



# #320 HP PREMIUM HARDDOT CAMERA FILM

## Product Application

#1 Network #320 HP is a 4th generation HardDot camera film. #320 consistently produces sharp edged linework and halftones of the highest quality.

## Safelight

As an orthochromatic film, #320 is processed under standard Series 1A red safelight, or red filter sleeves with florescent tubes.

## Suggested Exposure (Linework at Same Size)

|                              |      |               |
|------------------------------|------|---------------|
| Quartz Camera Lamps          | F-22 | 15-20 Seconds |
| Pulsed Xenon<br>Camera Lamps | F-32 | 10-15 Seconds |

On a 12 step camera grey scale, expose #320 to a Solid step 4. Proper contrast of #320 is indicated with a light grey in step 5. Main exposure for halftones, is approximately 3 times the established linework exposure.

A normal flash test will determine correct exposure for shadow areas of halftones.

## Machine Processing

Deep Tank (Over 7 gal.)

|      |                   |
|------|-------------------|
| Time | 35-60 Seconds     |
| Temp | 80-90°F (26-32°C) |

Shallow Tank (7 or less gal.)

|      |                    |
|------|--------------------|
| Time | 35-40 Seconds      |
| Temp | 95-100°F (35-38°C) |

## Developer\*:

#1 Network HardDot Developer  
Mixed 1 part with 2 parts water

Temperature: 95°F / 35°C

Development Time: 30 Seconds

## Replenishment Rates

Developer: 45ml per square foot (1.53 oz.)  
Fixer: 35ml per square foot (1.2 oz.)  
#1 Network Universal Fixer Concentrate,  
3100 Fixer recommended with hardener.

## Tray Processing

#320 HP may be tray processed at 1:1 dilution.

**IMPORTANT:** HardDot films must be processed in a recommended "HD" developer diluted 1-part concentrate to 2-parts water. It is also important to replenish at the recommended rates. Additional "anti-oxidation" replenishment may be required. Total replenishment should equal **at least** 1/2 of the volume in the processor tank per week in "low load" situations.

Departure from these instructions may result in "pepper" or thin "pressure lines". Both artifacts are caused by a chemical imbalance. If pepper is encountered, you must dump the developer and increase replenishment.

## Note:

When you install new films or processor chemicals, it is a good ideal to run a few "Dr. Clean" cleaner sheets.

"Dr. Clean" cleaner sheets will virtually eliminate any potential for pinholes and ensure that every #1 Network film will look it's very best!

\*For optimum results, process in 4th generation chemistry diluted with 2 parts water.

#1 Network 2100 HD\* Developer  
#1 Network Rapid HD\* Developer  
Kodak RA 2000  
Fuji Forte HQ

\*HD refers to HardDot when mixed 1:2.

These developers are also rapid access developer, when mixed 1:3 or 1:4.