



*Leader in Patent Analysis and Transaction Advisory Services*

# Optical Touch Screen

## Patent Acquisition Opportunity

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The information in this package is provided for the sole purpose of supporting the independent evaluation of these patents by prospective buyers, and does not constitute legal opinion or representation. Any discussion of the potential use of the patented inventions by particular products is for illustration purposes only and is not intended to be, nor should they be construed as, notice of, or any form of accusation of, infringement of any of the indicated patents by any products. In addition, the materials provided by GTT Group are copyrighted material and are intended for use by the receiving party solely for their use in determining whether to purchase the patents offered for sale by GTT Group and their participation in the sales process run by GTT Group.

### **Primary Contact**

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# Optical Touch Screen Portfolio



## Patents

15 US Patents  
1 US Application

## Relevant Markets

Touch Screen UI  
Waveguide Structures  
Optical Touch Screen  
Polymer Coating

## Evidence of Use

EOU materials will be made available under NDA.

## Making an Offer

Interested parties should make an offer as soon as they are able. Offers will be reviewed as they are received.

## Contact GTT Group

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## Opportunity Summary

- GTT Group is exclusively representing the sale of the Optical Touch Screen Portfolio.
- The portfolio contains 15 issued US patents and 1 US application in 9 patent families.
- The patented technology relates to optical touch systems, optical waveguide platforms and touch system gestures.
- The patented technology can be used in a wide variety of applications, including touch screens, LCD screens, augmented reality (AR) goggles, optical interconnect devices, as well as microfluidic for biomedical applications.
- Key assets relate to pattern-based unlock features found in electronic devices with touch screens.
- There are no encumbrances on the portfolio.
- GTT Group has developed evidence of use (EOU) materials that are available under NDA for qualified purchasers. Please contact GTT Group for further information.

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## Optical Touch Screen Portfolio

- The Optical Touch Screen Portfolio can be divided into four categories:
  - **Touch Screen User Interface**
    - The assets in this group relate to methods for interacting with a touch-sensitive screen. Key inventions disclose using a gesture-based user interface to access functions on a device. Given the widespread use of touch screen devices, the applicable market for the technologies claimed in this group of assets is very large.
  - **Waveguide Structures**
    - The technologies covered by this group of assets include unique waveguide structures with improved light transmission performance and fabrication techniques that ensures volume production of high-quality waveguides. The assets in this group are generally applicable to polymer waveguide structures that can be mass-produced using thin-film processing techniques. The claimed techniques have a wide range of applications that include optical interconnect devices, LCD screens, augmented reality (AR) goggles, microlens arrays, as well as microfluidic for biomedical applications. The market potential in AR optics applications is particularly exciting. Waveguide-based AR optics is relatively new in AR display technology and it holds the potential for producing smaller/thinner AR goggles at a lower cost than conventional curved mirror based technologies.

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## Optical Touch Screen Portfolio (cont'd)

- **Optical Touch Screen**

- These patents specifically target optical touch screen technologies, which have so far been relegated to small niche applications due to the high cost of production and wide bezel requirement. The optical touch systems covered by assets in this group have very high touch detection resolution compared to all other optical touch systems, useful for example for detecting pens with high accuracy and precision (e.g. signature capture). The system, compared to other optical touch systems, has smaller requirements for the width of the touch systems (outside of the display) and also has a much lower bezel height (gives a more 'flush' top surface for a device). Combined with the low power requirements, the Digital Waveguide Touch (DWT) system is ideally suited to mobile or battery operated devices.

- **Polymer Coating**

- Assets in this group broadly claim unique chemical formulations for optical polymers suited to forming high quality optical films on any substrate. In addition to optical interconnect devices, LCD screens, augmented reality (AR) goggles, microlens arrays, and microfluidic for biomedical applications, the formation of a uniform, high-quality polymer coating is also essential and fundamental to a wide range of large-scale, high-volume manufacturing processes such as semiconductor processing and LCD/OLED processing. Therefore, the potential market for this asset is large.

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## Transaction Structure

Seller prefers an all-cash transaction.

## Bidding

Interested parties are encouraged to make an offer as soon as they are able. Offers will be reviewed and responded to promptly. Priority will be given to offers received first.

## Submitting an Offer

Offers should be submitted in writing from an authorized party stating the price offered and any material condition(s) to closing.

## Pricing

No price floor has been set. Seller reserves the right to accept any offer and refuse any and all offers in its sole and arbitrary discretion. GTT Group is able to provide value guidance to qualified interested parties.

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## Non-Notice

Seller has agreed that the information provided to prospective purchasers throughout this sales campaign will not be used in any legal or administrative proceeding directed to enforcement of any patent associated with the Optical Touch Screen Portfolio.

## Encumbrances

No encumbrances exist for the Optical Touch Screen Portfolio.