

# AVLYTICS

*artificial intelligence for video surveillance*



The Most Cost Effective  
Artificial Intelligence for Surveillance Solutions

## **AVT-308PS Technical Instructions Manual**

Version 1.2

For units: AVT-308 PS / AVT-iBU / AVT-A-BOX

# INDEX

|                                     |       |
|-------------------------------------|-------|
| 1. Wiring Instructions.....         | pg. 3 |
| 1.1. Network Connection .....       | pg. 3 |
| 1.2. Arm/ Disarm Input .....        | pg. 3 |
| 1.3. Relay Connections .....        | pg. 4 |
| 1.4. Tamper Switch Connection ..... | pg. 4 |
| 1.5. Powering Up .....              | pg. 4 |
| 2. LED Indicators.....              | pg. 5 |
| 3. Certifications.....              | pg. 5 |
| 4. Safety Instructions.....         | pg. 6 |
| 5. Device Specifications.....       | pg. 6 |
| 6. Warranty and Declaration.....    | pg. 7 |
| 7. Contact Information.....         | pg. 8 |

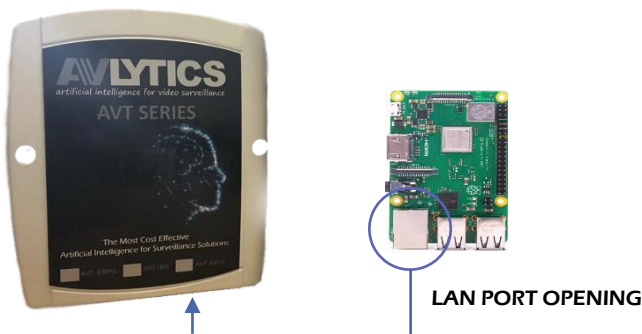
# 1. Wiring Instructions

The AVT-308PS will require the following basic wiring connections and only once all wiring is complete should 220VAC then 12vdc Battery power be connected. Once Enclosure is mounted follow 1.1 – 1.5 below. The wiring instructions are the same for AVT-308PS/AVT-iBU/AVT-A-BOX units.

## IMPORTANT NOTE:

The AVT- Device is to be housed indoors or within a ventilated outdoor housing.

## 1.1 Network Connection



Connect network cable from router to LAN input. There is a LAN port opening at the bottom of the bottom of the AVT-device enclosure.

## 1.2 Arm/ Disarm Input

Arm / Disarm input allows the unit to be armed and disarmed via a local trigger. The input requires a latched N/C to ARM the AVLYTICS and a latched N/O to DISARM. This dry contact input may be obtained from a GSM device, local alarm panel or a standalone RF Receiver in conjunction with a hand held Transmitter.



Arm/Disarm Input

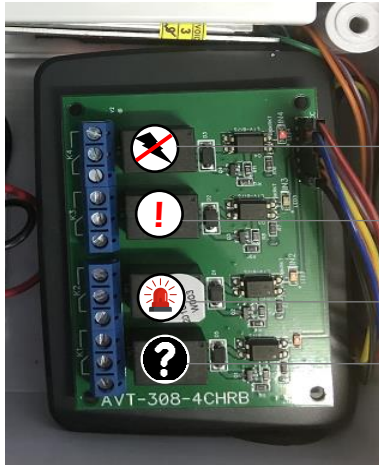
Connect the dry contact output from the arming device, to the two open terminals.

## IMPORTANT NOTE:

When CONTROLMON and the RELAY OUTPUTS are enabled, the ARM/DISARM input will require a bridge if it is not being used with a local ARMING device.

## 1.3 Relay Connections

The AVT-308PS has four 10amp 12vdc Relays which are pre-programmed to offer monitoring of 4 diagnostic / status conditions which can be used to trigger a secondary communications device like a RADIO/GPRS or GSM Device. These outputs serve as a fail-over in case of the on-site internet service being available. The **CONTROLMON** option which enables these relays must be requested at the time of the user obtaining a Site License (OPTIONAL).



→ K4 Relay = A/C Fail Output

→ K3 Relay = Trouble Output  
(Network offline, Camera Loss and DVR/ NVR Offline)

→ K2 Relay = Alarm Output

→ K1 Relay = Arm/ Disarm  
Status Output

## 1.4 Tamper Switch Connection

The AVT308-PS is fitted with a TAMPER SWITCH in order to monitor the removal of the enclosure lid. This can be linked to a local device, such as an Alarm or Communications device, that will activate a N/C switch to N/O state, and is reset on the replacement of the lid (OPTIONAL).



TWO WIRE – N/C Contact for Closed Tamper Circuit, when the enclosure lid is removed, the contact will switch to N/O and activated the related output.

## 1.5 Powering Up

Power up the unit with 220 V first, followed by the 12 VDC. Wait for 2 – 5 minutes for boot up. The AVT device is now ready for programming. Once all wiring is complete - the cable tie may be removed.

## 2. LED Indicators

LED Indicators – Pi Unit (found under Pi device cover).

1. **RED LED on Pi Unit**
  - On – Power OK
  - Flashing – Power Dropping below 4.65 VOLTS.
2. **GREEN LED on Pi Unit**
  - Flashing – Reading SD card, all in order
  - Off – The SD card cannot be read, contact support.

LED Indicators – PSU Board, inside AVT- device enclosure.

3. **GREEN LED on PSU Board**
  - Green LED indicates power is available, device is **ON**
4. **Relay Board LEDs on PSU board** (LED only on when activated)
  - K1 – **ON** when Armed, **OFF** when Disarmed.
  - K2 – On when **Alarm** Activated.
  - K3 – On when **Trouble** detected.
  - K4 – On when **A/C fail** detected.

## 3. Certification

Power Supply compliant with the following regulations:

EN55022:2010

EN55024:2010

EN6100-3-2:2006+A1:2009 + A2:2009

IEC 60950-1:2005 + A1:2008

Pi Device compliant with the following regulations:

EN301-4489-1

EN301-489-17 V3.11 in Conjunction with EN55032 and EN55024

EN-300-328 V2.1.1

EN300-893 V2.1.1

## 4. Safety Instructions



### Safety Instructions:

- The device is configured for voltages of 110 to 240V AC. It only has to be plugged into a grounded socket.
- The device may only be used in a dry environment, do not expose it to moisture (sprays of water, mist etc.)



Danger: Do not open the device casing while it is powered on.



The device is intended to Charge Lead Acid batteries with a max capacity ampere hour rating of 7A/H. A bigger battery may result in the unit not operating correctly.

### WARNING:

THE SOCKET OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE

## 5. Device Specification

The AVT-308PS is an Ai AVLYTICS interface module compatible with both Analogue and IP CCTV systems. The system allows for local on-board Ai detections to be made, and for communication of these alerts through both TCP/IP (internet), and on-board dry contact relays, connected to a secondary / backup communications device. The AVT-308PS is primarily designed to operate in conjunction with a security monitoring centre that is able to receive both detection alerts and diagnostic monitoring telemetry. Whilst the unit is able to operate as a stand-alone solution, making use of the AVT-308PS without monitoring its diagnostic telemetry is not recommended.

| DEVICE SPECIFICATIONS       |                           |
|-----------------------------|---------------------------|
| Number of AVLYTICS Channels | Maximum 8 RTSP Streams *  |
| LAN CONNECTION              |                           |
| LAN Port                    | YES                       |
| Transmission                | 10 / 100 / 1000 Based – T |
| Connection to DVR / NVR     | Via TCP/ IP               |

| VIDEO                    |   |
|--------------------------|---|
| Resolution               | CIF Resolution                                |
| Frames Per Second (FPS)  | 6 FPS   |
| Source Stream            | Record Stream or Substream                    |
| Human Presence Detection | YES   |
| Number of Regions        | 1   |
| Number of Channels       | *8 x CIF or 2 x VGA                           |
| COMMUNICATION PLATFORM   |   |
| Detection Alerts         | Telegram App/ AVTASS IP Base (CID Telemetry)  |
| Inputs                   | 1   |
| Outputs                  | 4   |
| Output Functions Set 1   | On/Off; Detection Alarm; A/C Fail; Diagnostic |
| Output Functions Set 2   | Relays / Camera Detection (on request)        |
| Enclosure Tamper         | YES   |
| Arming Method            | via Telegram App / Schedule / Local Input     |
| Disarming Method         | via Telegram App / Schedule / Local Input     |
| OPERATING VOLTAGE        |   |
| Voltage Input            | 220-230VAC 50hz                               |
| Output Voltage           | 13.8v-14.2v                                   |
| 12vdc Battery Backup     | YES   |
| AC Fail Output Rating    | 140 ma  |
| Backup time              | Approximately 1.5 hours (Backup PSU optional) |
| Nett Weight              | 3.7kg (Includes 12v 1.4amp Battery)           |
| IP Rating                | Only for indoor use                           |
| Power LED                | YES   |
| Buzzer On AC FAIL        | YES (Optional)                                |
| Current Draw             | 3.7 Amp, 5 Volts                              |

\* IP or Analogue, or a Combination thereof.

Please note that specifications may change at any time, contact your service provider for up to date manuals and specification information on a regular basis.

#### IMPORTANT NOTE:

THE INSTALLATION OF AN AVT-308PS MUST BE DONE BY AN ACCREDITED SECURITY PROFESSIONAL.

## 6. Warranty and Declaration

The goods supplied by Intertrade Security Distributors (hereafter ISD), shall be subject to the provisions of sections 55 to 57 of the Consumer Protection Act (68/2008), except where the provisions of the warranty contained in the ISD documentation are more favourable to the purchaser.

Subject to the warranty contained in the ISD product documentation, if applicable, ISD products are warranted for a period of 12 Months, after delivery. However, it is expressly noted that batteries carry a (6 Month) warranty due to the nature of these products being such that they are subject to possible misuse. For equipment not of ISD manufacture or supply, the warranty as supplied by the original manufacturer will apply if such warranty is more favourable to the purchaser than the

relevant provisions of the Consumer Protection Act (68/2008). Such warranty is valid only once full payment has been received for such goods.

Any warranty may be voidable on any equipment which:

- i.) Has not been installed in accordance with the installation instructions provided.
- ii.) Has been subject to misuse or which has been used for any purpose other than that designed for by the manufacturers.
- iii.) Has damage caused as a result of handling during transit, atmospheric conditions (including lightning), corrosion of metal parts, water damage, leaking batteries, insect infestation, power surges or other forces outside of the control of ISD.
- iv.) Has been repaired by a person NOT previously authorised by ISD.
- v.) Has been repaired with components not previously tested, passed or authorised by ISD. ISD will not be liable under this policy for any loss or damage caused by us or our employees or agents in circumstances where:
  - i. There has been a failure to install the product in accordance with the installation instructions provided by ISD , or
  - ii. a failure to abide by the safety instructions provided by ISD , or
  - iii. there is no breach of a legal duty of care owed to you by ISD or by any of our employees or agents,
  - iv. such loss or damage is not a reasonably foreseeable result of any such breach, and any increase in loss or damage resulting from breach by you of any term of this contract.

#### IMPORTANT NOTE:

This product is approved for the use in Residential, Commercial and Light Industrial Environments, and complies with the essential protection requirements of the R&TTE Directive of 1999/EC on the approximation of the laws of the member states relating to electromagnetic compatibility and radio spectrum.

## 7. Contact Information

For Technical Assistance, please contact your local AVLYTICS Distributor, or alternatively contact [aisupport@intertradesecurity.co.za](mailto:aisupport@intertradesecurity.co.za)

# Thank you