

## CASE STUDY

# DURABOOK DEVICES DEMONSTRATE TECHNICAL EXCELLENCE FOR RADIOGRAPHY SPECIALIST

### CUSTOMER

TWN Technology

### CHALLENGE

TWN Technology's hardware needs to be robust, reliable and able to withstand the many environmental challenges facing engineers working in both land and offshore field conditions.

### SOLUTION

The Durabook U111 rugged tablet



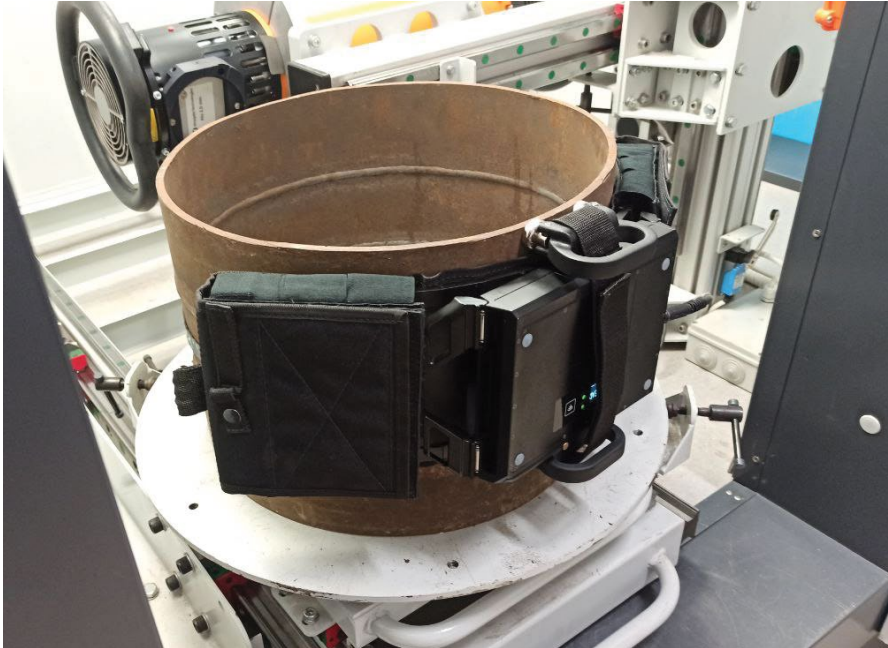
## INTRODUCTION

Headquartered in Tallin, Estonia, TWN Technology is a non-destructive testing equipment specialist providing state-of-the-art technology to the oil and gas, aviation, power and marine industries. Extensive experience in the field of non-destructive testing has allowed TWN to accurately identify the main qualities required by its equipment; high product quality, affordable price, measurement accuracy, reliability of operation.



This prompted TWN to create its own production and technical department, giving partners an exceptional product experience. Today, the focus is implementation of advanced digital radiography systems, using flexible and flat plate detectors, automatic piping inspection systems, and film digitisers. One of TWN's greatest assets is the NOVOSCAN software, which is made by engineers for engineers.





“Any product has to show its best side before it can be used, and the Durabook tablets did a great job - even upon unpacking, it was obvious what a quality product these devices are. The U111’s sturdy construction, excellent materials, high quality screen with high clarity and the best colour reproduction, all mean the user experience has been nothing but the best. An indisputable advantage for me is the ability to quickly change the battery, allowing you to work continuously, while the variety of accessories, versatility and durability of these tablets allow us to find the best solution for any tasks.”

Anton Nosyrev, Sales Manager  
at TWN Technology

## THE CHALLENGE

As a manufacturer of systems for digital radiography, TWN Technology’s systems are widely used in the oil and gas, shipbuilding, aircraft industry, and construction sectors. Non-destructive testing engineers work in specialist laboratories and encounter the most hazardous weather, where temperatures range from -35 to +40 degrees Celsius (-31 to +104 degrees Fahrenheit) and conditions vary from snowstorms to heavy rain.

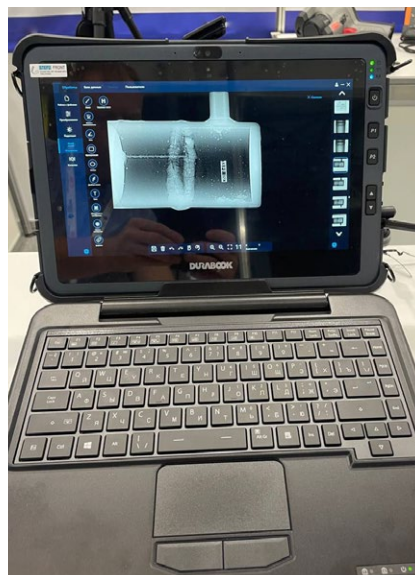
To work in these conditions, engineers need devices that are reliable, robust and convenient to operate. Some of the primary problems encountered with previous tablets were; short operating times, interface and system errors, inconvenient device format, lack of customization, fragile design, reduced temperature ranges and occasional freezing.

## THE SOLUTION

Durabook was recommended by several staff members who had previously worked with their devices and several Durabook U111 rugged tablets were purchased.

The new tablets were immediately incorporated into the demonstration sets of the NOVOSCAN digital radiography systems and showed instant results. The tablet’s powerful hardware allowed the software to run smoothly, eliminating the possibility of any errors in the operation, and one battery charge was enough to demonstrate all the advantages of the system while showing the different X-ray images.

Some key outcomes have been that, by using Durabook devices, the average time to inspect a part has been reduced by 10-15 seconds, and over the course of a whole day, the time savings can be up to an hour, which in turn is critical for non-destructive testing engineers. Also, exceptional



capacity of the handheld device means that the user can now use TWN’s measurement software on the tablet as comfortably as possible.

When working in the field the devices also showed themselves at the highest level, not giving out any critical errors when working both in rain and heat. The tablets also proved to be at their best during normal routine work in the office. A comfortable and responsive touch screen, excellent color rendering and screen brightness, numerous connection ports and a comfortable keyboard for work and printing have improved daily operations.

The tablet’s rugged enclosure also allows customers and engineers to use the digital radiography systems in almost any environment without worrying about the operation of any component.

Incorporating Durabook’s devices into their hardware armoury allowed TWN to eradicate several issues previously encountered, including short run times, low temperature range, uncomfortable and flimsy tablet design, lack of customisation and low power.

All of the above makes the Durabook U111 tablets a versatile device partner for TWN’s office staff field operatives.