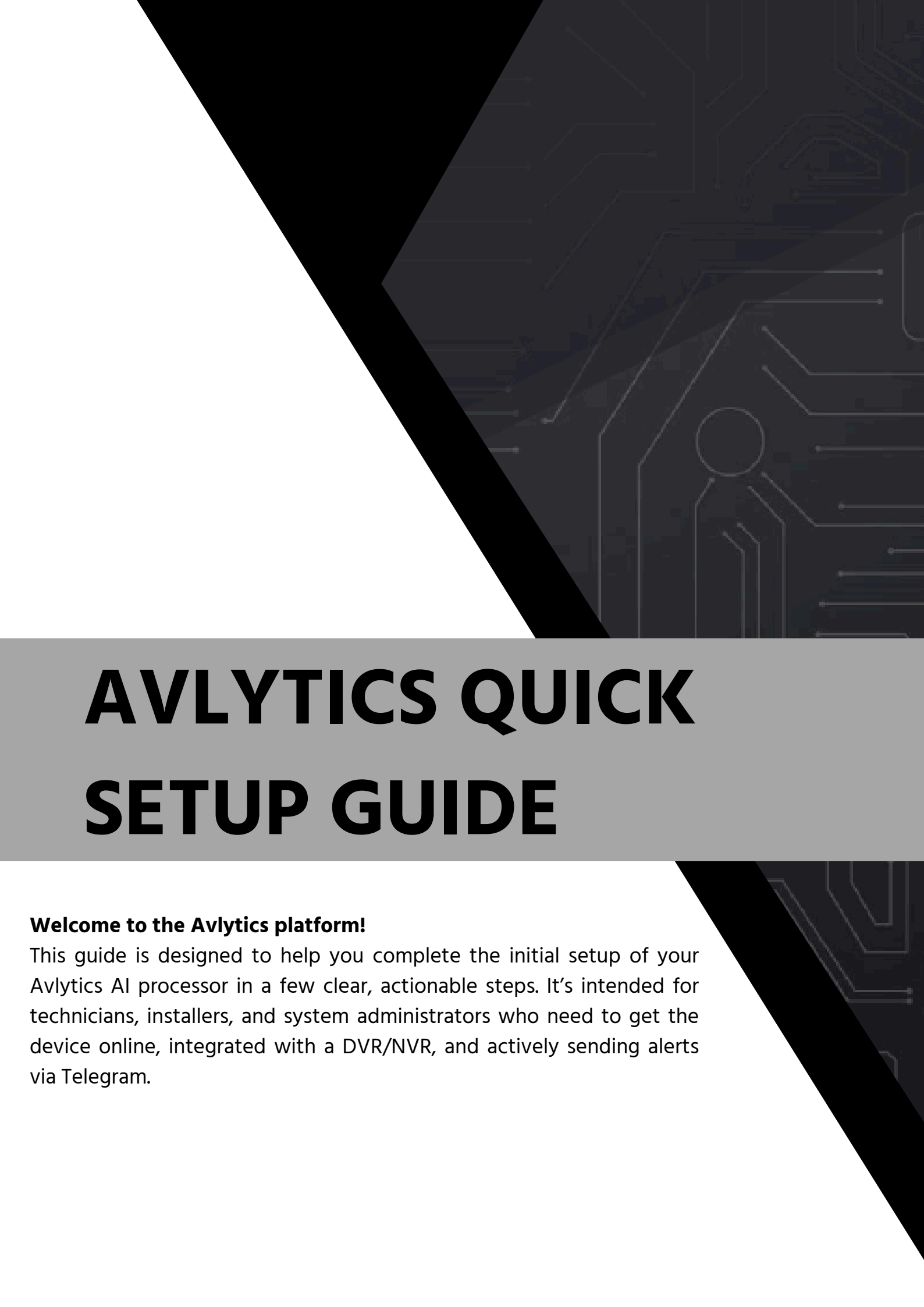
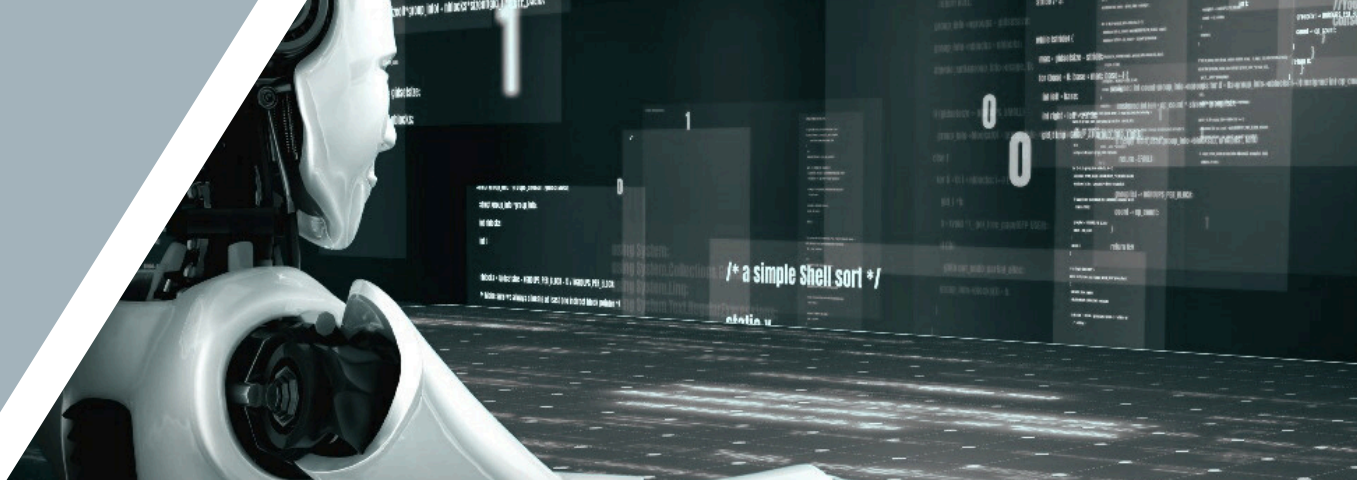




AVLYTICS QUICK SETUP GUIDE

Welcome to the Avlytics platform!

This guide is designed to help you complete the initial setup of your Avlytics AI processor in a few clear, actionable steps. It's intended for technicians, installers, and system administrators who need to get the device online, integrated with a DVR/NVR, and actively sending alerts via Telegram.



BY THE END OF THIS GUIDE, YOU'LL HAVE:

- Joined the correct Telegram groups
- Connected the device to power and network
- Collected and submitted DVR/NVR stream info
- Verified system connectivity and alert readiness
- Performed a basic walk test and completed final setup tasks

1. JOIN TELEGRAM NOTIFICATION GROUPS

Before you begin installation, make sure you're added to the device's Telegram groups.

Click the two links sent via WhatsApp to join:

- **Info Group:** For system health, online/offline, and maintenance notifications.
- **Alert Group:** For real-time object detection alerts from the site.

Tip: Ensure the correct people (e.g. control room staff or site manager) are monitoring these groups during and after installation.

For more advanced features, please refer to the Telegram Operation Manual at www.avlytics.co.za

2. Collect DVR/NVR Info

To enable the Avlytics device to analyse video streams, it must connect to the client's DVR or NVR system.

Gather the following from the DVR/NVR interface:

- **LAN IP address** (local network address of the recorder)
- **RTSP port** (used for video streaming)
- **Admin username** and **password**
- **Channel numbers** to be analysed (e.g. 1, 3, 5)



Once collected, this information is used to configure the device using the Telegram /setup function.

Tip: If the RTSP port is not known, check the DVR's network or stream settings menu — it's often set to 554 by default.

3. PLUG IN THE PHYSICAL HARDWARE

Once you've joined the Telegram groups and collected DVR/NVR info, you can power up the system.

Connect the following to the Avlytics AI processor:

- A network cable from the client's LAN into the LAN port of the device.
- The power supply cable, plug into a wall socket then switch it on at the plug (the device will automatically power up) .

Tip: Watch for the LED indicators — the Power LED should illuminate when the unit is on.





4. Is the Device Online?

Now that you've powered up the device, joined the Telegram groups, and collected the DVR/NVR details, it's time to confirm the device is active and connected.

Use the Telegram Info Group to check status:

- In the **Info Group**, send the command:
`/test`
- The Avlytics device will reply with:
"Test Message Received"

This confirms the device is:

- Online
- Connected to the internet
- Registered to the correct Telegram group

Tip: If you don't receive a reply, double-check power, network connection, and that the device has been added to the correct Info Group

5. RUN THE SETUP COMMAND

With the device online and your DVR/NVR info ready, it's time to configure the system using Telegram.

To start:

1. Open the **Info Group** in Telegram.
2. Send the command:
`/setup`
1. When prompted, enter:
 - **DVR/NVR IP address**
 - **RTSP port**
 - **Admin username**
 - **Admin Password**
 - **Channel numbers** to be analysed (e.g. 1, 3, 5)

The Avlytics device will then attempt to connect to the DVR/NVR and begin analysing the video streams.

Tip: Made a mistake? Send `/cancel` to abort and start again with `/setup`.

Need more help? Download the **Telegram Operation Manual** from our website:
www.avlytics.co.za

FINAL STEP: VERIFY ALERTS WITH A WALK TEST

Now that you've completed the 5 basic steps, the Avlytics device should begin **processing video streams** and **sending real-time alerts**.

To confirm everything is operational:

1. **Arm all channels** via Telegram using the `/arm` command.
2. **Walk through each camera's field of view** — ideally within the detection zone for each configured channel.
3. Watch for alerts in the **Telegram Alert Group** as you move through each zone.

Tip:

Avlytics devices rely on a specific resolution and frame rate for optimal detection.

Harumi Kobayashi

- All models operate at **6 FPS**.
- The **resolution requirement** depends on the specific Avlytics model used (e.g., AVT804/8 vs. AVT832).
Double-check the **DVR/NVR substream settings** to ensure they are configured **within supported specifications**.

POST-INSTALLATION STEPS

After completing the **physical installation** and **walk test**, there are a few essential **fine-tuning actions** that should be carried out by a trained person responsible for Avlytics within your company.

These include:

- **Adjusting the Region of Interest (ROI)**

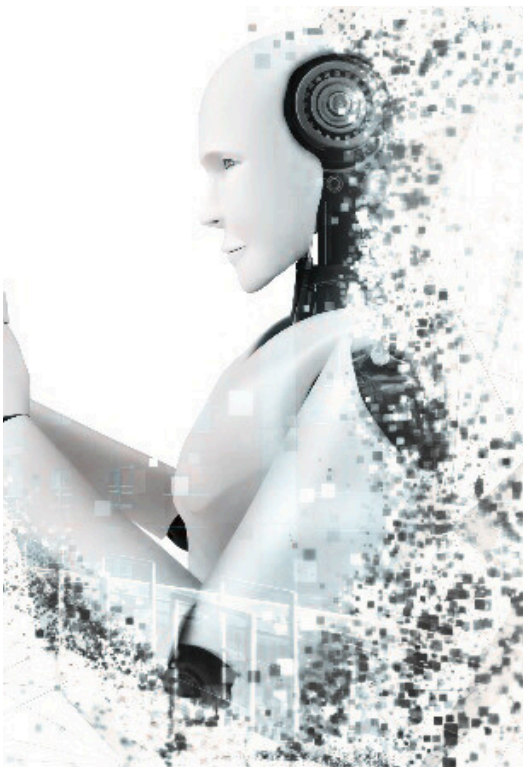
Refine detection zones for each channel to reduce false alerts and focus on meaningful motion areas

- **Enabling Control Room Software Integration**

Ensure integration is active and that the Radio Number (used for alerts or dispatch linkage) is correctly configured on the device.

- **Setting Up the Device Schedule**

Define the operating hours for each device so that it only analyses footage and sends alerts during active times.



These steps are essential for full operational readiness and long-term system performance.

Congratulations!

You've successfully completed the setup of your Avlytics Device. Your system is now live, alerting, and ready to deliver intelligent surveillance.

Need help or want to go deeper?

Visit: www.avlytics.co.za Or reach us at: chris@avlytics.co.za | +27 41 364 2585

OPTIONAL INTEGRATION: PHYSICAL RELAYS & SMART AUTOMATION

If you are using physical relay integration — such as Armed Status Indicators, or Arming/Disarming via an alarm panel — you will need to connect the Avlytics I/O Module to support these features.

Wiring the I/O Module

- The Avlytics **I/O module** is a **dual-purpose unit** — it can function as either:
 1. An **Input** (e.g., receiving arm/disarm signals from an alarm panel), or
 2. An **Output** (e.g., triggering a radio transmitter or strobe).
- The same model is used for **ether** configurations.

You will find two wiring diagrams:

1. **Input Wiring** — how to connect an external signal (e.g., dry contact from alarm panel) into the Avlytics device.
2. **Output Wiring** — how to connect a Sonoff relay to your alarm panel or external system.



Sonoff Smart Automation Integration

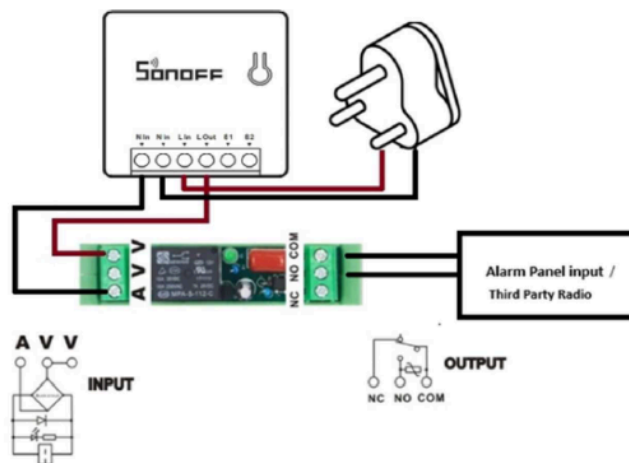
Avlytics also integrates with Sonoff smart home automation devices for wireless control and automation.

- The Avlytics AI Processor connects to Sonoff relays via Wi-Fi.
- Each Sonoff device is paired with the Avlytics unit during initial setup.
- If you need to add additional Sonoff functions, a detailed setup guide is available on our website.

Tip: Ensure the Wi-Fi signal is stable near the Sonoff units to maintain reliable triggering.

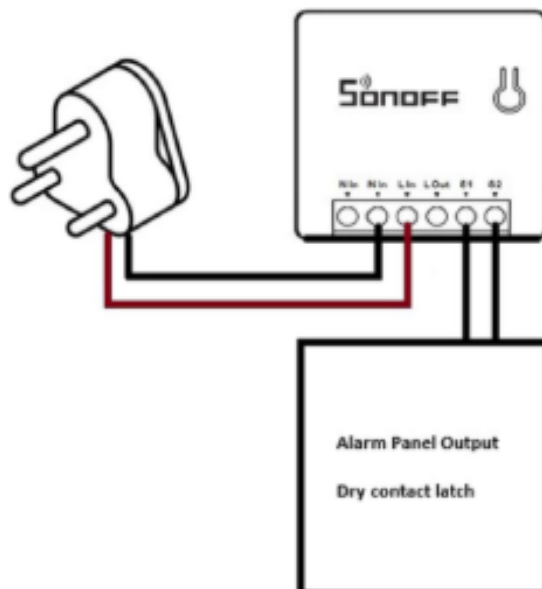
Output Wiring

Sonoff wiring with 220v relay to dry contact output for K2, K3 and K4.



Input Wiring

Sonoff wiring for arm / disarm input.



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