

'Go/No-Go' Dent & Bump Mapping with real-time Visual Feedback



Approved on all for all
A3xx

AIRBUS
SRM Compliant

Recommended for all
7x7, MD and DC

BOEING
SL Compliant

Recommended for all
Q400 / Dash-8

BOMBARDIER
NDTM Compliant

Image Courtesy: Delta Airlines

WHAT IS IT?

dentCHECK[®] is the only OEM-certified 'Go/No-Go' tool for 3D dent-mapping. Purpose-built for airlines and MROs, the tool revolutionizes dent-mapping – fast, accurate and simple – just point&click. Compared to traditional methods, dentCHECK[®] delivers time savings in excess of 90% for dent-mapping and reporting. *Zero programming, zero post-processing, no surface preparation.*

HOW DOES IT WORK?

dentCHECK[®] measures and analyzes dents, bumps, lightning strikes and blend-outs on metallic, composite, curved and flat surfaces. All results are instantly projected (super-imposed) on the aircraft surface, in SRM compliant format, e.g. damage width/length, dent depth/bump height and the critical A/Y ratio. *The Measurement Surface Becomes the Screen™!*

WHAT ABOUT DENT REPORTS?

The standalone *Dent Reporting Tool (DRT)*[™] software is extremely powerful and easy-to-use. It allows engineering teams to create quick and detailed SRM compliant damage reports using inspection results from the dentCHECK[®] dent-mapping tool. Easily annotate critical distances, coordinate symbols, deepest cross-sections etc. – *all in less than 5 minutes!* This digital report can be submitted to OEMs as an auditable record.



Image Courtesy: TAP M&E

Optically measure Surface and mark up Defects in Seconds

| <i>Performance Overview of dentCHECK®</i> | | | |
|---|----------|--|--|
| Field of View (FoV) | | 18 x 32 cm / 7 x 12.5" (adjustable) | |
| Resolution | Diameter | 250 µm / 0.01" | Continuous dent & bump inspection (pixel by pixel basis) |
| | Depth | 25 µm / 0.001" | |
| Accuracy | Diameter | ± 1.0 mm / 0.04" | (at 95% (2σ) confidence interval) |
| | Depth | ± 50 µm / 0.002" | |
| Acquisition Time | | minimum 100 ms enables handheld operation | |
| Measurement Speed | | as fast as 2 seconds | |
| Battery Life | | up to 4.5 hours (still usable while charging) | |
| Nominal Working Distance | | 50 ± 5 cm / 20 ± 2" | |
| Weight (without tripod) | | 4 kg / 8.8 lbs (with integrated CPU and battery) | |
| Dimensions | | 35.4 x 30.0 x 9.0 cm / 13.9 x 11.8 x 3.6" | |



Image: © 8tree

Summary of dentCHECK® Capabilities:

- Measures **dents, bumps, blend-outs, lightning strikes**
- Works on **metal, composite** and **rainy** surfaces
- Actionable '**Go/No-Go**' answers in seconds
- Point & Click – designed for **any skill level**
- Accuracy traceable to **National Standards**
- Approved and listed in **Airbus TEMs**
- **Handheld-portability:** work effortlessly in **workshop, hangar, tarmac**
- Built-in radio **remote control**
- Fully **self-contained** and tetherless: no external cables, computers or power source
- Fully networked tool – built-in **WiFi, USB, Bluetooth** – real-time **wireless** transfer to Engineering

TELL ME MORE!

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 Technical Data are subject to change without notice