



WATERMARK

VHP Security Paper  
(Paris, 1842)  
Title: HD Vision™  
v. 2021-2022  
The most significant innovation in  
watermark technology in 700 years.

# The Art of HD Vision™

by  
VHP Security Paper

*Introducing*  
**Luminous  
high resolution  
watermark security**



**What is HD Vision™?**

HD Vision™ is the sharpest and most secure watermark on the market.

The most significant innovation in watermark technology in 700 years, the exceptional definition, detail, and luminosity of HD Vision™ set a new standard in watermark technology and security.

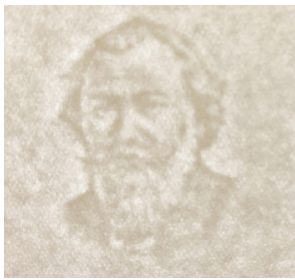
HD Vision™ brings to watermarks the same high definition resolution benefits previously obtained in audio & video by switching from analogue to digital technology.

**How does HD Vision™ work?**

To manufacture the watermarks on the papermaking machine, hundreds of computer-controlled micro perforations are drilled into a metal plate.

The perforated plate is welded to the phosphor bronze mesh of the mould cover and allows water to drain away, while controlling the retention of the cotton fibres and building up a complex tapestry of fibres.

In essence, HD Vision is a digitalisation of the traditional analogue multitone watermark, offering the same high resolution gains as those observed when we shifted from analogue TV to digital ones.



STANDARD WATERMARK



HD VISION™

### **How did HD Vision™ develop?**

After over two hundred years of making banknote security paper, VHP Security Paper in Apeldoorn, in the Netherlands, began working on the idea for HD Vision™ in 2010.

The classic method of embossing an image in a copper mesh is a relatively crude process that intrinsically leads to a loss of detail and contrast during production.

The increased resolution and quality of HD Vision™ watermarks is created with digitalisation technology and mathematics.

### **Why choose HD Vision™?**

When compared with traditional watermarks, the visual effect of an HD Vision™ watermark is brighter, more luminous, and has a pronounced tonality.

Easier to authenticate, HD Vision™ watermarks carry greater detail, contrast and definition than standard watermarks.

The HD Vision™ technique is available to any major security paper manufacturer under license of VHP Security Paper.

HD Vision watermarks have also proven to be more resistant to soiling than multitone ones.



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