

AVLYTICS

artificial intelligence for video surveillance



The Most Cost Effective
Artificial Intelligence for Surveillance Solutions

Device Specifications

Version 1.2

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1. A BOX device Specifications

DEVICE SPECIFICATIONS – A BOX	
* Number of Channels	V1: Maximum 16 RTSP Streams (live view only). V2: 10 Channels live and recording.
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	Live only
V1: Number of Channels	16 Live Streams – max 4 simultaneously
V2: Number of Channels	10 Channels live/ recording. Live - max 4 simultaneously. Record - Single Channel Playback.
COMMUNICATION PLATFORM	
Outputs	4x Dry Contact Outputs
V1 and 2 Output Trigger	Trigger via Interface or Telegram
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.	

2. Pi - 8 Channel Device Specifications

DEVICE SPECIFICATIONS - 8 CHANNEL	
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 Sub Stream
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.

3. NUK – 16 Channel Device Specifications

DEVICE SPECIFICATIONS - 16 CHANNEL	
Number of AVLYTICS Channels	Maximum 16 RTSP Streams *
LAN CONNECTION	
LAN Port	YES
Transmission	10 / 100 / 1000 Based – T
Connection to DVR / NVR	Via TCP/ IP
VIDEO	
Resolution	VGA Resolution
Frames Per Second (FPS)	6 FPS
Source Stream	Record Stream or Substream
Human Presence Detection	YES
Number of Regions	1
Number of Channels	*16 x VGA or 8 x 1MP
COMMUNICATION PLATFORM	
Detection Alerts	Telegram App/ AVTASS IP Base (CID Telemetry)
Inputs	n/a
Outputs	n/a
Output Functions Set 1	n/a
Output Functions Set 2	n/a
Enclosure Tamper	n/a
Arming Method	via Telegram App / Schedule
Disarming Method	via Telegram App / Schedule
OPERATING VOLTAGE	
Voltage Input	220-230VAC 50hz
Output Voltage	19.2v
12vdc Battery Backup	n/a
AC Fail Output Rating	n/a
Backup time	n/a
Nett Weight	
IP Rating	Only for indoor use
Power LED	YES
Buzzer On AC FAIL	n/a
Current Draw	

* 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.

4. NUK – 32 Channel Device Specifications

DEVICE SPECIFICATIONS - 32 CHANNEL	
Number of AVLYTICS Channels	Maximum 32 RTSP Streams *
LAN CONNECTION	
LAN Port	YES
Transmission	10 / 100 / 1000 Based – T
Connection to DVR / NVR	Via TCP/ IP
VIDEO	
Resolution	VGA Resolution
Frames Per Second (FPS)	6 FPS
Source Stream	Record Stream or Substream
Human Presence Detection	YES
Number of Regions	1
Number of Channels	*32 x VGA or 16 x 1MP
COMMUNICATION PLATFORM	
Detection Alerts	Telegram App/ AVTASS IP Base (CID Telemetry)
Inputs	n/a
Outputs	n/a
Output Functions Set 1	n/a
Output Functions Set 2	n/a
Enclosure Tamper	n/a
Arming Method	via Telegram App / Schedule
Disarming Method	via Telegram App / Schedule
OPERATING VOLTAGE	
Voltage Input	220-230VAC 50hz
Output Voltage	19.2v
12vdc Battery Backup	n/a
AC Fail Output Rating	n/a
Backup time	n/a
Nett Weight	
IP Rating	Only for indoor use
Power LED	YES
Buzzer On AC FAIL	n/a
Current Draw	
* 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.	

5. Benchmark Specifications for Installations

BENCHMARK SPECIFICATIONS		NUMBER OF CHANNELS PER RESOLUTION				
RESOLUTION	CAPACITY	4MP	2MP	1MP	VGA	CIF
AVT-308PS	1MP	*	*	*	2	8
AVT-316PS	16MP	4	8	16	48	80
AVT-332PS	32MP	7	15	32	100	130
AVT-364PS	64MP	14	25	64	150	250
AVT394PS	94MP	23	50	94	200	350
RESOLUTION / LENS / ACCURACY		RESOLUTION INDEX AND CAPACITY CALCULATOR				
CIF – 3.6mm	20 meters	<p>When making use of the resolutions outside of the 1 MP specification, you are able to use multiple resolutions (CIF/ VGA/ 2MP and 4MP) on one AVT device. This excludes the AVT-308PS, which is limited to VGA/ CIF resolution).</p> <p>To do this, take the total MP capacity of your AVT-Device and divide it by the total number of channels / resolution you wish to utilise.</p> <p>By adding the number of CIF (1/8 MP), VGA (1/4 MP) and the MP of the cameras on the site, you are able to calculate the correct settings for your limitation, to not exceed the MP capacity of the device.</p>				
VGA – 4mm	30 meters					
1MP – 6mm	40 meters					
2MP – 6mm	60 meters					
4MP – 8mm	80 meters					

IMPORTANT NOTE:

The indication that the device can analyse 80 – 350 CIF and 100 – 200 VGA channels for various models, is purely on the device's CPU processing ability. Other factors contribute to the device's ability to process the streams, namely RAM, SWAP SPACE, and DISK size and performance. These factors, along with the CPU capacity limits the number of channels per device. Staying in the 1MP range indicated above will ensure that all channels have sufficient resources to process the streams.