

ngaro® Sentinel v2.0

Perimeter Surveillance Video Analytics for
Thermal Cameras

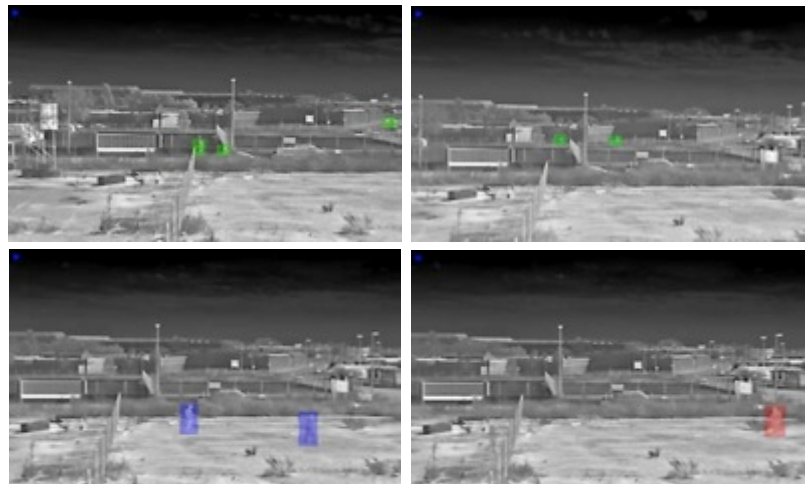
Ngaro Intelligent Solutions. Is the leading developer of video analytics for thermal cameras, with over fifteen years of experience on the sector. Our analytics are orientated to protect and control infrastructures, population and industrial and mechanical processes and our experience with thermography together with the excellent performance of our analytics, guaranties efficiency and profitability to our clients and partners.

Ngaro Sentinel 2.0

Advanced system for intrusion detection on restricted access areas

Detection Alarms included in one license:

- Intrusion
- Prowling
- Dropped / removed object
- Frontier crossing
- Stopped vehicle
- Vehicle driving against traffic
- Invasion



Industry Applications:

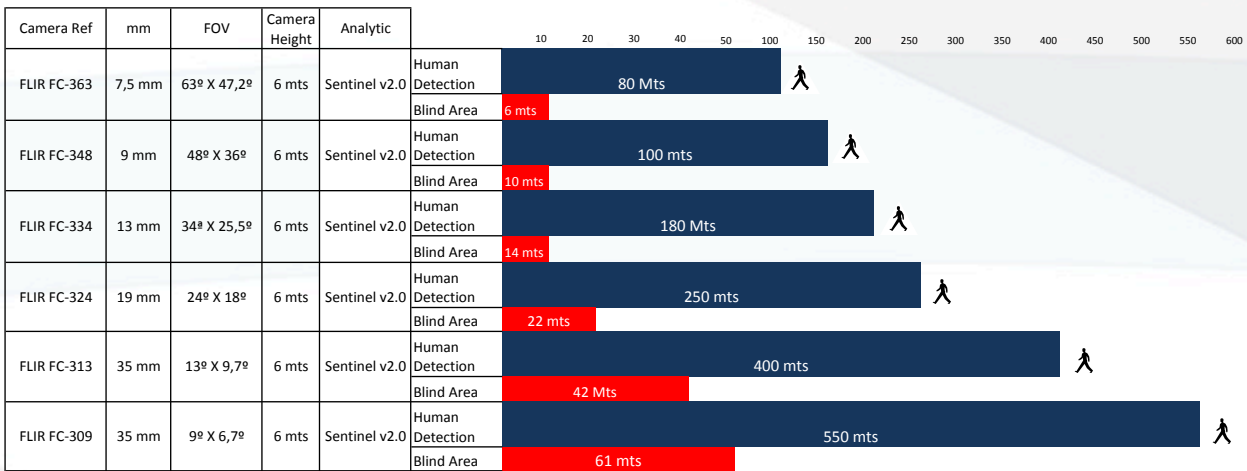
- Perimeter Surveillance
- Prison surveillance
- Frontier/ border control
- Critical Infrastructures
- Residential areas surveillance
- Tunnel Surveillance
- Railway & Subway surveillance

Key Differences

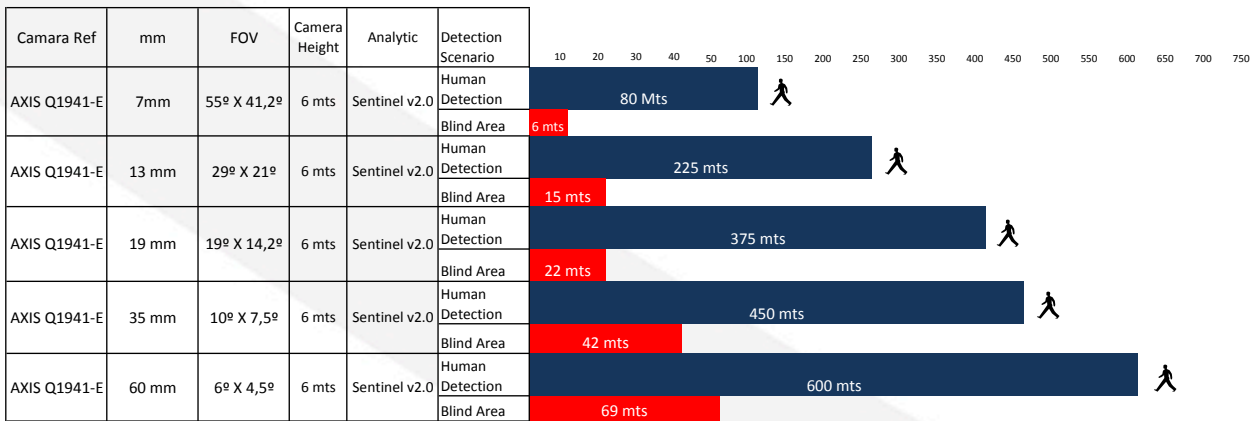
- Automatic **3-D radiation analysis** of objects on scene. **Beyond video analytics.**
- **Specific algorithms for thermal imaging**, not algorithms adapted from CCTV
- **Increases detection & recognition range. Minimum target size: >1 pixels.**
 - **Saves 45-55% the number of thermal cameras** compared to other analytics
 - **Saves 80-90% the number of CCTV cameras** compared to other CCTV video analytics
- Minimum **False alarm rate (2-5% rate over total alarms registered).**
 - **Discriminates objects by size (objects measured on mts)**
 - **Discriminates objects by behavior.**
- **Alarm positioning on real UTM coordinates and on real-time. Camera triangulation NOT required, just one camera needed**
- **Certified with principal camera manufactures.** Axis, Flir, Opgal, Raytheon, Pelco, Nec, DRS. Dahua
- **Integrated with principal VMS** on the market- Milestone, Genetec, Geutebrück, Ganetec, Desico
- **Integrated with principal ARC Software**, Manitou, Mastermind, SoftGuard
- **Generic Camera Mode.** Communicates with every camera on the market, without integration required
- **Domotion.** Automatic domo/s camera positioning for video verifying
- **Configuration & performance based on meters**, not on pixels
- **Software License**

Detection Ranges

Ngaro Sentinel Analytics Detection Ranges with FLIR FC Series



Ngaro Sentinel Analytics Detection Ranges with AXIS Q-1941 Series



* Human Detection. Detections obtained on Adverse surface and weather conditions.

- Outside Temperature: 40°C
- Weather Conditions: Sunny
- Time: 15 hrs.
- Surface: Asphalt

** Blind Area. Understood as the area from the camera pole and the point where the camera starts detecting

Technical Details

All our licenses are OEM format (Software) which could be installed on any equipment which covers the following requirements:

Up to 8 cameras: Intel Core i5 dual core with 4GB RAM; Windows XP o superior; recommended: Graphic card with OpenGL 2.0; Ethernet port

Up to 16 cameras: Intel Core i7 dual core with 8GB RAM; Windows XP o superior; recommended: Graphic card with OpenGL 2.0; Ethernet port

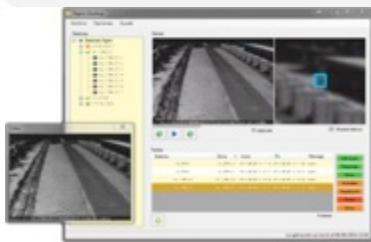
Complementary Tools

Ngaro Domotion. Automatic management & positioning of dome/s camera/s for video verifying. Includes algorithms to automatically position the camera with better view and capable to establish priorities among domes to follow the target with one or several cameras simultaneously.

Ngaro® Beholder Ngaro® VMS allows the operator to monitor and manage the information provided by Ngaro Analytics or third party VMS.



Alarms status and operative verification module compatible with Ngaro® systems



Module to monitor the status and operation of the surveillance system over digital cartography



Application for simultaneous display of thermal and CCTV video streams with OSD overlay of alarms



Compatible Cameras



Compatible VMS



Compatible Alarm Reception Software

