

# Tree surgery/ Arboriculture



## Tree surgery/ Arboriculture with Dino-Lite

“Dino-Lite  
provides the  
evidence”

Ron Schraven, head of Tree Diseases and Infestations [BTL Bomendienst](#), The Netherlands: "Tree Surgery is changing. Where once the saw or knife disappeared into the wood, new less invasive methods are used and investigation comes before operation. BTL Bomendienst in Apeldoorn, the Netherlands is specialized in Tree diseases. With the help of Dino-Lite, they can identify diseases and capture images."



BTL Bomendienst is one of the biggest tree specialists in the Netherlands. The company has 30 employees and is organized in three divisions: Tree Consultancy, Specialist tree care and Diseases and Infestations. Ron Schraven is Head of Tree diseases and Infestations of BTL Bomendienst. To him, terms such as dieback, chestnut bleeding disease and massaria are his daily work. They are tree of the important tree diseases in the Netherlands. Schraven: "Such diseases affect the tree so that the tree will eventually die. That in itself is a loss because a tree or trees define the landscape and trees produce oxygen by introducing carbon dioxide. Most of the trees are located in the public space and the safety of the public space is often a matter of the municipality. A diseased tree can fall or pose a danger because of falling branches, so for many municipalities we identify how vital the trees are, we identify which trees can be a potential danger and which trees need immediate treatment. This work is impossible without proper research in the field."

### **Documentation**

To determine a possible tree disease well, Schraven and his staff go into the field with a laptop and a Dino-Lite microscope. "The research is in the field because we can only use fresh samples to work with. Samples that have already dried up cannot be properly investigated", said Schraven. A



sample taken in the form of a slice of wood can be studied on the spot with the Dino-Lite. The aim is to detect the disease at the earliest possible stage. A disease can manifest itself for example by changes in the wood structure or discoloration. Schraven: "With the

"Dino-Lite is a reliable and affordable digital microscope that does exactly what it is designed to do."

Dino-Lite connected to a laptop we can analyze faster and better because we can view the image on the laptop right away. We can save the picture which is a very important function for us, as we have to report our findings on paper and this is usually presented to people who have less knowledge of tree diseases. By adding the images made with the Dino-Lite in the report, we can visualize and demonstrate the problem. Dino-Lite thus provides evidence of the disease that was identified and because of this Dino-Lite is now a permanent part of our standard practice. We opted for Dino-Lite because of the mobile nature of the microscope, the built-in LED lighting and the fact that you can store image on a laptop. It is a reliable and affordable USB microscope that does exactly what it is designed to do."

