

VRP & VRP-M HOLOGRAPHIC PLATES

Technical Specifications

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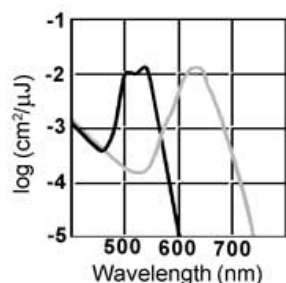
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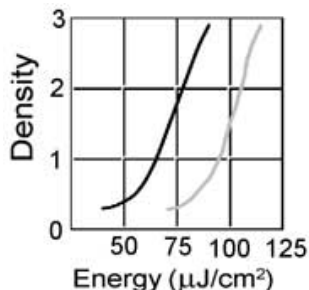
DESCRIPTION & SPECIFICATIONS

Fine-grained green sensitive holographic plates and film designed for reflection or transmission hologram recording. Average grain sizes 35-40 nm, resolving power is more than 3000 lines/mm, spectral sensitivity range includes 488 nm, 514 nm, 526 nm, and 532 nm, and emulsion thickness 6-7 μm . The maximum diffraction efficiency is >45%. The VRP-M optical sensitivity (to CW radiation) peaks at approximately 75 $\mu\text{J}/\text{cm}^2$.

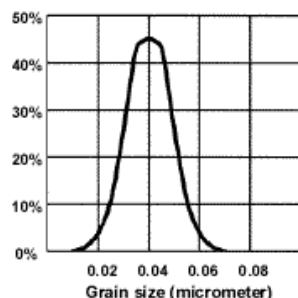
VRP has anti-halation backing is most appropriate for transmission holograms, while VRP-M does not have anti-halation backing is most appropriate for reflection holograms.



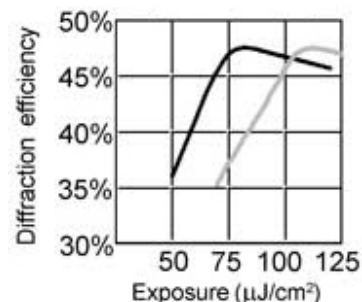
Spectral Sensitivity curves for VRP-M (left) and PFG-01 (right).*



Characteristic Curves for VRP-M and PFG-01.



Grain Size Distribution Curve for VRP-M and PFG-01.



Diffraction Efficiency Curves for VRP-M and PFG-01.

*PFG-01 is the red-sensitive (600-680nm) equivalent of the green-sensitive VRP. In each of the above graphs, the darker curve on the left represents VRP-M and the lighter curve on the right represents PFG-01.

SIZES

Plates available in different sizes:

- 2.5"x2.5" (63x63mm)
- 4"x5" (102x127mm)
- 8"x10" (203x254mm)
- 12"x16" (300x406mm)
- Custom sizes also available upon request.

Film available in different sizes:

- 4"x5" (102x127mm)
- 7.9"x9.7" (200x250mm)
- 12"x16" (300x400mm)
- 35cm x 10m
- 1mx10m
- Custom sizes also available upon request.

RECOMMENDED PROCESSING

The most commonly used developer and processing chemical used today for VRP and VRP-M is the JD-2 developer, available from Integraf (see http://www.holokits.com/jd-2_holography_developer.htm.) Kodak D-19 is also commonly used.

The VRP and VRP-M plates are manufactured in Russia by Slavich for Integraf LLC, an official international wholesaler and marketer for Slavich and other holographic materials, serving over 50 countries each year.