuration window

6.3 Accessing a unit via the WindInterface

To access a unit in the WindInterface:

- Download and install the latest version of the WindInterface by using the WindInterface logo at the top right corner of the page. **(Point 11 - Figure 2: Overview screen)**
- Right click on the IP address of the unit that you wish to access it through and select "Open in WindInterface". **(Point 9 - Figure 2: Overview screen)**

6.4 Jumping to a unit

You may quickly search for and switch to the detailed view of a unit by using the search box at the top right corner of the screen **(Point 2 - Figure 2: Overview screen)**:

- You may either enter its Windar ID (e.g. 467), (part of) its Serial Number (e.g. 201705) or (part of) its distributor's or its owner's name
- Entering a complete Windar ID brings that search result to the top, allowing you to access it immediately by pressing Enter.

6.5 Service Status

The top right of the page displays three indicators regarding the service's status. (**Point 3** - *Figure 2: Overview screen*)

Mouse over the indicators for a short title:

-  **Connection to server** indicates your connectivity to the server. For example, if you disconnect from the VPN or if the server goes down, it will turn orange.
-  **Service status** is a catch-all indication of a number of server-related problems (e.g. The VPN is unresponsive, or some data collection is delayed). This means that (part of the) data you see below may not be getting properly updated.
-  **LiDAR DB connectivity** shows whether the WCC can access the LiDAR database, which is used for retrieving some of the displayed information.

The indicators are color-coded,

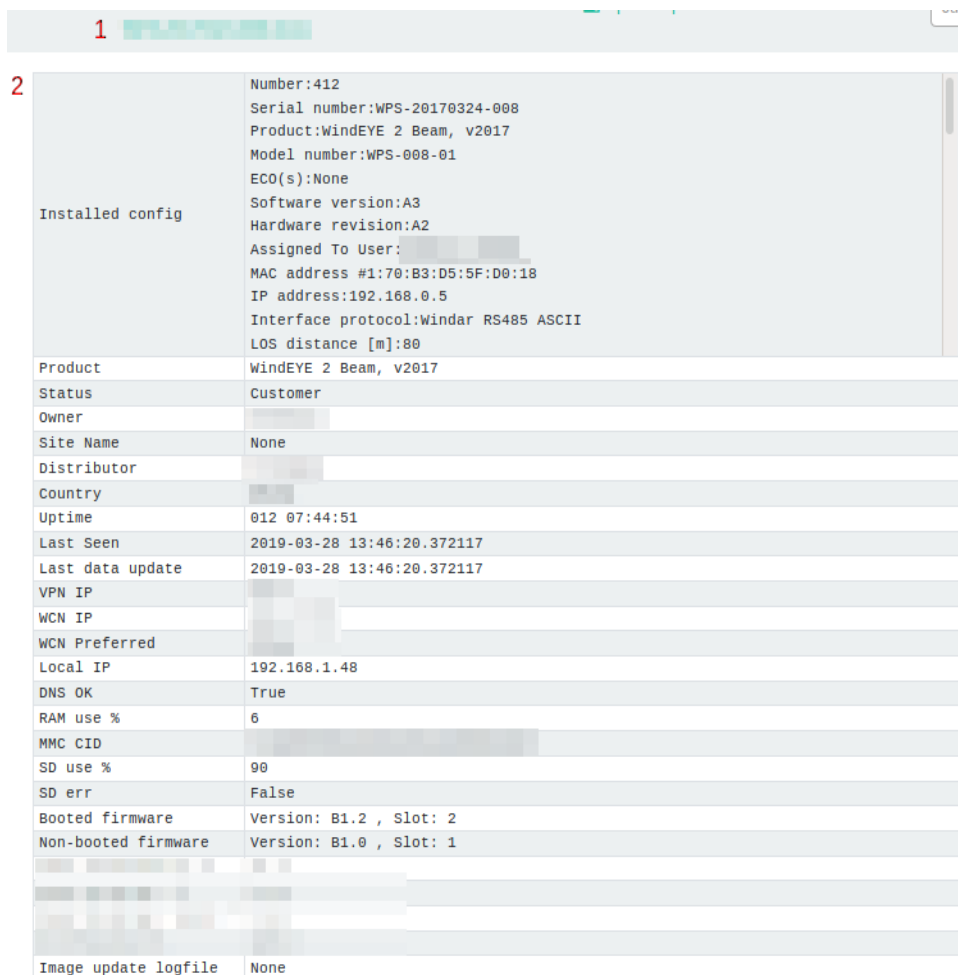
-  **Blue**: operational
-  **Orange**: dysfunctional
-  **Gray**: unknown (when connection is lost)

Note that all these indicators may switch state shortly after, or even before, the reason becomes evident in relation the unit's operational status in the unit overview list.

6.6 Session time-out

If your account gets disconnected by the server, the page will automatically request your credentials.

7. View: Unit Details



Number:412	
Serial number:WPS-20170324-008	
Product:WindEYE 2 Beam, v2017	
Model number:WPS-008-01	
ECO(s):None	
Software version:A3	
Hardware revision:A2	
Assigned To User:	
MAC address #1:70:B3:D5:5F:D0:18	
IP address:192.168.0.5	
Interface protocol:Windar RS485 ASCII	
LOS distance [m]:80	
Product	WindEYE 2 Beam, v2017
Status	Customer
Owner	
Site Name	None
Distributor	
Country	
Uptime	012 07:44:51
Last Seen	2019-03-28 13:46:20.372117
Last data update	2019-03-28 13:46:20.372117
VPN IP	
WCN IP	
WCN Preferred	
Local IP	192.168.1.48
DNS OK	True
RAM use %	6
MMC CID	
SD use %	90
SD err	False
Booted firmware	Version: B1.2 , Slot: 2
Non-booted firmware	Version: B1.0 , Slot: 1
Image update logfile	None

Figure 4: "Unit details" view

The header of the page displays the unit's Serial Number and Windar ID, using the same color-coding as in the "Unit List" view. (**Point 1** – Figure 3: Overview configuration window)

The body of this page consists of up to three sections depending on your access level:

- Details about the current unit (**Point 2** - Figure 3: Overview configuration window)

The unit status and contents in this page is automatically reloaded.