

VisionGuard
visualization software – CEAG emergency lighting

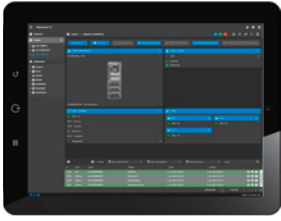
VisionGuard

For building managers who need to see more,
and see further



EATON

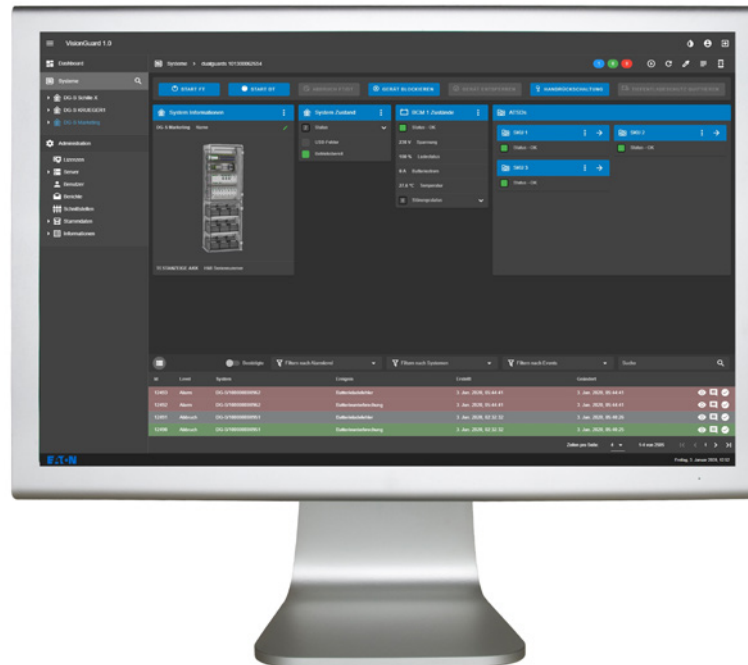
Powering Business Worldwide



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VisionGuard – a powerful visualization software with a new design



As the successor to our successful CGVision software, the powerful new visualization software VisionGuard offers state-of-the-art monitoring, control and configuration of DualGuard-S (DG-S) and monitoring and control of ZB-S central battery systems. Designed for all current Windows environments based on WIN10 or Windows Server 2016/2019, the software covers all common application types, from dedicated PC workstations to virtualized environments with remote access. The intelligent and user-friendly VisionGuard visualization software offers maximum reliability, even when it comes to controlling and monitoring large emergency lighting systems. Up to 500 individual DG-S or ZB-S emergency lighting systems with over a million light points can be monitored via a single control room monitor. Especially for larger buildings such as airports, universities, museums, sports and industrial facilities, this software is the ideal choice to ensure the optimized and cost-effective operation of emergency lighting systems. VisionGuard is also a powerful tool for small projects thanks to the user-friendly display of all status information, the extensive notification functions and the mobile application for tablets or smartphones.

Web-based client/server structure

VisionGuard is a modern web-based visualization software that relies on a streamlined and clutter-free design. During the development of VisionGuard, we focused on the essentials, namely to offer a design that's highly user-friendly, in line with the motto "less is more!" Such a user-friendly design is not only more effective, but also ensures that users are much more likely to accurately process information.

Versatile display

The responsive web design, which automatically adjusts to the display settings of the device in question, allows unrestricted use of the software across different display sizes and resolutions, on any smartphone or tablet. As a result, users don't have to commit to any particular display sizes or manufacturers.

Highly user-friendly

The VisionGuard display function (web client) supports all common web browsers, such as Chrome, Edge, Firefox, Safari, etc., so that the software can also be used with alternative operating systems such as iOS, Android or Linux.

In addition, this eliminates the need for dedicated special client software and minimizes cost and complexity by eliminating the need for IT specialists to maintain or support the system.

Fast and reliable

In addition to the advantages outlined above, the web-based design delivers maximum performance at high speed, including improved and optimized loading speeds. Contrary to other solutions that leave users waiting impatiently, the software comes with an integrated progress bar that indicates the remaining time for each type of action.

Secure and failsafe

Based on a sophisticated user account control (UAC) with four user roles, designed with different access permissions according to the latest cybersecurity guidelines, such as the use of strong passwords, the system offers the most advanced security mechanisms a software can bring. The high security standard was verified during development by a Cyber Security Center of Excellence test lab. The operation of the software via independent services in the background for individual software applications, such as database, e-mail service, etc. guarantees a very high level of reliability. An integrated Back Up and Restore function allows an extremely fast and easy recovery in case the PC hardware fails, or for moving to another system environment.

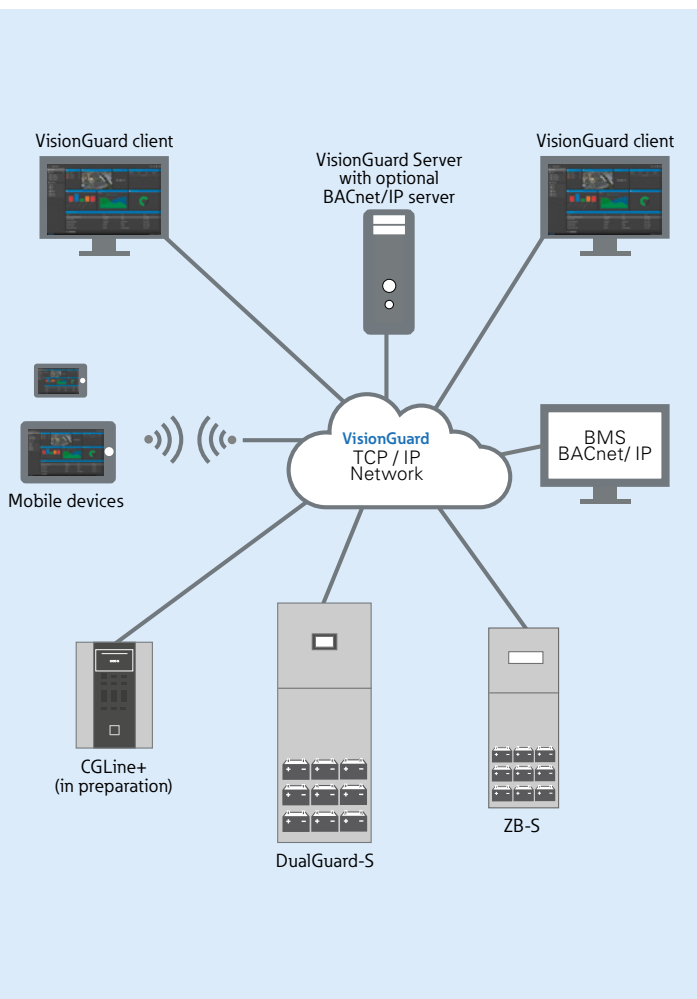
An Eaton secure-by-design solution



Complies with rigorous cybersecurity, process, requirements and testing standards

The main features of VisionGuard

VisionGuard – visualization software



VisionGuard – a modern client-server architecture

with optional BACnet/IP based BMS interface

VisionGuard's modern web-based client-server architecture meets all the requirements of today's Windows-based IT environments. This web-based client-server design is compatible with any of the browsers that are currently in use for PC workstations. This eliminates the need for any special proprietary client software, which would have to be installed separately and with special administrator rights. This saves time and the involvement of an IT specialist.

What's more, the responsive web design, which can be used with any standard browser, enables the use of mobile devices such as tablets or smartphones, running on any operating system (e.g. Android, iOS).

An optionally available BACnet/IP interface allows the connection of an external Building Management System (BMS) via the BACnet protocol. The BACnet interface provides numerous status messages and four analog battery values per DualGuard-S central battery system in the form of BACnet objects.

VisionGuard – a modern design

- A modern web-based design that provides a quick overview and is easy to use
- Customizable login page (background image)
- A modern dashboard starting page
- Clear and innovative presentation of system information by means of widgets (graphic window system)
- Responsive web design for different display sizes and resolutions for use with mobile devices such as tablets or smartphones
- The web-based design enables the use of VisionGuard with any operating system, such as Windows, Mac OS, iOS, Android or Linux





The benefits of using VisionGuard

- Multi-user operation: A web-based client/server architecture that can be accessed independently and in parallel from different workstations
- Use of standard web browser on the client PC, no special client software installation necessary
- Dongle-free software licensing
- Tiered versions, from 3 to 500 DualGuard-S (DG-S) or ZB-S emergency lighting systems
- State-of-the-art, web-based dashboard design with widgets (graphic window system)
- Responsive web-based design for different display sizes
- Optimized for Full HD (1920 x 1080 dpi)
- Full visualization, control and configuration (DG-S) down to the level of each system/luminaire
- User access control with four user roles (supervisor, administrator, power user and user)
- Detailed email function
- Advanced printing functions
- Backup & Restore menu, for quick and easy recovery in case of hardware failure
- Cyber security tested (EATON)
- Optional BACnet/IP interface for DG-S: This allows easy connection to an external building management system (BMS) via the BACnet protocol
- Graphical representations of battery analog values in the history menu offer a clear representation in the form of diagrams over time
- Occurring faults can be conveniently forwarded to external applications via an integrated export function
- Battery block monitoring: graphic display of the optionally available individual battery block monitoring with single battery block voltage and single battery block temperature (only for DG-S)

A single software for a wide range of tasks

VisionGuard – visualization software



VisionGuard - A single software for a wide range of tasks

The powerful VisionGuard visualization software is able to control and monitor even large emergency lighting systems with maximum reliability. CEAG has more than 40 years of experience in this field. As market leader, we are always aware of our special responsibility, because in our field, light means life!

A monitoring tool for the really big tasks: Up to 500 individual DualGuard-S (DG-S) or ZB-S emergency lighting systems with over a million light points can be monitored via a single control room monitor. Especially for larger buildings such as airports, universities, museums, sports and industrial facilities, this software is the ideal choice to ensure the optimized and cost-effective operation of the entire emergency lighting system.

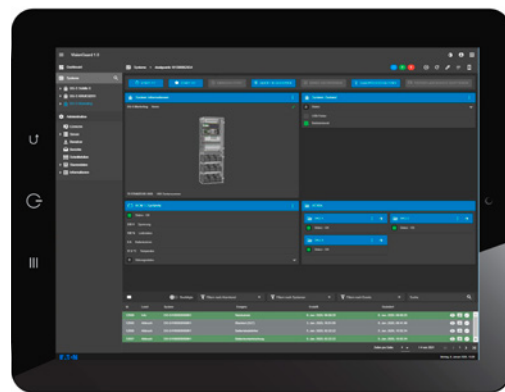
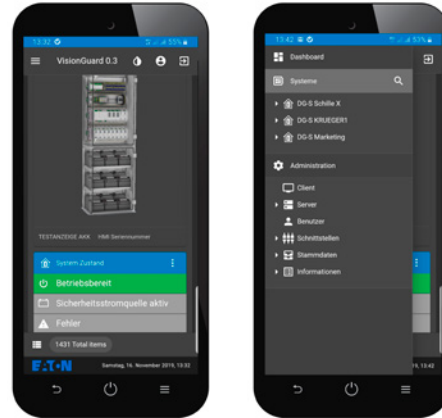
Compared to VisionGuard, web server solutions offer only a fraction of the performance. The strengths of the CEAG software are its complexity and configurability. It can manage entire emergency lighting systems with unprecedented transparency and efficiency.

Every safety luminaire counts

The only thing that matters in an emergency is that the system offers 100 percent protection. Building operators also need to document that this is really the case. VisionGuard records all the relevant details in an electronic log book, with status information that can be printed out automatically and at pre-defined intervals. Control in its most economical form.

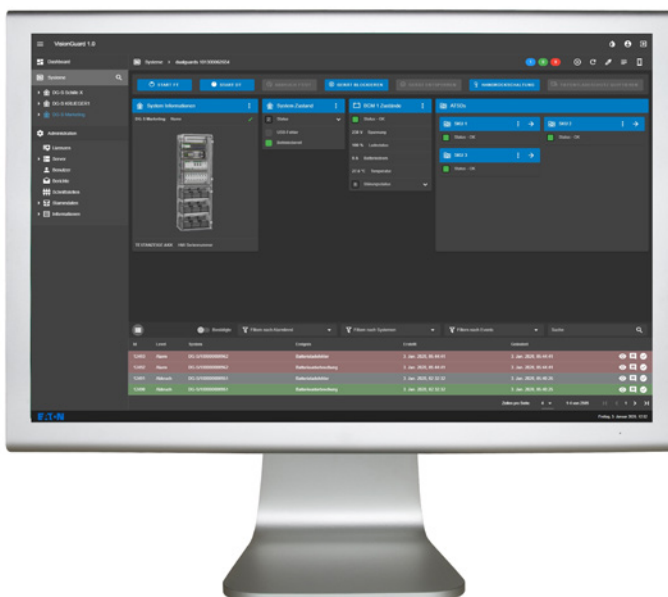
Responsive web design

The responsive web design automatically adjusts to the display size/resolution, to make sure that the display is ideally matched to the screen size of any smartphone. Even the navigation menu automatically adjusts to the screen size.



Tablets

Tablets offer a larger screen than smartphones while still being easy to handle, which makes them ideal for mobile applications. They offer the perfect balance between size and portability.



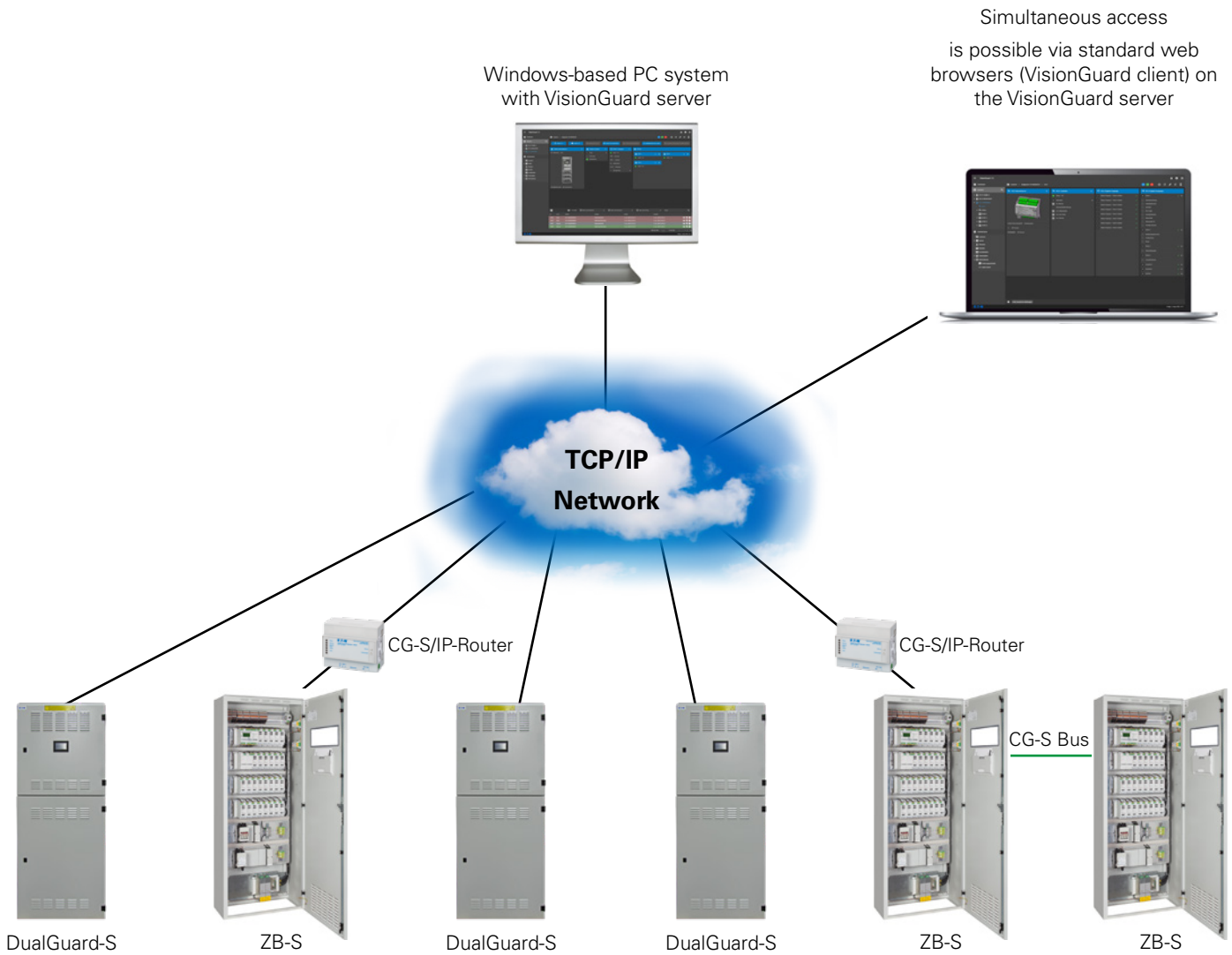
Full HD

The VisionGuard interface is optimized for a resolution of 1920x1080, which corresponds to Full HD. This means crystal-clear images even on larger screens.

VisionGuard application examples

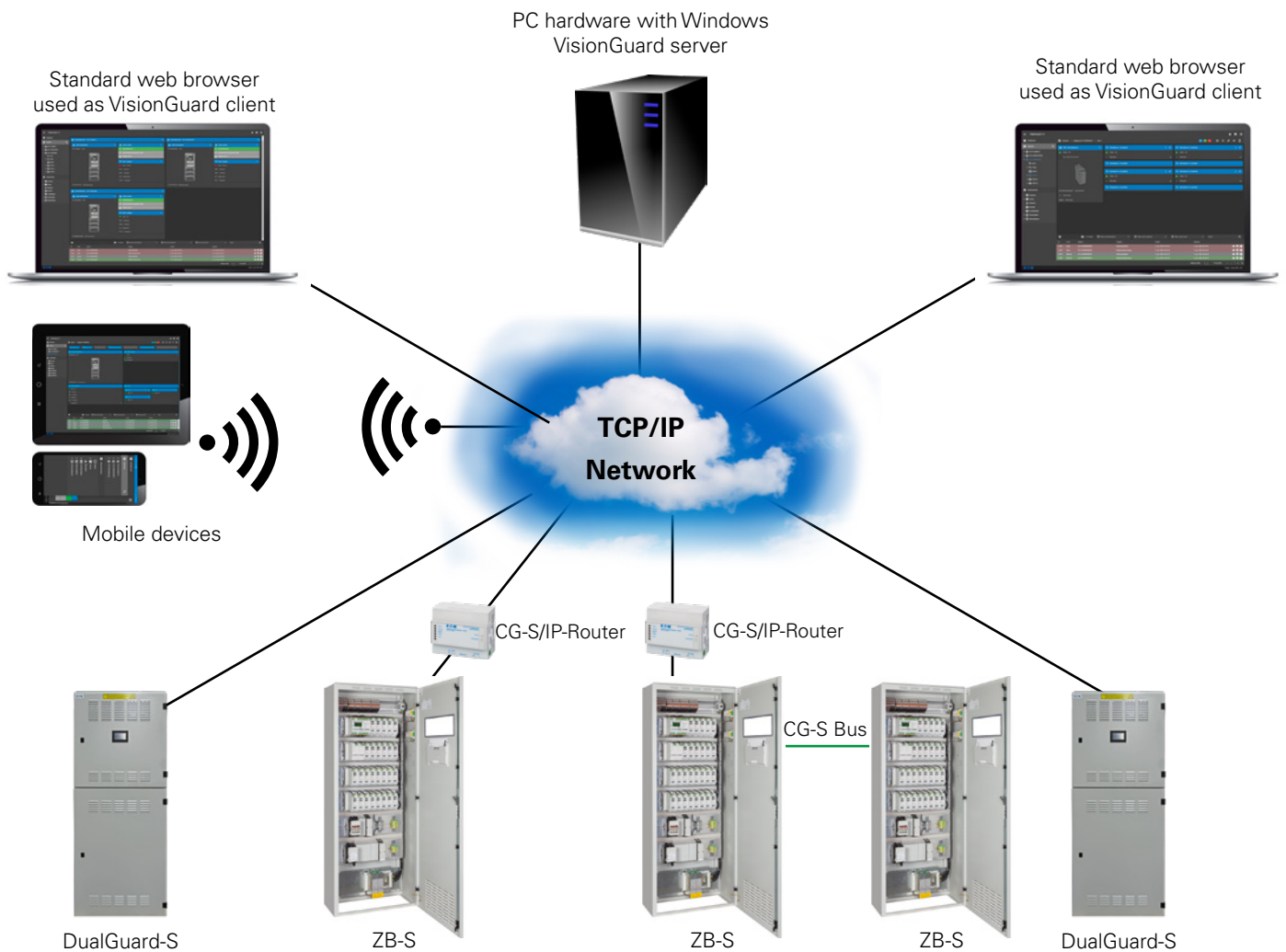
VisionGuard – visualization software

Application example: VisionGuard used as a workstation



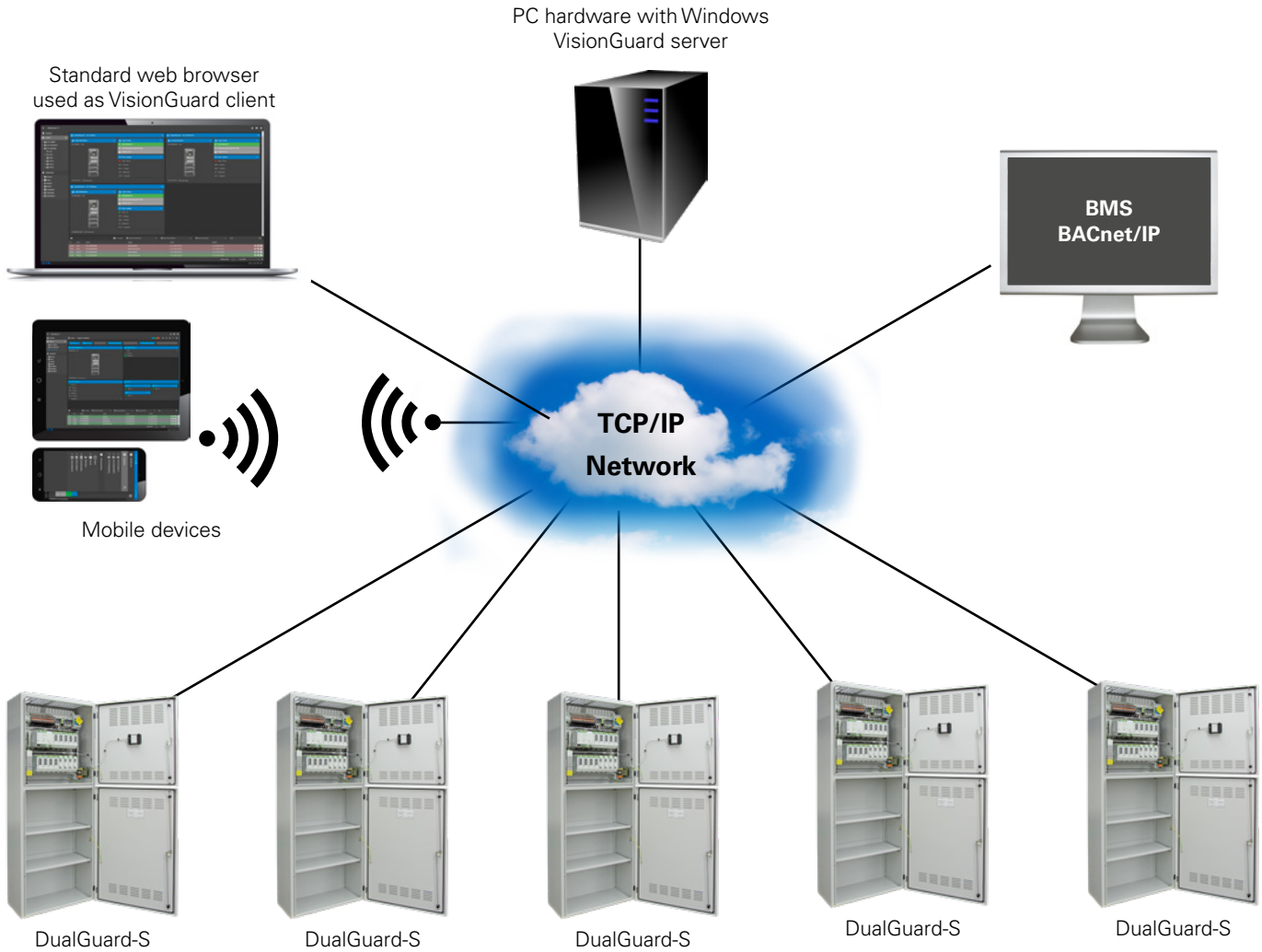
The VisionGuard server software can be installed on any Windows-based PC system. VisionGuard can be accessed via any locally installed web browser. So the use of any OS such as Windows, Linux, iOS or Android is possible. The system can also be easily accessed remotely via a web browser from any PC within the network.

Application example: VisionGuard used as a server installation



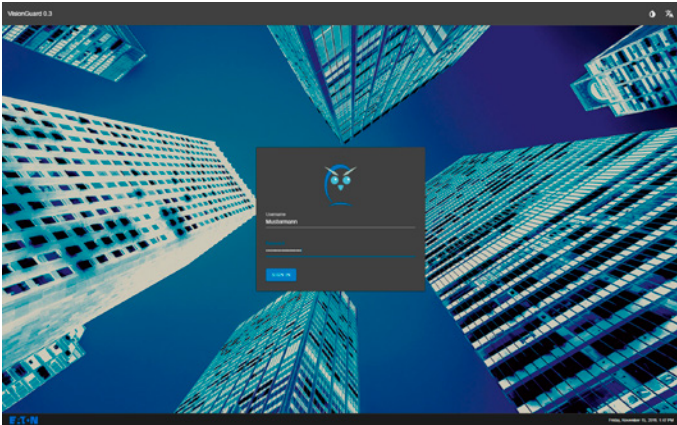
The VisionGuard server software can be installed in physical or virtual Windows-based server environments. Dongle-free software licensing eliminates the need for license servers. VisionGuard can be accessed via networked display devices such as PC workstations, mobile PCs or smartphones and from any web browser, so that any operating system, such as iOS, macOS or Android, can be used.

Application example: VisionGuard used as a server installation with BMS connection via BACnet/IP



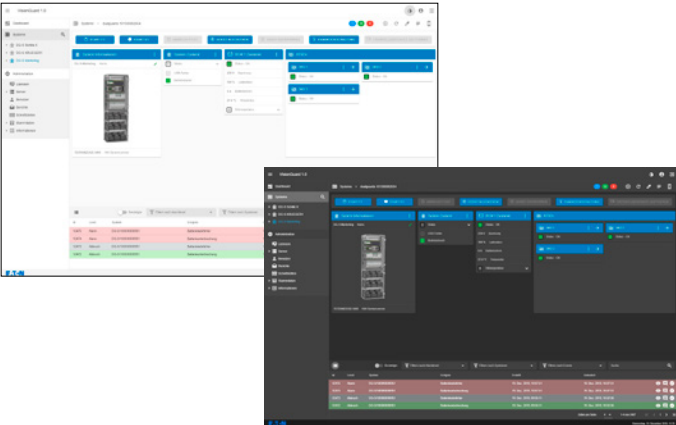
A BACnet-based Building Management System (BMS) can be connected to VisionGuard via the optionally available BACnet server via the BACnet/IP protocol. The BACnet server offers numerous status messages and four analog battery values per DualGuard-S Central Battery System.

Login – a safe start



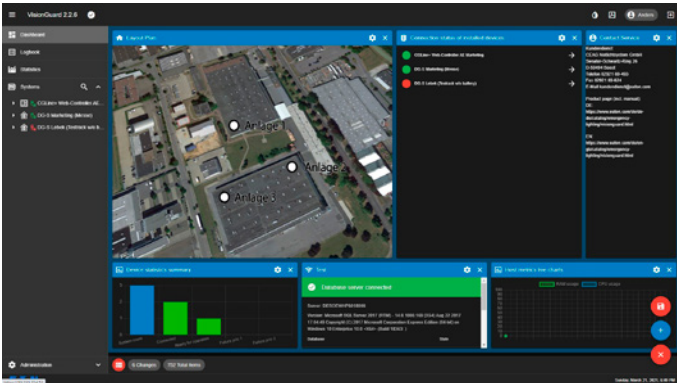
To prevent unauthorized access, operators with assigned access rights must first enter their secure password.

Light/dark mode



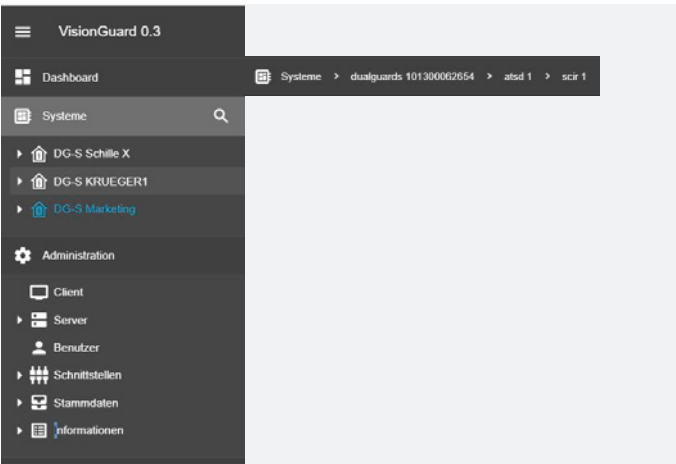
The popular light/dark mode can be switched on any screen via the droplet icon

Dashboard – everything at a glance



After logging in, the start-up dashboard will appear, featuring a useful summary with information about the system. In the dashboard, it is possible to set up widgets in the form of a graphical window system with summary information about the project in question.

Navigation menu – easy orientation



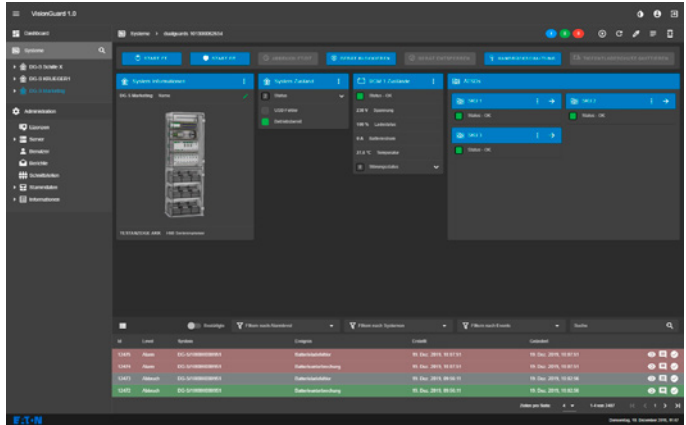
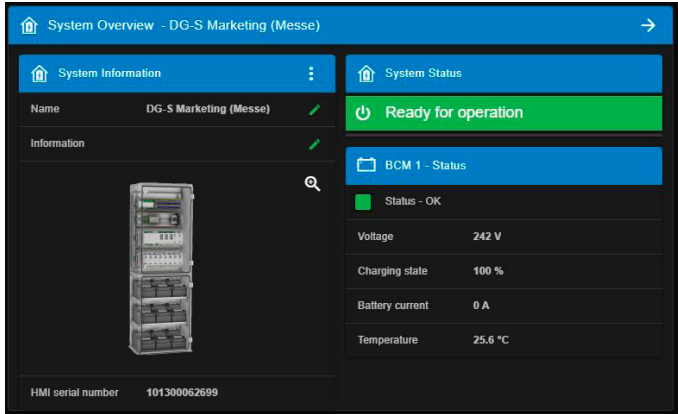
Orientation made easy, thanks to the navigation menu with its helpful "breadcrumb" trail

Insights into the software

VisionGuard – visualization software

System overview – Important information at a glance

Systems System overview

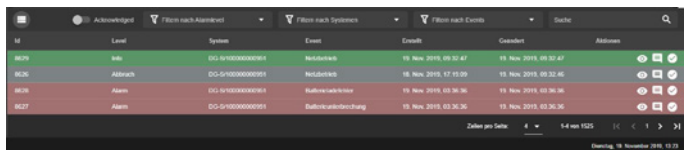
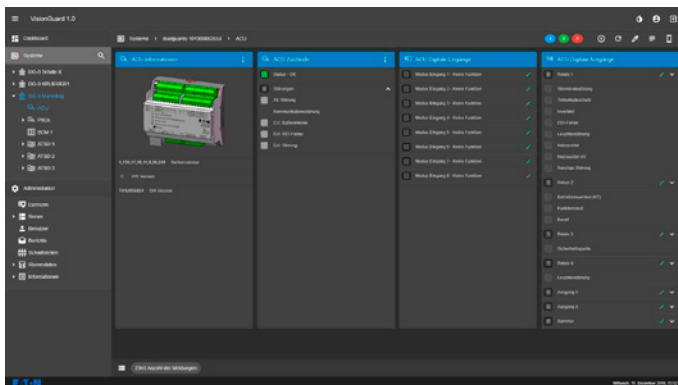


The system overview provides a quick view of the status of each system, with the messages "Normal operation", "Battery operation" and "Sum failure", including analog battery values.

The system overview displays all the important status information of the system, with a focus on what is actually necessary.

Systems Detailed view

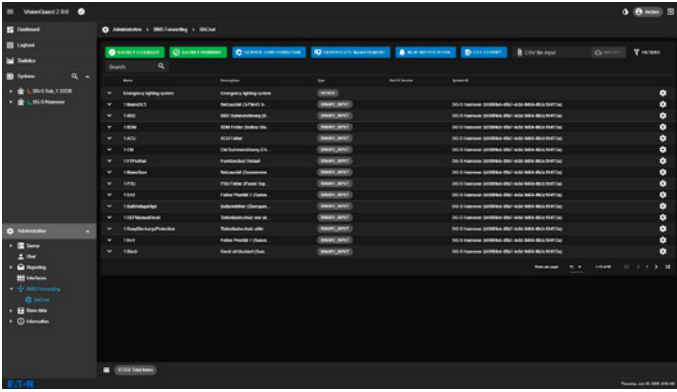
Alarm list – the latest events



The detailed system view provides more detailed status information. In the detailed system view, all DualGuard-S or ZB-S components are clearly arranged in the form of an explorer structure. Clicking on a component will open widgets with detailed information.

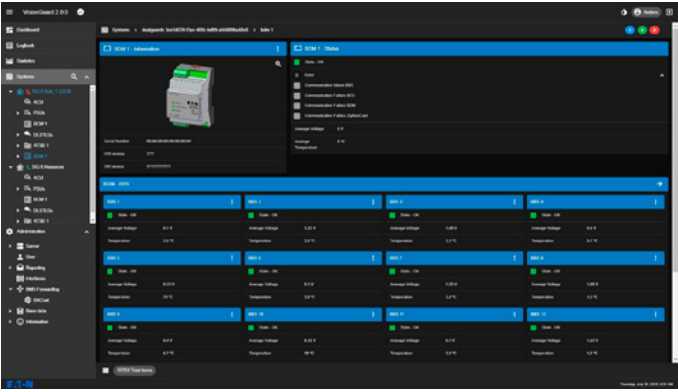
The events are arranged in different colors by category. A date/time stamp indicates when the event occurred. The filter function makes it easy to search for specific events.

BACnet/IP interface Easy BMS integration



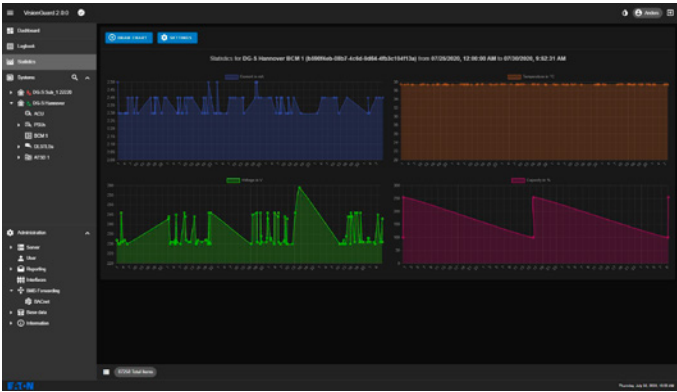
The optional BACnet/IP interface for DG-S offers configurable BACnet objects with status messages of each DualGuard-S for an easy connection to an external BACnet based Building Management System.

BBM Battery Block Monitoring



Every battery block under control – The optionally available Battery Block Monitoring (BBM) for DualGuard-S systems is clearly displayed in separate widgets. For each individual battery block there is a widget with the battery block voltage and battery block temperature. Inadmissible deviations of a single battery block can thus be reliably detected.

History menu



Graphical display of battery values over time – The history menu displays the battery analog values such as battery voltage, battery current, battery room temperature and state of charge over a configurable period of time in a clear graphic. This makes it very easy to display progressions such as a battery duration test.

A convincing technology

VisionGuard – visualization software



A convincing technology

...with orientation made easy

VisionGuard is the ideal monitoring solution for complex emergency lighting systems, from small projects to large-scale emergency lighting installations such as those found at airports. The software reduces the workload to a minimum, with fully automated processes and notification tools.

A user-friendly log book with filter function

All events are fully recorded in an electronic log book over a period of at least 4 years in accordance with DIN EN 50172 / DIN VDE V 0108-100-1. Comprehensive filter functions greatly simplify the retrieval of specific events.

ID	System	Gerät	Kommentar	Ereignis	Erreicht
84949	DG-S/100000000951	SYSTEM	Incident created	Batterieladefehler	19. Dez. 2019, 10:07:51
84948	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 10:07:51
84947	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 10:02:56
84946	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 10:02:56
84945	DG-S/100000000951	SYSTEM	Incident created	Batterieladefehler	19. Dez. 2019, 09:56:11
84944	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 09:56:11
84943	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 09:51:16
84942	DG-S/100000000951	BCM/1	Incident resolved	Batterieunterbrechung	19. Dez. 2019, 09:51:16
84941	DG-S/100000000951	SYSTEM	Incident created	Batterieladefehler	19. Dez. 2019, 09:49:26
84940	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 09:49:26
84939	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 09:44:30
84938	DG-S/100000000951	BCM/1	Incident resolved	Batterieunterbrechung	19. Dez. 2019, 09:44:30
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84935	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 09:37:43
84934	DG-S/100000000951	BCM/1	Incident resolved	Batterieunterbrechung	19. Dez. 2019, 09:37:43
84933	DG-S/100000000951	SYSTEM	Incident created	Batterieladefehler	19. Dez. 2019, 09:36:47
84932	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 09:36:47
84931	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 09:31:52
84930	DG-S/100000000951	BCM/1	Incident resolved	Batterieunterbrechung	19. Dez. 2019, 09:31:52
84929	DG-S/100000000951	SYSTEM	Incident created	Batterieladefehler	19. Dez. 2019, 09:28:01
84928	DG-S/100000000951	BCM/1	Incident created	Batterieunterbrechung	19. Dez. 2019, 09:28:01
84927	DG-S/100000000951	SYSTEM	Incident resolved	Batterieladefehler	19. Dez. 2019, 09:23:05
84926	DG-S/100000000951	BCM/1	Incident resolved	Batterieunterbrechung	19. Dez. 2019, 09:23:05

Seamless recording of all events

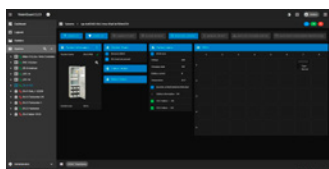
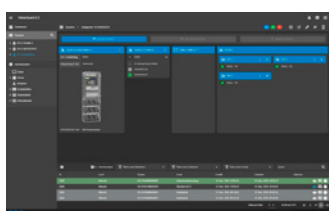
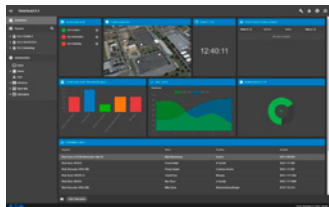
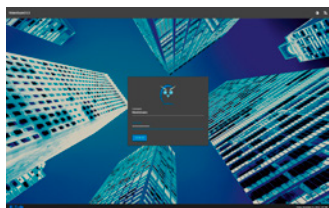
The adjustable email function provides information about alarms and sends status reports after function testing with detailed information down to luminaire level

E-Mail Adresse	Ereignisse
@eaton.com	Netzausfall
@eaton.com	Handrückschaltung, AE CU Störung, BBM Störung, Statusbericht, ISO-Fehler, Externe Quelle gestört, Netzausfall, DLS/TLS Fehler, Externe Quelle aktiv, Übertragungsfehler
@eaton.com	Automatischer Statusbericht, Sonstiger Fehler, SKUSOU Störung, Summenstörung, Leuchtenfehler, PSU Fehler, Netzausfall 3PH, Sicherheitsstromquelle aktiv, BCM Fehler, CM Fehler
@eaton.com	Netzausfall am Gerät, Netzausfall UV, Batterieladefehler, ACU Störung, BBS Fehler, USB-Fehler, Lüfterstörung, Netzausfall SOU, Netzausfall US, Szenario aktiv
@eaton.com	Handrückschaltung, AE CU Störung, BBM Störung, Statusbericht, ISO-Fehler, Externe Quelle gestört, Netzausfall, DLS/TLS Fehler, Externe Quelle aktiv, Übertragungsfehler
@eaton.com	Automatischer Statusbericht, Sonstiger Fehler, SKUSOU Störung, Summenstörung, Leuchtenfehler, PSU Fehler, Netzausfall 3PH, Sicherheitsstromquelle aktiv, BCM Fehler, CM Fehler
@eaton.com	Netzausfall am Gerät, Netzausfall UV, Batterieladefehler, ACU Störung, BBS Fehler, USB-Fehler, Lüfterstörung, Netzausfall SOU, Netzausfall US, Szenario aktiv
@eaton.com	Handrückschaltung, AE CU Störung, BBM Störung, Statusbericht, ISO-Fehler, Externe Quelle gestört, Netzausfall, DLS/TLS Fehler, Externe Quelle aktiv, Übertragungsfehler
@eaton.com	Automatischer Statusbericht, Sonstiger Fehler, SKUSOU Störung, Summenstörung, Leuchtenfehler, PSU Fehler, Netzausfall 3PH, Sicherheitsstromquelle aktiv, BCM Fehler, CM Fehler
@eaton.com	Netzausfall am Gerät, Netzausfall UV, Batterieladefehler, ACU Störung, BBS Fehler, USB-Fehler, Lüfterstörung, Netzausfall SOU, Netzausfall US, Szenario aktiv

Email settings menu with adjustable alarm notifications

Monitoring software

VisionGuard – visualization software



Monitoring software

- A modern web-based client/server architecture: Use of standard web browser on the client PC, no special client software installation necessary
- Extremely versatile: full visualization, monitoring and programming of up to 500 emergency lighting systems with over 1,000,000 emergency luminaires
- Full monitoring, control and configuration of DualGuard-S (DG-S) and monitoring and control of ZB-S central battery systems, also in mixed operation.
- Orientation made easy: With luminaire texts and additional information fields for each luminaire, alongside aerial views and floor plans of the emergency lighting systems and luminaires (in preparation)
- Transparent and user-friendly log books and extensive print functions provide a clear overview
- Automatic notifications: The integrated email function with numerous setting options conveniently sends information via email and thereby eliminates the need for in-person inspections
- Optional BACnet/IP interface (only for DG-S): This allows easy connection to an external building management system (BMS) via the BACnet protocol
- Graphical representations of battery analog values in the history menu offer a clear representation in the form of diagrams over time
- Occurring faults can be conveniently forwarded to external applications via an integrated export function
- Battery block monitoring (only for DG-S): graphic display of the optionally available individual battery block monitoring with single battery block voltage and single battery block temperature

VisionGuard - system hardware / software requirements:

Server	Standard Windows PC (tower, rack), virtual machine
Operating system	Windows® 10 (64 Bit), Windows® Server 2016
Processor	Min. Intel i5 or AMD Ryzen 5
Working memory	Min. 8 GB RAM (recommended 16GB RAM)
Hard drive (recommended)	256 GB SSD
Resolution	Full HD 1920 x 1080 or higher
Client	Standard PC workstation, Mobile devices (Tablet PC, Smartphone)
Graphics	DirectX 12
Software	Standard web browser, such as Edge, Chrome, Firefox, Safari
Display	Min. 19"
Ideal resolution	Full HD 1920 x 1080 or higher
Peripheral devices	Keyboard, mouse, printer

VisionGuard

- Multi-user operation: Modern web-based client/server architecture that can be accessed independently and in parallel (only DG-S) from different workstations
- Dongle-free software licensing
- Optionally available as a certificate with download link and license key, or VisionGuard software on USB stick with license key
- Tiered versions, from 3 to 500 emergency lighting systems
- Modern web-based dashboard design with widgets (graphic window system)
- Responsive web-design, for different display sizes
- Optimized for Full HD (1920 x 1080 dpi)
- Full visualization, control and configuration (DG-S) and visualization and control (ZB-S) down to the level of each system/luminaire
- User access control with four user roles (supervisor, administrator, power user and user)
- Detailed e-mail function (Status Mail Report and Alarm E-Mailing)
- Advanced printing functions
- Cyber security certified (EATON)
- BACnet/IP Interface for external BMS optionally available (only DG-S, for ZB-S in preparation)
- History function of analogue battery data
- Export function for external applications
- Substation Setup: Clear representation of a DG-S central battery system with connected DG-S substations
- Battery block monitoring (only DG-S): Graphic display of the optionally available battery block Individual monitoring with battery block voltage and battery block temperature

Volume licensing

Basic version for 3 devices
Basic version for 10 devices
Basic version for 25 devices
Basic version for 50 devices
Basic version for 100 devices
Basic version for 500 devices
Options: BACnet/IP Interface for external Building Management System (BMS) (only DG-S)



24" TFT display

Large TFT flat screen with IPS display and high resolution (1920 x 1200) for displaying the VisionGuard visualization, monitoring and programming software via a PC system.

PC-Miditower

A powerful PC system for installing and operating the VisionGuard visualization, monitoring and programming software. Includes WIN 10 Prof. (64 Bit), unlicensed VisionGuard preinstalled (must be purchased optionally), PC: high-performance Intel i5 processor, 16 GB RAM / 64 Bit, 256 GB SSD, 1 TB HD, mouse and keyboard.

Software order information

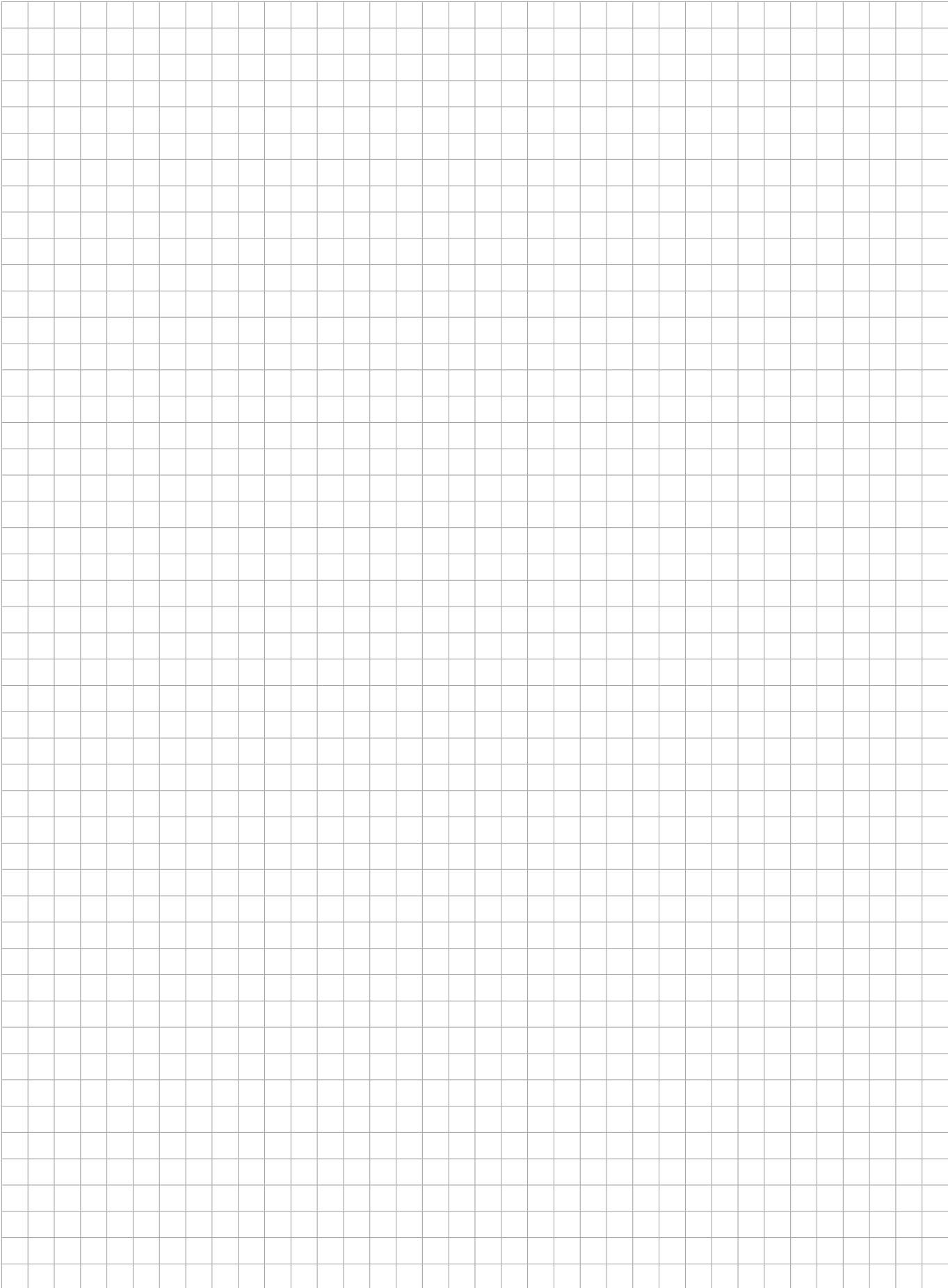
Part no.	Included with delivery	Article no.
VisionGuard basic version 3	Certificate with download link and license key	40071362800
VisionGuard basic version 3	VisionGuard Software on USB-Stick with license key file	40071362801
VisionGuard basic version 10	Certificate with download link and license key	40071362805
VisionGuard basic version 10	VisionGuard Software on USB-Stick with license key file	40071362806
VisionGuard basic version 25	Certificate with download link and license key	40071362810
VisionGuard basic version 25	VisionGuard Software on USB-Stick with license key file	40071362811
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VisionGuard basic version 500	Certificate with download link and license key	40071362825
VisionGuard basic version 500	VisionGuard Software on USB-Stick with license key file	40071362826
VisionGuard BACnet/IP Interface for external BMS (only DG-S)	Certificate with download link and licence key	40071362835
VisionGuard BACnet/IP Interface for external BMS (only DG-S)	VisionGuard Software on USB-Stick with BACnet/IP Interface license key file	40071362836

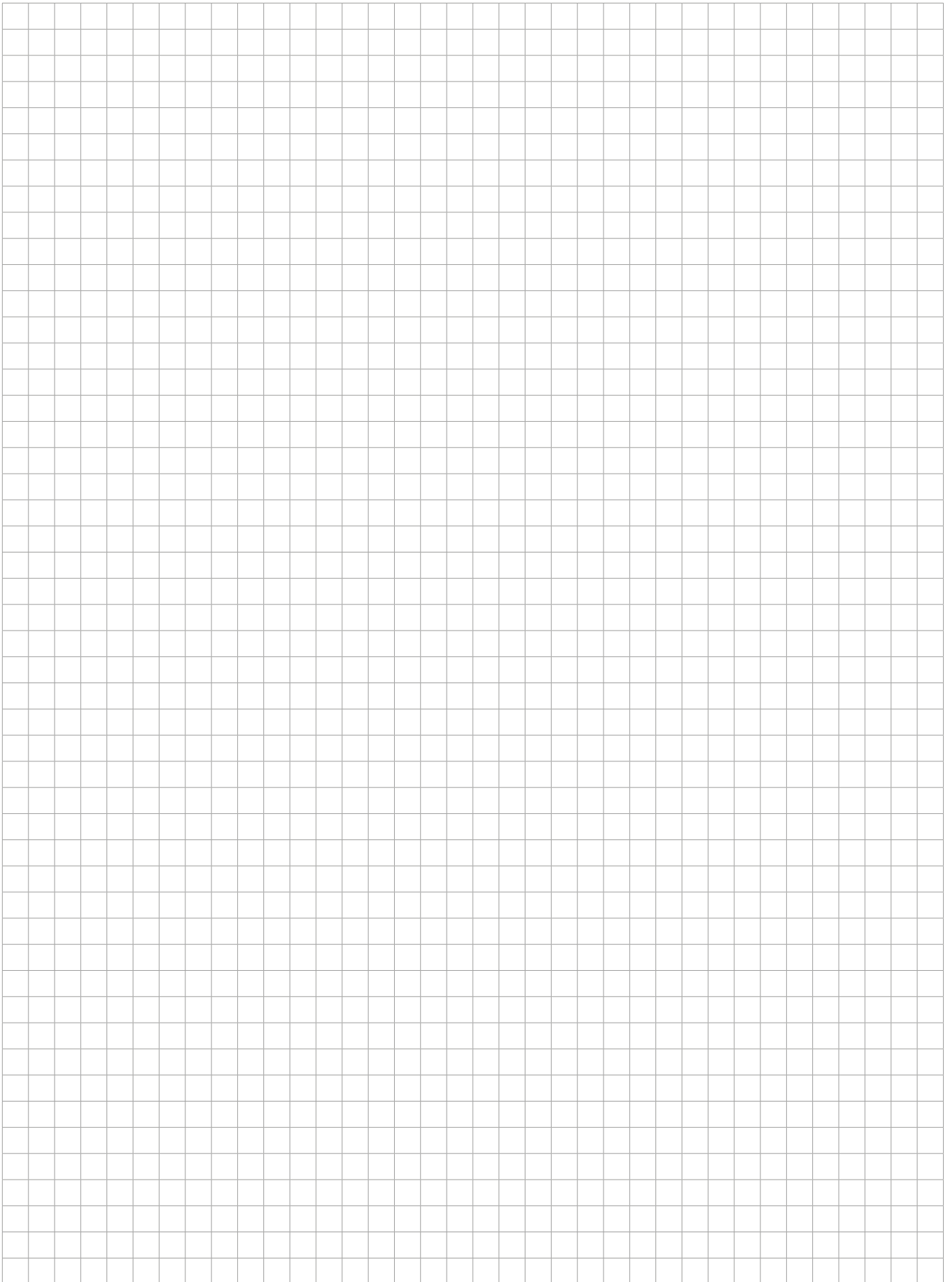
Hardware order information

Part no.	Included with delivery	Article no.
PC-Miditower	with high-performance Intel i5 processor, incl. optical mouse and WIN 10 Prof. (64 bit), unlicensed VisionGuard software pre-installation included	40071362880
24" TFT display	IPS display with 1920 x 1200 native resolution	40071347155
Inkjet printer colour	Powerful colour printer DIN A4	40071340753
Laser printer colour	High quality colour laser printer DIN A4	40071362850

Notes

VisionGuard – visualization software





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