

Integration Guide

Overview

Ai-RGUS is a comprehensive software solution for camera system performance monitoring. It is specifically designed for camera systems and therefore, the software provides you with highly detailed information about any camera system problems, such as DVRs, NVRs, and servers, down to the camera level. This software was developed for Duke University to automatically verify that each security camera in their system is “on”, recording, and showing a clear view.

- **Ai-RGUS** checks that each camera has the number of days of recording required by regulation or company policy.
- **Ai-RGUS** developed proprietary Artificial Intelligence algorithms to determine specifically if your cameras have problems of blur, block, tilt, glare, or low-light.
- The software checks your NVR’s storage and reports any errors with the storage disks and time synchronization issues.
- This information is pulled from the system automatically and regularly, and with minimal setup time. The system includes configurable reports, scheduled and real-time alerts, and can be integrated into your ticketing system.

With this information, you can be sure you are promptly aware of any issues, so you can respond to any surveillance system issues quickly.

Please check out our video <https://ai-rgus.com/video> for more information.

Ai-RGUS View Verification:

Taking into account all the factors required for a robust manual verification process, it takes approximately 20 seconds to verify a single camera. This figure includes pulling current camera images from the VMS, getting each camera’s reference image(s), comparing the images, quality control, and breaks. The benefits of using an automated system is compared to manual verification in the table.

Ai-RGUS uses AI and deep learning to automatically compare the current view of the camera against an approved reference view. It provides daily reports and automated alerts notifying you of the unhealthy cameras along with a diagnosis (e.g., blurry image, tilted view, blocked view, low-light, glare, feed down). In addition, it monitors the more time-sensitive conditions such as low-light, glare, and feed down up to every hour.

Value	Manual	Ai-RGUS
Cost of: - Verifications - Added Cameras	Adding personnel	Service fee 70%+ savings
Result	Subjective	Objective
Auditability	Difficult	Easy
Systematic	✗	✓
Historical Record	✗	✓
Statistics	✗	✓
Risks	<ul style="list-style-type: none"> • Distraction = miss camera view problem • More personnel can see all camera views including sensitive areas 	Minimal
Overhead	Office space, equipment for viewing stations, ...	Minimal
Management	Required	Optional

Ai-RGUS benefits offer peace of mind:

- (1) **Automatic** email notifications and reports of camera view problems.

(2) **Reliable** camera verification process through its automated and regular checks without any user intervention. Checks can run once or several times a day, including on weekends and holidays.

(3) **Save money** by only focusing on the sliver of cameras to have view problems.

(4) **Informed and accurate** camera system decisions for purchasing and installation based on the unique camera statistics **Ai-RGUS** collects.



**** Please tell us about camera view problems you experience and leave a message on our website, Twitter and / or LinkedIn and how **Ai-RGUS** helped. ****

Requirements and Considerations

Please install Avigilon ACC and the Web Endpoint (WEP) component. Starting from ACC version 7.12.0 the WEP component is bundled with ACC Server and will allow you to install through the wizard. Previous versions will require the WEP component to be installed separately using the .exe installer provided by Avigilon. After Avigilon ACC and the WEP component are installed and running, complete the following steps to install **Ai-RGUS**.

- 1

Select an installation mode

Choose how **Ai-RGUS** will connect to your cameras

 - (1) Hybrid
 - OR
 - (2) Cloud connection

- 2

Client Registration

Fill out **Ai-RGUS** registration form at the address below to receive payment instructions

https://app.ai-rgus.com/sign_up

- 3

Ai-RGUS confirms new registration

Once **Ai-RGUS** receives payment, you will receive an email to create a username & password to access the online dashboard and to provide additional information about the available devices

4

Client registers to service

Use the link provided in the email to:

- Create a username & password and logs in.
- Fill out device information in the device manager.

To register a new device, use the dropdown to select "Avigilon ACC" and provide the device's IP, port, username, password, etc.

★ If you chose "Cloud" in step 1

Click the "Test" button to test the connection to the devices. If the test completes, then your devices will be checked, no additional steps are required.

★ If you chose "Hybrid" in step 1

In the **Ai-RGUS** dashboard, in the "system manager", click the button "Download" to download the latest installer for your devices. This file may take a few minutes to download.

The specifications for a Virtual Machine to support up to 10,000 cameras is as follows:

OS	Windows 10, Server 2016R2, Server 2019
Architecture	64-bit
CPU	8 - 16 cores (16 - 32 hyper-threaded)
RAM	4 – 8 GB
Internet	50 Mbps
Storage	300 GB

Camera inspection will automatically begin after device information is provided and the software is running on the machine provisioned in step 1.

Usage

To view inspection results, please log in to the **Ai-RGUS** online dashboard at <https://app.ai-rgus.com>. This dashboard is best accessed through Chromium-based browsers (Chrome, Brave, Edge) and Firefox. It is accessible via desktop or mobile.

Configuration

In this section we describe the user-management, alerting, and notification functionalities.

User Management

Below is a screenshot of the settings page. You may edit the users in the tab called "profile settings."

Settings Analysis Demo

PROFILE SETTINGS

Here you can update your name
please stick to the format of "First-name Last-name"

Test User

Here you can control your users' permission to access the **Ai-RGUS** dashboard
Admin rights include muting and deleting cameras, changing the settings on this page, and adding devices in the device manager.

#	Name	Email	is active?	Is admin?	Allow mute?	Receive inspection email?	Remove
1	User 1	user@company.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		email address of the requested NEW user	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Send me a copy of the email sent to the new user(s)

ADD NEW USER(S)

Additional email addresses
Use the box below to specify additional email addresses to receive inspection reports and alerts.

Adam Smith <adm@abc123.com >; Joe <joe@joe1.com>; joan@xyz123.com ...

You can add as many users as you would like. Users can be added, deactivated, or removed at any time. Users can be designated as "admin" giving them all permissions and they can view all pages on the dashboard. Non-admin users can only see information (e.g., camera view ratings, device & camera notifications) but cannot change settings or add/remove devices. The intermediate level of allowing non-admin users to mute notifications for a camera is possible too.

You can control which users get notifications. If you would like certain email addresses to receive notification without having access to this dashboard, you can add the addresses at the bottom in the "Additional email addresses" field.

Alerts management

Below is a screenshot of the alerts configuration page. You may create templates for the conditions you want highlighted as a problem. You can set the number of hours and the number of days of recordings you expect to have. You can set the number of seconds of clock drift each device is expected to have. Each template can be assigned to groups of devices. Individual devices can have their own settings too without reference to any template.

Notifications management

You may set up system-wide summary emails and configure the information they contain. You may configure templates or create settings individual to each device. Here you can set up integrations to ticketing systems including Zoho, Dice, and Immix. By default we provide email alerting capability which you can configure and customize.

Ai-RGUS

You may connect up to 4,000 cameras
Monitoring 2,173 cameras on 130 devices out of the 146 devices listed below
Red border means that no connection was ever made to that device.

HEALTH TEMPLATES SETTINGS

Define templates for health settings

How to use

Template name: **dft** Used by 21 device(s)

Hours: 3
Days: 7
Drift (sec): 90
Connection: 3

General
Decide the condition
Here you can make setting in multiple d
You will be able to c
Any change here in
use this template
You will still be able
A template in use cc
number of devices t

Template name
A unique, max 5 chr

Hours
Verify the presence

Days

View of alerts settings templates

Contact Info & Support

We are always happy to help. Please contact us with any questions or concerns:

Email support@ai-rgus.com or call (919) 249-8701.

Website: <https://ai-rgus.com/>

Follow us on LinkedIn: [linkedin.com/company/airgus](https://www.linkedin.com/company/airgus)

Follow us on Twitter: [@ai_rgus](https://twitter.com/ai_rgus)

Follow us on YouTube: <https://ai-rgus.com/YouTube-channel>