

CERAMICS HOUSE Straldja (Bulgaria)

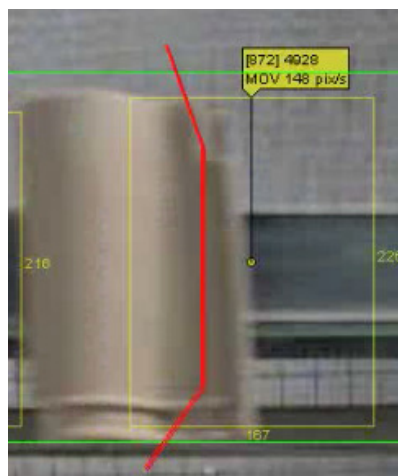
The CERAMICS HOUSE Straldja in Bulgaria makes use of the NETAVIS Observer 3 video analytics toolbox iCAT to monitor their production output.

Industry:
Production

Location:
Straldja, Bulgaria

Applied modules:
Observer 3 Enterprise,
iCAT video analytics toolbox

Technical data:
20 Axis network cameras



"The flexibility and quality of the NETAVIS system, when it comes to adapting the iCAT object counting functions to our needs in the CERAMICS HOUSE, deeply impressed me."

Jordan Tenev
Sole owner of CERAMICS HOUSE Straldja

The challenge

CERAMICS HOUSE Straldja is the only producer of ceramic roof tiles in Bulgaria. The company was founded in 1995, is fitted with modern equipment and has a yearly production of 44 million tiles. About 60 employees work in CERAMICS HOUSE Straldja during the year (www.ceramicshouse.com).

In order to provide a safe working environment and to analyze the production output, the CERAMICS HOUSE Straldja was searching for a video surveillance system that is beyond the scope of classical CCTV solutions. In addition the solution should be able to generate high resolution live as well as recorded images.

The solution

The CERAMICS HOUSE Straldja decided to implement the software platform Observer 3 including the video analytics toolbox iCAT, that works with analogue and IP cameras. Furthermore iCAT provides powerful and easy-to-configure object detection and tracking mechanisms as well as a statistics module with integration to the event management system. It works in difficult situations and also with various camera perspectives. By using the video analytics toolbox iCAT, it is possible to generate reliable information about the production output of the CERAMICS HOUSE and thus enhance the additional value of conventional video surveillance solutions.

Regarding the choice of camera hardware the CERAMICS HOUSE Straldja relies on Axis cameras. The production plant is equipped with 19 net-

work cameras (with permanent recording) and 1 counting-camera.

The benefit

In addition to classical video surveillance, the roof tile factory in Straldja relies on the object tracking functionality of iCAT, deploying herewith the unique Smart Tripwire© technology of NETAVIS. This technology prevents double and incorrect counting of objects. An iCAT Smart Tripwire© is directional and only counts objects that have been detected in the source area first and then move across. Thus, not only people but also objects can be counted.

Therefore, this technology gives the customer a clear picture on the factories performance. In case of the CERAMICS HOUSE in Straldja, up to 4.000 objects can be counted per hour with this unique technology. The hourly error rate of the iCAT algorithm is as low as only 5 - 6 wrong counts (approx. 1,5 ‰). Consequently, the installed NETAVIS system offers an added value that is far beyond the scope of classical CCTV solutions.

Another advantage of the installed NETAVIS system are the improvements when it comes to the resolution quality of recorded images. Moreover the software Observer 3 allows a fast access to stored data as well a posteriori utilization of these data.

Thanks to the scalability of Observer 3, the video surveillance system can be extended easily and without any problems. Therefore the system in Straldja will be extended and applied in other locations, as well.