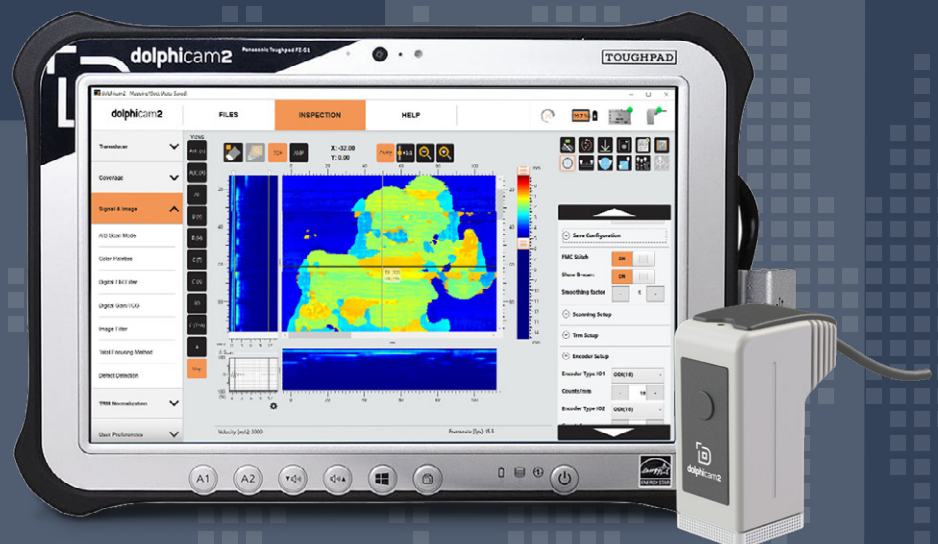


# DOLPHICAM2 PRODUCT SPECIFICATION

The dolphicam2 is capable of high-resolution imaging and precise measurements for a wide range of material types including composites, metals and multi materials.

With a straightforward, quick to deploy, user-friendly system, technicians of all experience levels can generate analysis-ready images of materials in real time for quick decision making.



# Black Box and Rugged Tablet

The dolphicam2 consists of a rugged 10" Panasonic Toughpad FZ-G1 tablet computer with a combined table stand and Black Box mounting bracket on its rear.

Kick stand allowing you to prop your device at almost any angle that's convenient for you.



## Features

- ✓ Ergonomic & mobile
- ✓ Can connect to external PC
- ✓ Audio buzzer
- ✓ Bluetooth
- ✓ Wi-Fi
- ✓ Camera

## Size and weight

Toughpad,  
Black Box and TRM 3.01kg

Size (including  
neck strap) 300 x 188 x 70mm

Size (Black Box) 200 x 130 x 32mm

Size (Toughpad) 270 x 188 x 19mm

## Technical details

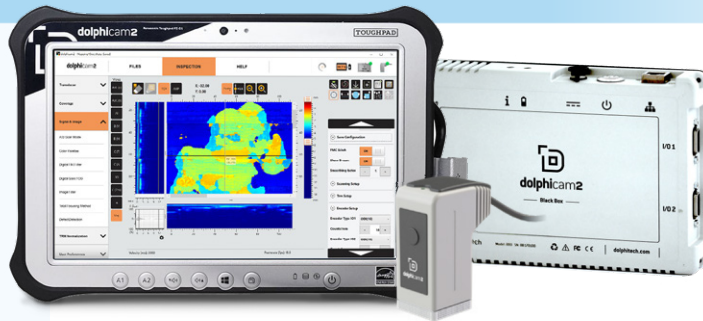
Transducer ports 2x USB C

Other connections Ethernet

Battery 6-8 hours

Ingress protection IP66

PC/Host port USB C



**The Toughpad has a daylight-readable display with gloved-multitouch and waterproof digitizer pen.**

The Black Box and Toughpad are joined by a sturdy metal frame. The whole system is reinforced to withstand daily site use. Self contained lightweight and portable and comes in a self- contained ruggedized pelicase



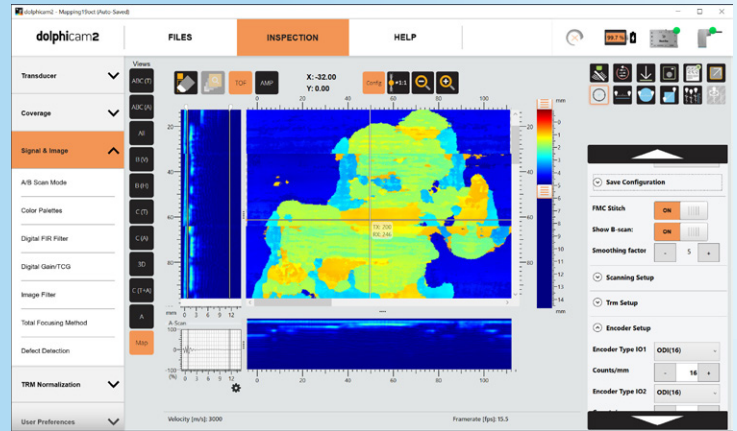
The Black Box itself is the heart of the system, driving the TRM while connecting to the Toughpad which runs and displays the software.

**The unit has been tested to withstand drops from 1.3 meters. It has IP66 ingress protection and long battery life (6-8 hours in normal use).**

The Toughpad is equipped with an Intel i5 CPU, 8GB of RAM and a 256GB SSD.

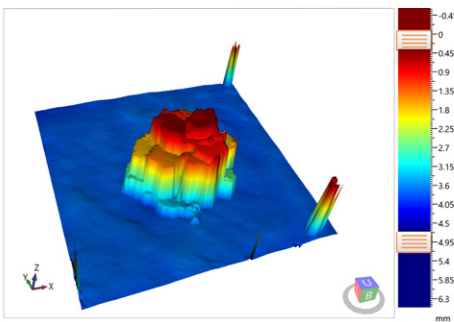
# Software

The dolphicam2 software is unique among NDT packages, designed from the ground up to complement the imaging capabilities of the platform (including Live C-scans). Ultrasonic images are shown not just using conventional signal amplitudes, but also as time of flight, opening up a world of instant, color-coded thickness mapping. This is helped further by the live 3D characterization view, which instantly enhance visualization and can be readily interpreted by different levels of end-users.



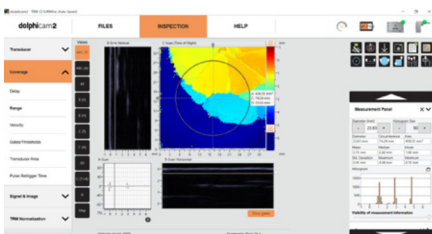
## Measurements

- Depth B-scan
- Line in C-scan
- Depth & Amplitude in C-scan
- Rectangle (Width, Height, Area)
- Circle (Diameter, Circumference Area)



## Views

- A-scan
- B-scan (vertical/horizontal, TFM)
- C-scan (Amplitude, ToF)
- 3D (ToF & Amp)
- Stitch view



## Features

- ✓ Live 1 Axis & 2 Axis Encoded Mapping
- ✓ Grid and free hand stitching
- ✓ Configuration setting files
- ✓ Full Matrix Capture (FMC)
- ✓ Total Focusing Method (TFM)
- ✓ TCG Functionality
- ✓ Digital Time Corrected Gain (TCG)
- ✓ Report configuration
- ✓ Defect Detection
- ✓ Histogram Statistical Data Graph

## Other General Functionality

- Color focus
- Reset settings to default
- Save screenshot
- Remote TRM activation
- Expanded view (hide config menu)
- Comfortable handle for portability
- On board, simple to use calibration function

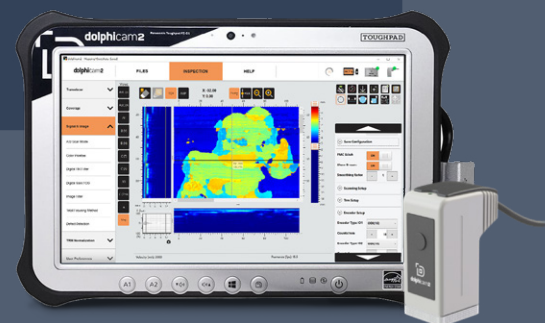


**dolphitech**

For maximum image quality we also provide Total Focusing Method (TFM) reconstructions, with TFM images available on both vertical and horizontal B-scanviews.

## Specification

|                                 |  |
|---------------------------------|--|
| Data transfer rate              | Up to 3.2 Gbit/s depending on transducer settings  |
| Effective data acquisition rate | 30 full data sets (128x128 A-scans) per second with typical settings   |
| Data processing                 | Low pass filter, data sampling, Total Focusing Method  |
| Visualization                   | Single element signals (A-scans), vertical cross sections (B-scans), horizontal cross sections and material thickness mappings (C-scans) and 3D.           |
| Adjustable settings             | Measurement unit, material depth, gating, material sound velocity, transmit pulse shape, gain, filtering and averaging, time corrected gain, color palette |
| Statistical data                | Mean (+Std. Deviation), Median, and Mode   |
| Data file format                | Open, HDF5 based file format   |
| Time Corrected Gain (TCG)       | 0 to 10 dB/μs  |
| Digital Gain                    | +50dB  |
| Averaging                       | 1 - 16   |
| Delay                           | 1 - 82 μs  |
| Depth                           | 1 - 120 mm @ 6,000 m/s   |
| Velocity                        | 100 - 20.000 @ 6,000 (list of velocity)  |
| Gates                           | 3 separate gates   |
| Amplitude threshold             | Threshold for each gate  |
| Capture method (for C-scan)     | Max Absolute / Negative / Positive   |
| A/B Scan Mode (RF)              | Full, Absolute. Envelope   |
| Color palettes                  | (Jet, gray, grav-inv, autumn bone, winter, rainbow, ocean, summers, spring, hsv, pink, hot, customizable)  |
| Image filter                    | None, gaussian, median   |



## MORE INFORMATION

Want to learn more about what you can do with the dolphicam2

Contact us to arrange a 10-minute demonstration with one of our expert consultants to understand how you can utilize dolphicam2

[sales@dolphicam.com](mailto:sales@dolphicam.com)



**NDT-NET Sp. z o.o.**

ul. Czeremchowa 75,  
20-807 Lublin

+48 533 18 60

[biuro@ndt-net.pl](mailto:biuro@ndt-net.pl)

[www.ndt-net.pl](http://www.ndt-net.pl)