

FEATURES

- Anti-bacterial coating
- Anti-scratch
- Anti-fingerprint
- Up to 80" diagonal
- Can be retrofitted
- CNC cut to any shape and size

CHECKVUE Range ANTI-BACTERIAL PROTECTION FOR TOUCH SCREENS

Helping to protect your touch screen, killing 99.9% of all bacteria and pathogens with a silver nanoparticle coating

The **Problem**

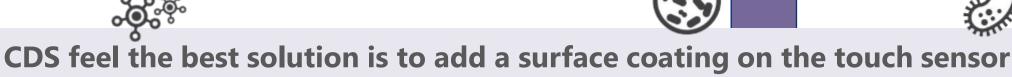


There have been an increasing number of articles discussing the effect of surface cross-contamination during the use of touch screens. The COVID-19 pandemic has highlighted this issue further

One thing is for certain, that the **use of touch screens is here to stay,** so CDS have looked into how to protect the user from this contamination

Like many other suppliers we have investigated tuning the touch screen so that the **touch is activated slightly above the surface of the glass**, but this would be no more than 5-10mm and realistically someone using a touch kiosk will not be able to have the time vs motor skills to control this level of accuracy and will almost certainly still touch the surface glass





CDS feel the best solution is to add a surface coating on the touch senson and after market research we are now able to offer a nano-cell silver coated filter protection our sensors

CDS

The CDS-ABF anti-bacterial film properties

The CDS-ABF anti-bacterial films have a propriety hard coating which kills 99.9% of bacteria and pathogens. The hard coat incorporates pure metal nano-technology which prevents bio-film colonization on the surface. The surface treatment will kill pathogens such as MRSA, E-Voli and other virulent bacteria greatly reducing the risk od cross-contamination.

As a means of exogenous pathogen control the films are ideal for prevention of HAI (Hospital Acquired Infection), strains of bacteria becoming more resilient to antibiotics which is a serious health issue – the super bugs. Our AB1 film can be used on PCAP touchscreens in all areas where there is a risk of contamination.

The increase in use of touch screens where a large number of people are touching screens on a daily basis, requires that these users are protected from infectious agents. Every measure should be taken to reduce the risk in public spaces and the workplace.

Product code	Film type	Total thickness	Adhesive	Peel adhesion (grams/in)	Tensile strength	Hardness	Construction
CDS-ABF-OC	100μΡΕΤ	120μ	Silicone	5	20	2H	Anti-Bacterial – Hard Coat
CDS-ABF-AG	100μΡΕΤ	120μ	Silicone	5	20	2H	Anti-Bacterial – Hard Coat – Anti Glare



The **Construction**

The CDS-ABF anti-bacterial films is a 100micron thick PET film with two surface finishes, either optically clear (OC), or anti-glare (AG), both versions have silicon adhesive which is easily removed. The films are anti-finger print, 2H anti-scratch and have an anti-bacterial treatment designed for all PCAP touch screens.

PRODUCT STRUCTURE

CDS-ABF-OC

Surface protection tape (PET 38µm)

Hard coat layer (5±2μm)

PET film (100μm)

Silicone adhesive (15µm)

Release film (PET 50µm)

CDS-ABF-AG

Surface protection tape (PET 38µm)

Anti-glare coating (5±2μm)

PET film (100μm)

Silicone adhesive (15µm)

Release film (PET 50µm)

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The **Application**

NEW BUILDS – CDS are able to fit this to new products being supplied. Contact our sales team to discuss your requirement. Either currently buying from CDS or if you are buying through another display specialist and would like CDS to offer a protected alternative.

RETROFIT – Where there is already an existing estate, the films are simple and easy to apply as a retrofit, either on-site or return to base. We already have big brand names either using or investigating using this technology for use in public facing food based kiosks as well as many other touch screen applications.

TOUCH TECHNOLOGIES – The film covers the front of the glass sensor, so any technologies which require the fronts glass to be touches (such as surface capacitive, SAW or resistive will either not work or have limited effect. Where customers are using these older technologies, CDS are also able to upgrade products with the modern PCAP technology which can accommodate the ABF technology.

CUSTOMISATION – All the films are CNC cut to size and CDS are able to accommodate customer shapes (e.g. rounded corners / cut outs, and stretched / round displays). Bespoke branded release liners are also an options based on volume.

The **Protection**



TESTING AGAINST BACTERIA – We have MEASUREMENT OF ANTI-BACTERIAL test reports showing positive protection results from a UK laboratory. The test was conducted according to the standard BS EN ISO 22916 which is the test for anti-bacterial performance on hard non-porous surfaces such as plastics, metal or glass. The tests conducted looked at the performance of the film against MRSA, E-Coli, Klebsilla Pneumoniae, and Streptococcus Pyogenes over a 24 hour period

TESTING AGAINST VIRUSES – Silver nanoparticles have mainly been studied for their antimicrobial potential against bacteria, but there are papers indicating that they are active against several types of viruses. Such a journal can be found at https://www.mdpi.com/1420-3049/16/10/8894/htm

NOTE – CDS do not promote this product as an ANTI-VIRAL protection film



CDS product guides

We have a number of different product guides available, please click on the guide cover below and we will arrange to send you the latest copy







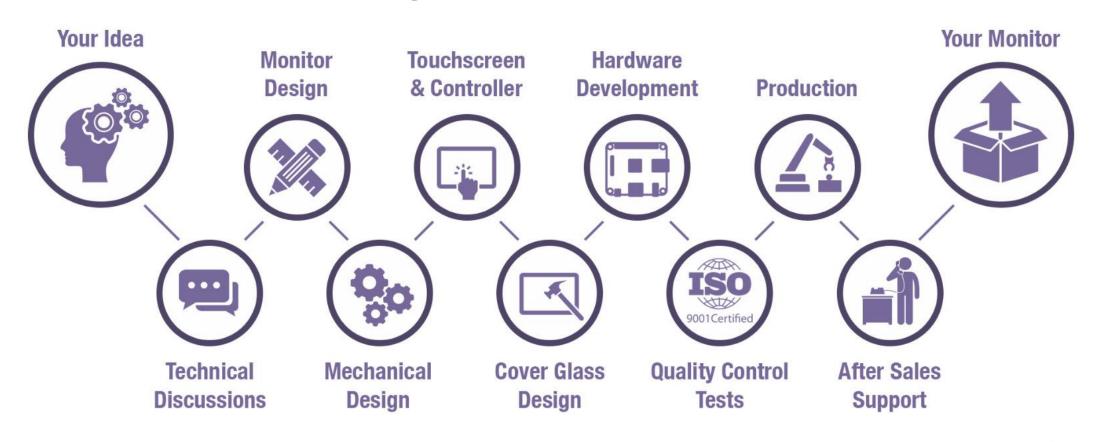


Crystal Display Systems is a leading designer, distributor & value added reseller of flat panel display solutions. Our expertise allows us to offer the best solutions to our clients and partners. We offer Industrial TFT LCDs, Retail Displays, Translucent displays, Touch screens, videowalls & many other digital solutions.



Custom monitor builder

We have direct links with OEM factories allowing rapid development, commercially competitive and have scalable production capability. From designing a replacement for a current product through to a complete design CDS has the resource available



DEVELOPMENT

of new products through out R&D team

AFTER SALES

Support for internal repairs and full technical backup

LEADTIMES

For production excellent compared to other manufacturers

EUROPEAN

design with Far Eastern pricing

CDS

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GLOBAL

production with factories in CHINA / TAIWAN /

BESPOKE

Touch monitor design

RAPID

Sample production quicker than most local suppliers

QUALITY

ISO9001 approved

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