

Product Information Color Negative Film Vista plus 200

1. Features and Uses

Vista plus 200 (CN) is a daylight-type ISO 200 color negative film that incorporates the newly developed New Super Uniform Fine Grain Technology to achieve high image quality when printed on AgfaPhoto papers.

Features

• Excellent Grain Quality	Fine grain for a high-speed film, providing no loss of image quality even in large- size enlargements
• Wide Exposure Latitude	Stable results can be expected under a variety of photographic conditions
 Excellent Skin Color Reproduction 	Smooth, beautiful and naturally depicted skin tones
• Excellent Sharpness	Extremely sharp depic- tion of all aspects of the subject, from overall form to textural details

It requires no color-compensating filters when used under daylight conditions or with an electronic flash.

2. Speed

Light Source	ISO Film Speed	Color Balancing Film
Daylight	200/24°	None
Tungsten Light (3200K)	50/18°*	Wratten No. 80A (or LBB-12**)

* Indicates the effective speed resulting from designated filter use

** Vista Light Balancing Filter

3. Film Sizes, Production Number, Base Material and Thickness

Size and Package Configuration				uction nber
Roll	135 12-, 24- and 36-exp.		C74 abo	
	Base Material	Base Thic	kness	
Roll	Cellulose Triacetate	122µm (135)		

4. Exposure Guide

Use an exposure meter for exposure determination. If a meter is not available, refer to the following table.

Daylight Exposures Guide Table

Light Conditions	Seashore or snow scenes under Bright Sun	Bright Sunlight	Hazy Sunlight	Cloudy Bright	Cloudy Day or Open Shade
Lens Aperture	f/16	f/16	f/11	f/8	f/5.6
Shutter Speed (sec.)	1/500	1/250			

Notes: • The foregoing settings are for 2 hours after sunrise and 2 hours before sunset.

• For close-up shooting against light, open up the lens 1 or 2 aperture stops.

Low Light Exposure Guide Table

Light Conditions	Fine Weather Daytime Indoor Scenes	Nighttime Indoor Scenes (under Fluorescent Light)	Evening Scenes	Night Scenes
Lens Aperture	f/2.8 to 4	f/2 to 2.8	f/2.8 to 4	f/2 to 2.8
Shutter Speed (sec.)	1/30			

Notes: Since light intensities for indoor and night scenes vary widely from location to location, the data above should be used only as a guide.



5. Exposure for Various Light Conditions

Daylight

Even when exposed under morning or evening twilight conditions or when color temperatures are low, no special filter use is needed as color balancing can be done during printing.

Electronic Flash

Electronic flash produces light similar to daylight, so filters are not needed. However, the possibility of undesirable affects on color balance, due to various factors (the type to flash used and amount of time used, etc.) should be taken into consideration. Test exposures are recommended.

If shutter speeds slower than 1/60 second are used, light from non-flash sources, such as room lighting, may cause color imbalances. Make test exposures. The use of a flash meter is advisable, but the following formula can also be used to obtain satisfactory lens opening.

Lens Aperture =	Electronic Flash Guide Number (at ISO200)
(f-number)	Electronic Flash-to-Subject Distance (meters)

When using an auto flash unit, the ISO film speed setting should be set to 200. Since the amount of light on the subject may vary according to amount of light reflected from surrounding surfaces and other factors, follow the instructions provided with the flash unit.

Daylight Photoflood/Photo-Reflector Lamps

- Daylight-type photoflood or photo-reflector lamp output may be lower than that indicated by the exposures meter. It is recommended to compensate for the difference by increasing the exposure time (by lowering the shutter speed) or by increasing the lens opening. Whenever possible, test exposures are recommended.
- Other factors that should be considered when determining the exposure settings are lamp configuration, length of time used and line voltage, as they may affect lamp output and color balance.

Fluorescent Lamps

Photographing under fluorescent lighting may result in a greenish tint.. However, this phenomenon is corrected during printing, thus achieving opitmal finishing quality. For this reason, additional use of correction filters ist not required. A slow shutter speed of less than 1/30 second is recommended.

Tungsten Lamps

When using 3200K tungsten lighting, use a Wratten filter No. 80A (AgfaPhoto LBB-12* filter) and increase the lens opening by +2 stops. In the case of cameras with TTL metering, there is no need for additional exposure compensation.

* AgfaPhoto Light Balancing Filter

6. Long Exposure Compensation

No exposure or color balance compensation ist required for exposures within a 1/4000 to 2 second shutter speed range. However, for exposures of 4 seconds or longer, provide the compensations indicated below.

Exposure Time (sec.)	1/4000 to 2	4	16	64
Exposure Corrections*	Unnecessary	+1/3	+2/3	+1

*A "+" followed by a number indicates the required increase in lens opening.

Except for special effects, the normal intensity ratio for main-to-fill subject lighting should remain within 1:4 limits.

7. Exposure Precautions

When using an accessory such as a reflector umbrella, reflector or diffuser to control light intensity or diffuse the light, make sure that no change has occurred in the color or composition of the accessory's materials or reflective surface, and that the color of the light has not been altered by the material.



8. Unprocessed Film Handling/Storage

Handling

- Expose film before the expiration date indicated on the film package and process as soon as possible after exposure.
- Roll film should be loaded and unloaded quickley and away from direct sunlight.
- Film loaded in cameras should be exposed and processed promptly.
- X-rays inspection machines used to inspect checkedin baggages at airports can cause fogging of film. Put both exposed and unexposed film into carry-on baggage (preferably in a transparent plastic bag or a net bag that allows the film to be seen). Because of the increasing number of airports using strong X-ray machines for carryon baggage, it is recommended that you remove film from your carry-on baggage and request a visual (manual) inspection of your film.
- Film fogging may occur near X-ray equipment used in hospitals, factories, laboratories and other places where radiation is used. Always keep film away from sources of radiation.

Storage

Storing exposed or unexposed film under hot and humid conditions may adversely affect the speed, color balance and physical properties of the film. Althought it is best to store the film at a low temperature, for practical purpose, film should be stored at follows:

Short-term Storage	Store at 15°C or below
Long-term Storage	Store at 0°C or below

- New building materials, newly manufactured furniture, paints and bonding agents may produce gases which could affect fotografic film. Do not store film, lightproof boxes containing film or cameras or film holders loaded with film near these materials.
- Film should be sealed in plastic bags* prior to cold storage. When taken out of cold storage, film should be allowed to reach room temperature before opening by letting it stand over 3 hours (for refrigerated film) or over 6 hours (for frozen film). Opening film while it is still cold may cause condensation to form on the film surface, causing color changes or the emulsion to become more susceptible to scratches.
- * Polyester, polystyrene, polyethylene, polypropylene etc.

9. Processing

Film development processes are standard throughout the world. Vista Films are "process-compatible" and are developed in the following process: AP 70/CN-16/C41

10. Processed Film Handling and Storage

Since the purpose of film is to provide a long-term record of memorable events, as much effort as possible has been made to use materials that exhibit the least amount of change over time, but the effects of light, heat, atmospheric oxygen, contaminant gases, humidity and mold cannot be completely avoided. It is possible, however, to minimize change in the photografic image or base material by maintaining appropriate storage conditions, such as those used by museums and art galleries. Temperature and humidity control is the most important key to minimizing the change that occurs in film. Films stored in the dark under the following conditions may be expected to show almost no change over time.

Storage Period with Almost No Change	Temperature	Relative Humidity
More than 20 years	Below 10°C	30% - 50%
10 – 20 years	Below 25°C	30% - 50%

 Color negative film should be inserted into sleeves for storage. Futhermore, it is recommended that film, as well as prints, be placed into non-airtight* containers made of paper, plastic**, or metal designed for the storage of photographs.

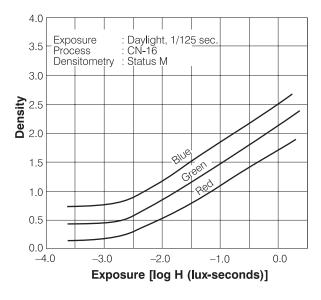
* To prevent film base (especially TAC base) decomposition, it ist essential that the container or case be allowed to air out during one dry day each year.

** Polyester, polystyrene, polyethylene, polypropylene ect.

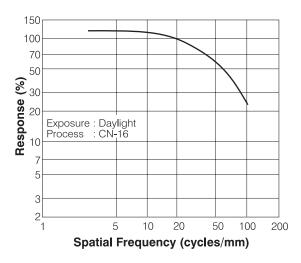
- (2) Processed film should be stored at a place as far away as possible from high temperatures, direct sunlight and other strong light and direct illumination. The following conditions are not desirable for the storage of film and should be avoided in the case of long-term storage:
 - Storage in a closet lying against a wall that ist exposed to cold, outside air (where condensation may form).
 - Storage in an attic or on top of a closet or cabinet near the ceiling (where high temperatures may form).



11. Charateristic Curves

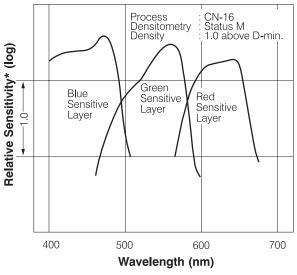


13. MTF Curve



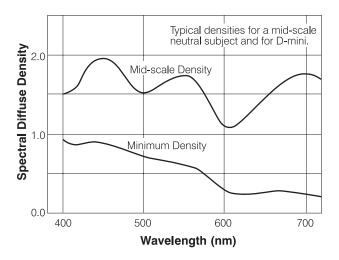
Notice: The data herein published were derived from materials taken from general production runs. However, changes in specifications may occur without prior notice.

12. Spectral Sensitivity Curves



* Sensitivity equals the reciprocal of the exposure (J/cm^2) required to produce a specified density.

14. Spectral Dye Density Curves



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