



ZN-AIBOX-STD Resources Doc

v1.0.4

The purpose of this document is to provide a centralized location for Ganz ZN-AIBOX-STD resources. By centralizing the information in this document, it creates an easy and effective way to provide relevant information to interested parties.

Please note the following resource links below

AI Box Landing page

[ZN-AIBOX-STD](#)

Documentation Resources

[ZN-AIBOX-STD series Specifications](#)

[ZN-AIBOX-STD License Guide](#)

[ZN-AIBOX-STD Licensing Warranty Policy](#)

[ZN-AIBOX-STD Warranty](#)

[ZN-AIBOX-STD User Manual](#)

[ZN-AIBOX-STD Quick Guide](#)

[ZN-AIBOX-STD PTZ AI App User Guide](#)

[ZN-AIBOX-STD CORTROL Integration Guide](#)

IP Discovery Tool

[iDevice Manager Discovery Tool](#)

AI Box demonstration Videos

[Learn how the Ganz AI BOX works](#)

[ZN-AIBOX-STD LPR](#)

[ZN-AIBOX-STD Thermal Tracking](#)

[ZN-AIBOX-STD Fall Detection](#)

[ZN-AIBOX-STD Counting](#)

[ZN-AIBOX-STD People Detection](#)

[ZN-AIBOX-STD Intrusion](#)

[ZN-AIBOX-STD Illegal Parking](#)





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v1.0.4

Regarding the ZN-AIBOX-STD, by design it is an embedded unit, which requires a more mindful design approach when planning to deploy.

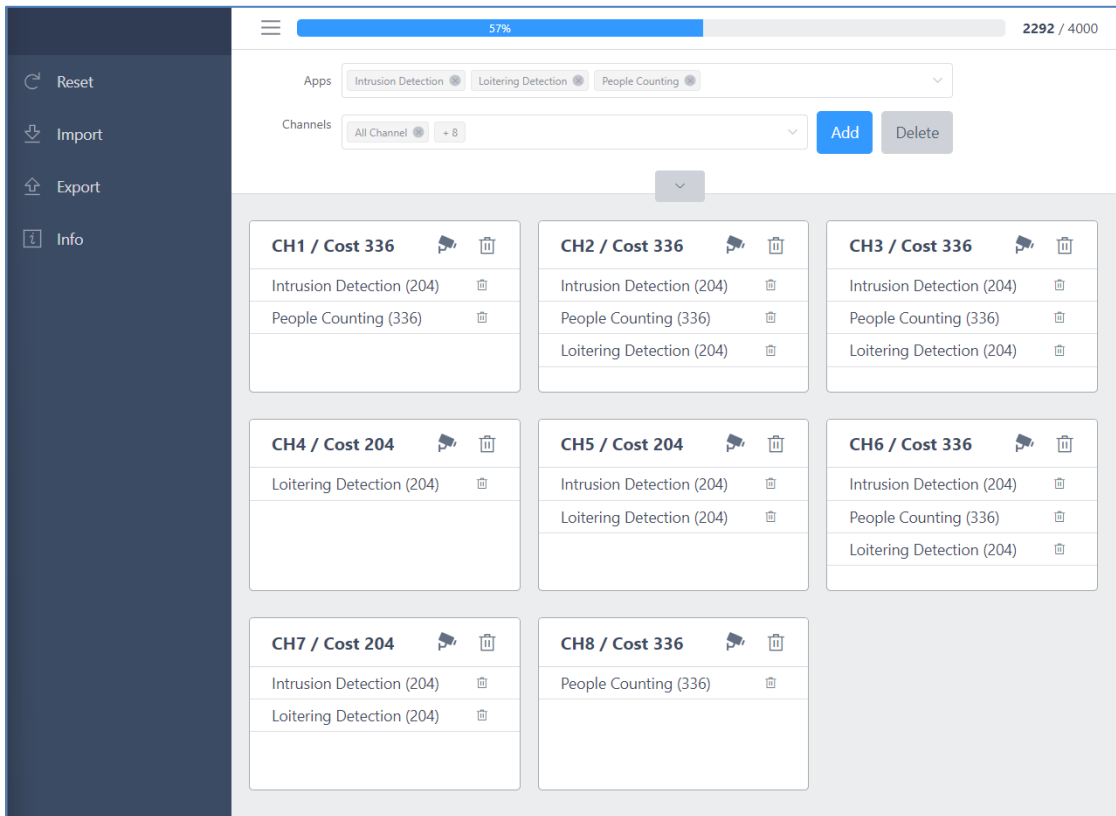
ZN-AIBOX-STD Intent and Planning

- To help approach a mindful ZN-AIBOX-STD based solution, Ganz has provided the following.
 - [ZN-AIBOX-STD Resource Calculator](#)

The Ganz ZN-AIBOX-STD resource calculator allows for designing a configuration with a mindful approach. A breakdown or overview of each section of the calculator is provided below.

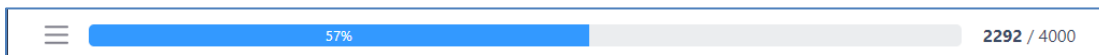
Section 1. Menus

- Reset: Discards any changes or reset the calculator to default
- Import: Import an existing configuration from exported from a stand along ZN-AIBOX-STD
- Export: Exports the resource calculator configuration for import into a ZN-AIBOX-STD
- Info: Calculation results are based on the latest F/W version.
 - AI Resource Usage calculation may vary depending on the F/W version
 - For accurate calculations, confirm with the specific ZN-AIBOX-STD F/W version.



Section 2. Configuration

- Meter: At top is the meter that indicates the percentage of used AI resources.





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- Apps: Apps selection is geared towards a defined the analytic targets to deploy.
 - Select one or many from “BASIC”, “ADVANCED”, and “ENTERPRISE”.

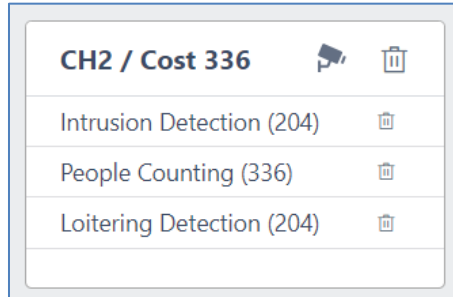
BASIC	ADVANCED	ENTERPRISE
Dynamic Privacy masking	Crowd Detection	LPR-US
Queue Management	Advanced Visitor Analysis	LPR-Europe
Heatmap	Hand & Foot Intrusion	LPR-JP
Intrusion Detection	Intentional Body Gaze Detector	LPR-KR
Loitering Detection	Imminent Threat	Advanced Heatmap
People Counting	Fallen Person Detection	No PPE
Vehicle Counting	Animal Detection	Illegal Dumping
Zone Counting	Fire & Smoke Detection	Violence Detection
Virtual Fence	Vehicle Type Counting	PTZ Tracking
Stopping Detection	Thermal Intrusion Detection	Forklift No Helmet
Stay & Go		
Occupancy Counting		

- Channels: Select from the following, “All Channel”, or any from “CH1 ~ CH8)”
 - Currently there is no option when in extended mode for calculating 16Ch’s.
 - Select “Add” after configuring for “Apps” and “Channels”
 - List channels will display selected “Apps”

Channel	Cost	Selected Apps
CH1	336	Intrusion Detection (204), People Counting (336)
CH2	336	Intrusion Detection (204), People Counting (336), Loitering Detection (204)
CH3	336	Intrusion Detection (204), People Counting (336), Loitering Detection (204)
CH4	204	Loitering Detection (204)
CH5	204	Intrusion Detection (204), Loitering Detection (204)
CH6	336	Intrusion Detection (204), People Counting (336), Loitering Detection (204)
CH7	204	Intrusion Detection (204), Loitering Detection (204)
CH8	336	People Counting (336)

- Channels:
 - Camera icon offers configuration for the “Video Format”.
 - Normal, Low Resolution, or Fisheye
 - Garbage icon offers deletion of a channel analytic.
 - Deletion per channel does not affect other channels.

- Next to the channel title is the total AI resource requirement
 - Example: CH2 / Cost 336
- Next to the App entry is indicated their individual AI resource requirement
 - Example: Intrusion Detection AI resource requirement is (204).



Channel	AI Resource Requirement
CH2 / Cost 336	
Intrusion Detection	(204)
People Counting	(336)
Loitering Detection	(204)

Section 3. Channel extension mode

- Extending the device from the standard 8 channels into the 16-channel mode will limit performance and make some applications unusable.
 - When the ZN-AIBOX-STD is set to the channel extension mode, hardware and AI resources are reduced.
 - The effect on channels: There is a loss of streaming video channel output. 16 channels of video can stream into the AIBOX, but no video can stream out.
 - The effect on alarms: There is no loss on the number of available alarm outputs. The AIBOX can still output 16 alarm channels, allowing event notification.
 - The effect on Apps: With the reduced AI resources, only “Basic” apps are available. This impact is considered marginal, with deployments typically utilizing basic apps.
 - Note: A common misconception is to look at the channels offered by the ZN-AIBOX-STD and assume all will be available. Due to the combined AI resource requirements per configuration, not all channels may be usable.