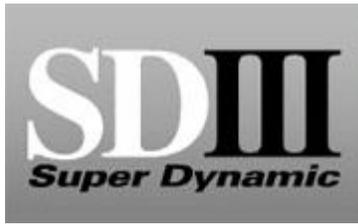
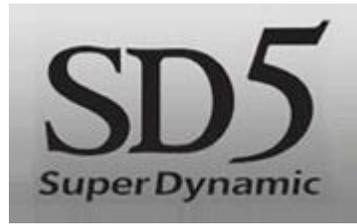


Why Panasonic



[Super Dynamic III](#)



[Super Dynamic 5](#)



[Mega Super Dynamic](#)



[i-PRO Smart HD](#)

[i](#)

[Surveillance > Why Panasonic > Super Dynamic III](#)

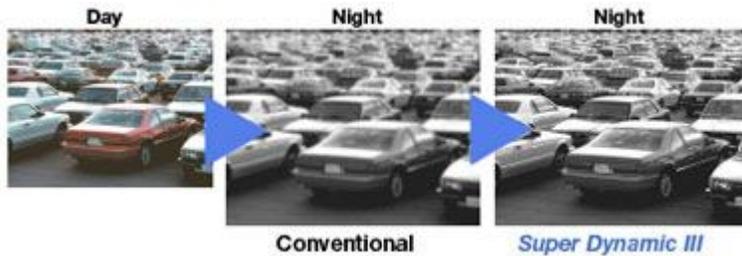


Panasonic's exclusive Super Dynamic III (SDIII) Technology enables surveillance cameras to think and act on their own. SDIII Cameras bring amazing reality to 24 hour surveillance, true picture for rock solid identification, superb image quality, and unprecedented image-processing performance.

PIXEL BASED 128X (NTSC) / 160X (PAL) DYNAMIC RANGE

Super Dynamic III uses Area Free (Pixel Based) Natural Contrast Image Correction to optimize contrast and faithfully reproduce objects in every area and position. Combining 1/8,000 sec. and 1/60 (NTSC) / 1/50 (PAL) sec. shutter speed signals gives this amazing system a 128x (NTSC) / 160x (PAL) Dynamic Range that makes it the perfect surveillance solution for ATMs, building entrances, and other locations where contrast changes depending on time, weather and season.

AUTO BACK FOCUS (ABF) (WV-CP484/WV-CW484 SERIES)



The ABF feature automatically adjusts the CCD

position when changing from color to B/W mode, optimizing the back focus required for clear, sharp images. In addition, the one-push Auto

Back Focus feature sharply reduces the time required to focus cameras during installation, allowing focus to be set using the optional system controller.



Conventional

Super Dynamic III

AUTO IMAGE STABILIZER

Cameras attached to poles may be affected by high winds. Cameras may also be affected by vibration from aircraft, trains or large trucks. Automatic image stabilization prevents blurring under these conditions.

SCENE CHANGE DETECTION

This feature detects interference and sends an alarm signal when the camera's operation has been hampered with, such as a manual change in the camera's angle, removal of the camera lens, defocus, blockage of the camera lens with cloth or paint.

AUTO TRACKING (WV-CW974/WV-CW964/WV-CS954, WV-NS202A, WV-NS954 AND WV-NW964 ONLY)



This feature automatically follows the largest

movement in the image, causing the camera to pan and tilt to keep the object in the center of the image. The WV-CW974 Series adds a new Template Matching algorithm that compares the recorded image with template color, shape and contrast settings. Use of templates to compare moving objects with other characteristics of the scene enables more accurate tracking. Plus, the operator can lock the camera onto a particular object by pressing a single button on the optional system controller.



SD5 achieves exceptional image quality by combining 128x wider dynamic range with greater low-light sensitivity (0.3 lux), more resolution (650 lines color), and the implementation of Adaptive Black Stretch (ABS) technology to compensate for dark areas. The cameras are available in vandal-resistant fixed dome or fixed box formats.

SEE MORE WITH SUPERIOR RESOLUTION



Exceptional resolution of 650 TV lines in color and 700

TV lines in B/W mode provides superb image clarity. Even the smallest details can be seen clearly.

INCREASE VISIBILITY WITH ADAPATIVE BLACK STRETCH



Adaptive Black Stretch technology increases the

visibility of subjects in dark areas of a video scene without degrading image quality in the brighter areas. This is accomplished by analyzing the illumination map/signal level distribution and adjusting gamma correction for each area separately. The results: clear, more visible images.

VIEW IMAGES IN LOW LIGHTING SITUATIONS



An impressive low minimum illumination of 0.3 lux

allows viewing of color images even when the lighting is dim. Further enhancement can be realized with the sens up feature (up to 32x).

ENSURE OPTIMAL FOCUS IN ALL SETTINGS



The Auto Back Focus (ABF) feature automatically

adjusts the cameras CCD position when changing from color to B/W mode to ensure optimal focus and sharp images. In addition, the one-push button featured on each camera drastically reduces the time required to focus the camera during installation.

CAPTURE VITAL SCENES WITH INTELLIGENT VIDEO MOTION DETECTION (I-VMD)

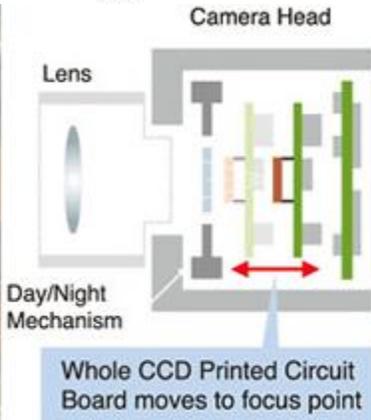
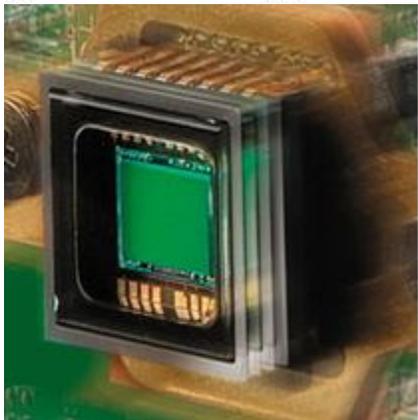
Ti-VMD: Panasonic's built-in video motion intelligence provides more efficient and reliable surveillance and prevents the loss of vital scenes. Intelligent Video Motion Detection use advanced motion analytics to accurately detect motion within a targeted area. Object detection: i-VMD also features object detection for items that are removed or left behind. The abandoned or removed object can be detected and indicated via a red frame to alert the user of a possible problem (see examples below).



Panasonic's exclusive Mega Super Dynamic imaging technology delivers performance that is unparalleled in the industry. The cameras 128x dynamic range make dark areas of a surveillance image more visible, regardless of highly contrasted lighting conditions within a scene. These megapixel cameras can transmit multiple video streams simultaneously – including H.264, MPEG-4 and JPEG – to enable both real-time monitoring and high-quality recording.

The cameras' advanced mega Super Dynamic image technology allows more sensitivity for lower light levels (1.0 lux color and 0.08 lux black-and-white at F1.4 in 1.3 megapixel mode) for clear images even when light is dim, which is ideal for 24-hour surveillance. The cameras also incorporate progressive scan megapixel CCDs that deliver clear images with less motion blur and no tearing even when subjects are moving. Other features include IPv4/v6 compatibility and Power over Ethernet (IEEE802.3af) to simplify installation.

AUTO BACK FOCUS (ABF) FOR MEGAPIXEL CAMERAS



The Auto Back Focus (ABF) feature automatically

adjusts the cameras CCD position when changing from color to B/W mode to ensure optimal focus and sharp images. In addition, the one-push button featured on each camera drastically reduces the time required to focus the camera during installation. With an optional controller, the focus feature can also be accessed from a control room or other location.

[Mega Super Dynamic technology virtual experience](#)

BUILT-IN INTELLIGENCE (FACE DETECTION & VMD)



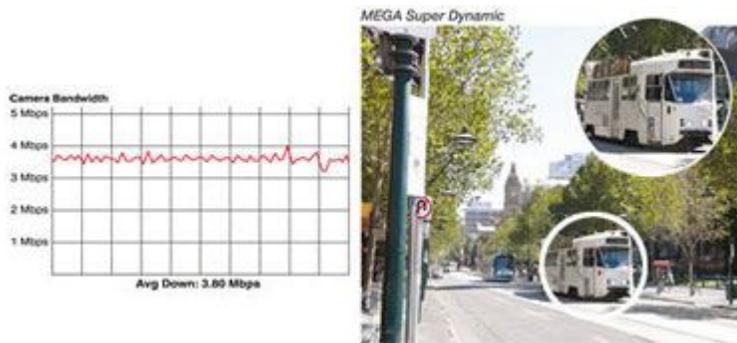
With Panasonic's unique face detection technology,



images of up to 8 human faces can be detected for better identification. The position of the faces can be sent by XML data to an external system for specific applications.

Video Motion Detection (VMD) can detect motion in a specified area and trigger alarms. i-Pro cameras can send motion meta data when used with Panasonic's WJ-ND400 NVR series so that motion in the specified area can be searched quickly.

REAL-TIME VIDEO USING H.264 COMPRESSION



Panasonic's proprietary UniPhier® system platform

delivers full-frame rate video by utilizing H.264 compression technology. The UniPhier® platform saves bandwidth even at 30 fps (at 1.3 megapixel mode and under normal network conditions).

PIXEL-BASED DYNAMIC RANGE



Area free (pixel-based) natural contrast image

correction optimizes contrast and faithfully reproduces objects in every area and position. Combining 1/8,000 sec. and 1/60 sec. shutter speed signals provide a 128x dynamic range that makes these cameras the perfect surveillance solution where contrast changes depending on time, weather and season.

EXCEPTIONAL RESOLUTION AND SENSITIVITY



Panasonic's Mega Super Dynamic cameras combine



high sensitivity design and electronic sensitivity enhancements to capture color images even when the viewing area is dimly lit. If the scene is too dark, the day/night switching function will automatically switch from color to B/W for optimal viewing. In addition, these megapixel cameras offer exceptional resolution to see the smallest details.

ADAPTIVE DIGITAL NOISE REDUCTION



By combining 2D digital noise reduction (DNR)

processing for moving objects and 3D DNR for the background, movement-generated streaking typically seen with images are corrected. From the example, we can see that even the headlights of moving cars can be seen clearly, unmarred by the streaks of light produced by previous DNR processing.

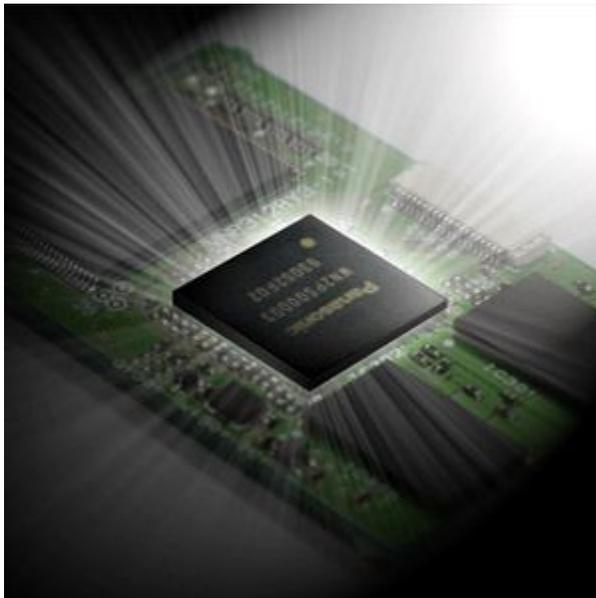


Panasonic's pursuit for cutting edge technology continues with i-PRO SmartHD. The third generation i-PRO technology boasts Full HD image viewing quality, H.264 (High Profile) Compression and Face Detection and Face Matching capabilities. i-PRO regular features such as Adaptive Black Stretch (ABS), High Sensitivity and Auto Back Focus (ABF) are all present, taking the i-PRO portfolio to a whole new level. The cameras are available in fixed dome, fixed box or PTZ format.



1.3 MOS SENSOR

The unique technology of 3rd generation i-PRO is the MOS sensor that realizes High Definition (HD) images with exquisite color reproduction. Additionally, i-PRO SmartHD cameras have dramatically improved low light capability so you can clearly view images in virtually any lighting condition.



UNIPHIER® LSI

Panasonic has united all of its video technology with the UniPhier® LSI Computer Chip. Compliant with the H.264 High Profile Format, UniPhier® technology has made it possible to stream High Definition images using as little as half as much data. The proprietary LSI also enables intelligent features such as face detection and face matching.



FACE DETECTION

i-PRO SmartHD cameras combine Face Wide Dynamic Range and 3rd generation i-PRO SmartHD technology to detect and recognize faces in automatic real time- even with multiple individuals in a frame.



FACE MATCHING

The Real Time Face Matching function in the WJ-NV200 matches registers face images with a face displayed on a live camera feed. Once the face is detected and matched, an alarm notification can be sent by e-mail, Panasonic system alarm, terminal output, buzzer or indicator.