

## HT-AG-01

### Anti-glare Molds

#### 防眩光模具

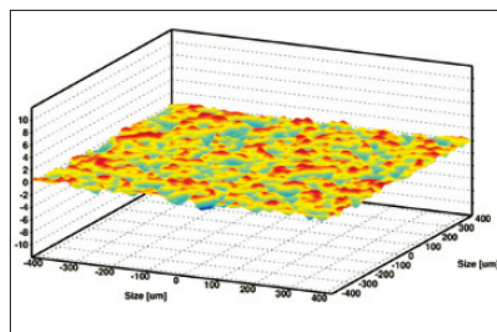
### Glare control with anti-glare surfaces

#### 防眩光表面的眩光控制



Microscope image

200  $\mu\text{m}$



Confocal microscope image

HT-AG-01 surfaces are used to control glare from displays, optical devices, but also non-optical surfaces. Disturbing reflections are suppressed, therefore the viewer easily sees the content displayed on a screen and not the reflected images of bright windows and light sources. Anti-glare surfaces are useful in bright environments, offices and under varying lighting conditions. Anti-glare surfaces can be produced on films without seamlines for large area applications. The HT-AG standard mold type was specifically designed for R&D work, as well as for product and process development.

HT-AG-01 的表面用于控制显示器、光学设备的眩光，也可用于非光学表面。干扰的反射被抑制住，因此观看者可以很容易地看到屏幕上显示的内容，而不是明亮窗口和光源的反射图像。防眩光表面在明亮的环境、办公室和在不同的照明条件下非常有用。HT-AG 标准模具主要为科研工作而设计，也可用于生产和工艺开发中。

Some of the most important additional features of HT-AG-01 surfaces are

- It is an ultrathin surface layer of only a few  $\mu\text{m}$  thickness
- Hides fingerprints
- Transmittance is as high as on glossy flat display

HT-AG-01 表面的其他一些重要特征:

- 它是一个厚度只有几  $\mu\text{m}$  的超薄表面层
- 隐藏指纹
- 透射率与在光面平板显示器的相同

### How HT-AG-01 works 工作原理

HT-AG is a specifically designed surface structure with an irregular surface pattern. It diffuses light into very small angles in order to suppress specular reflection from the surface while keeping the contrast high to ensure good readability of the display behind it. These holographic surfaces show a very high transmittance.

HT-AG 是一种特殊设计的表面结构，具有不规则的表面图案。它将光线扩散成很小的角度，以抑制来自表面的镜面反射，同时保持较高的对比度，以确保在它后面显示器的良好可读性。这些全息表面显示出很高的透射率。

### HT-AG-01 applications 应用

- Glare control on flat type display like desktop monitors, laptops, tablet PCs,
  - on public displays and signs,
  - on digital signage and e-book readers
- Touch membrane sensors
- Surface finish on furniture and home appliances
- and on industrial equipment surfaces

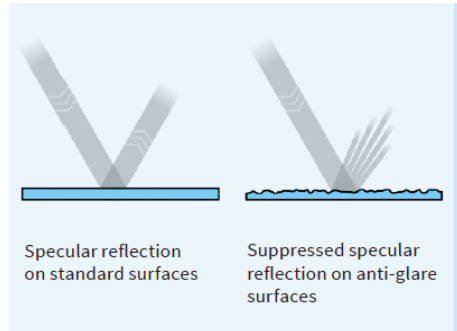
- 台式显示器、笔记本电脑、平板电脑等荧光屏上的眩光控制，
  - 在公共显示屏和标志上，
  - 在数字标牌与电子书阅读器
- 触摸膜传感器
- 家具和家用电器的光洁表面
  - 在工业设备表面

### Users of HT-AG-01 molds 用户

- Display screen manufacturers
- Film manufacturers
  
- 显示屏制造商
- 胶片制造商

### Specifications

Structure type	Anti-glare
Optical function	Suppression of specular reflections
Diffusion angle (FWHM)*	about 1°
Material	Nickel
Mold thickness	300µm +/-5%
Mold size	100 mm x 100 mm
Active size	80 mm x 80mm
Haze value **/**	2,23 % +/- 0,05 %
Transmittance **/**	92,2 % +/- 0,05 %
Structure amplitude	up to 4µm



Schematic diagramm



Comparison without/with anti-glare structure

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