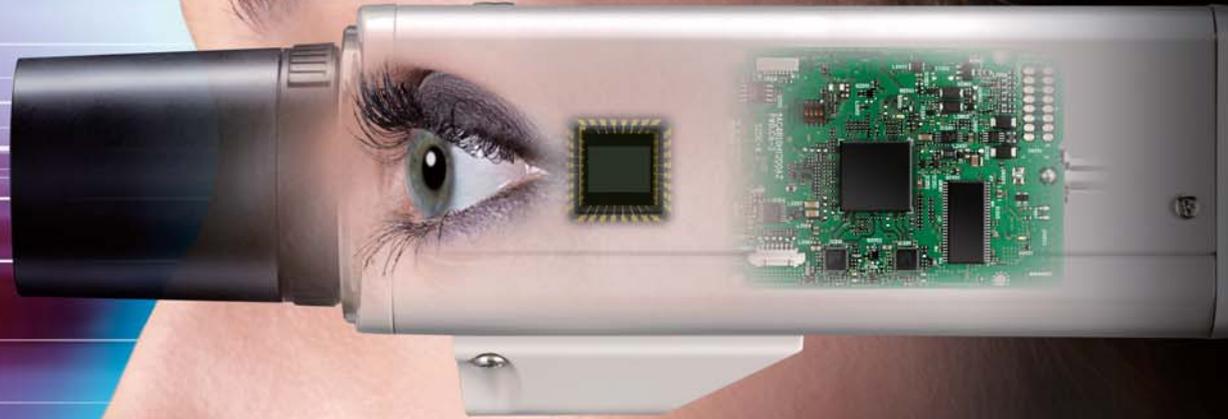


Think GAIA  
For Life and the Earth

**SANYO**

VCC-W8775P (Color)  
VCC-WD8875P (Day & Night)



Advanced Wide Dynamic Range Camera

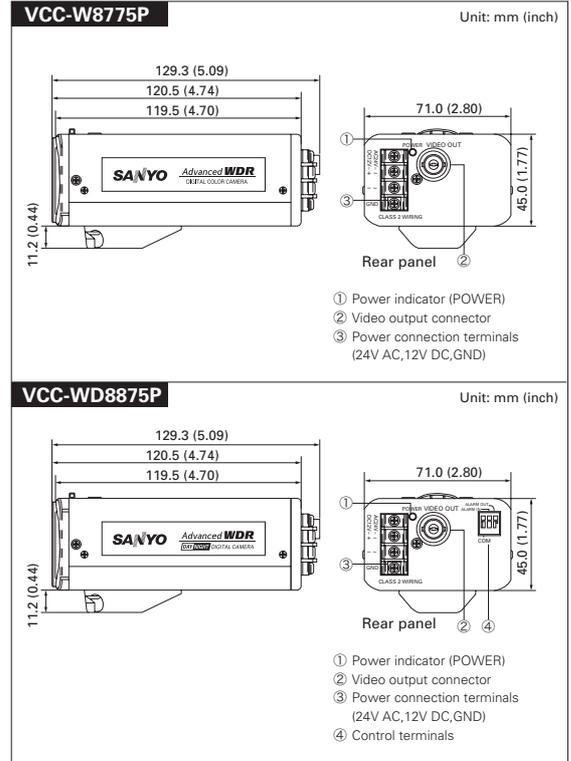
## Specifications (PAL)

Model.No		VCC-W8775P	VCC-WD8875P
Scanning system		PAL standard 625 lines	
Image sensor		Progressive scan 1/3" CMOS 800(H) x 600(V) effective picture elements	
Image size		1/3" (4.5mm x 3.38mm)	
Synchronizing system		Internal / Line lock synchronization	
Day and Night		— / True D/N	
Resolution		Horizontal: 550 TV lines (typical)	
Video output level		1.0Vp-p (75 ohms, composite)	
Video S/N ratio		More than 50dB (AGC off)	
Minimum illumination	Color	0.8 lx (at F1.2)	
	20 IRE	0.32 lx (at F1.2)	
	B/W	—	0.08 lx (at F1.2)
	20 IRE	—	0.032 lx (at F1.2)
Wide Dynamic		ON/OFF, adjusting level etc. 65dB*(typical)	
Backlight compensation		ON / OFF	
White balance		ATW / MANUAL	
Light control		Optical auto iris lens / Electronic iris	
Electronic iris		ON / OFF	
Electronic shutter		1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000	
Lens iris level		Level: L to H	
Auto iris output		DC type	
Aperture correction		High / Normal / Low / Off	
AGC gain		High / Normal / Off	
Digital noise reduction		ON / OFF	
Menu		OSD, title setting: 16 characters	
Lens mount		CS mount	
Camera mount		1/4"-20 UNC (top or bottom selectable)	
Environmental conditions		Operating — Temperature: -10°C to +50°C Humidity: within 90% RH Storage — Temperature: -20°C to +70°C Humidity: within 70% RH	
Power requirement		24V AC, 50Hz / 12 to 15V DC	
Power consumption		6.9w	T.B.D.
Dimensions		71.0 (H) x 45.0 (D) mm 2.80 (W) x 1.77 (H) x 4.70 (D) inch	
Weight		320g (11.29oz)	330g (11.64oz)

\*JETA Measurement Method  
NOTE: Specifications subject to change without notice.



## Dimensions



\*iridx technology is provided by Apical Limited, UK.

**Caution:** Please consult the instruction manual to ensure safe and proper operation of the product.



Digital System Company of SANYO Electric Co., Ltd. obtained Quality Management System ISO9001 and Environmental Management System ISO14001 certifications .

Distributed by:

# SANYO

**SANYO Electric Co., Ltd.**  
Digital System Company  
<http://www.sanyosecurity.com>

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SFA192F



**SANYO** *Advanced WDR*  
DIGITAL COLOR CAMERA

**SANYO** *Advanced WDR*  
DIGITAL COLOR CAMERA

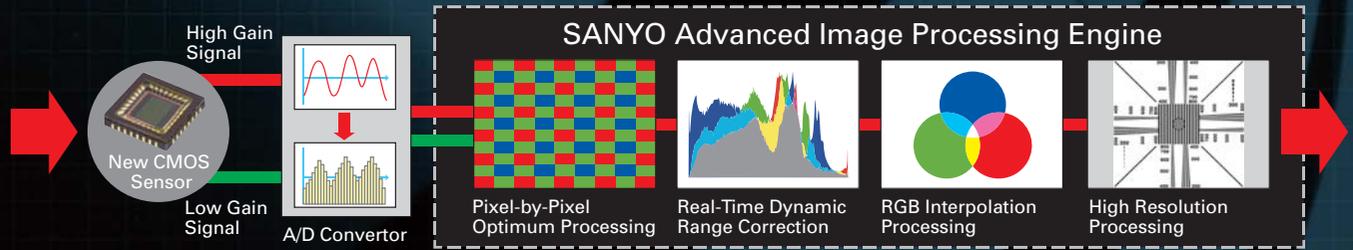


## Enhanced surveillance that compares favorably to the human eye.

Reproducing images more naturally and with greater clarity, the SANYO “Advanced WDR” Surveillance Camera achieves significantly greater dynamic range utilizing SANYO’s own innovative technologies. By adopting a radically new linear output method, SANYO has created a security-optimized camera delivering superb performance under varying light conditions and one which utilizes a new “retina-morphic processing algorithm” for capabilities approaching the human retina. Surveillance now reaches a higher level of performance than thought possible.

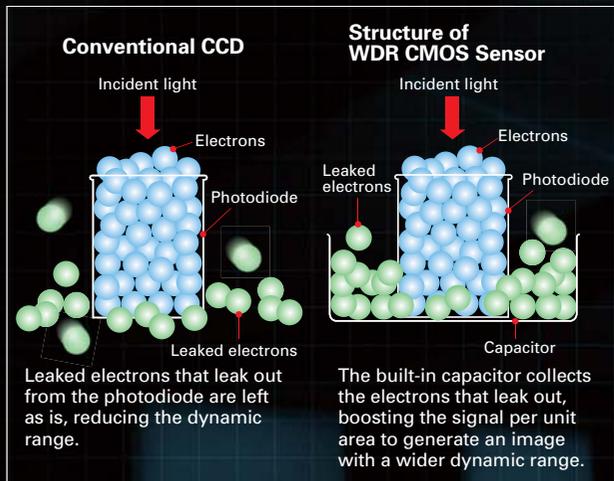
# Advanced WDR

# Advanced WDR Image Processing System



## New CMOS Sensor Delivers the Widest Dynamic Range Yet

### New Structure of CMOS Sensor



### CMOS Sensor of Super Dynamic Range

Conventional CCD drawbacks included electrons that overloaded when receiving too many electrons and allowed signals to leak. This in turn reduced the device's dynamic range. The newly developed CMOS sensor is engineered to handle leaked electrons and can transmit virtually complete receiving image information to image signals, effectively reproducing images having a wider dynamic range for clearer images that reveal more. The new CMOS sensor features an extremely wide dynamic range that far surpasses conventional cameras.

### Progressive Scan System

In a conventional CCD, an image is produced by using high-intensity and low-intensity signals to obtain dynamic range, and this generates time lag. A progressive scan system eliminates image composition processing, preventing time lag from being generated and delivering a high-quality clear image without misaligned contours from the composition process even if capturing a quick-moving subject.



Conventional Camera



SANYO Advanced WDR Camera

## SANYO Advanced Image Processing Engine

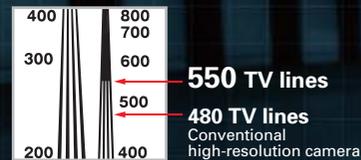
The newly-developed "SANYO Advanced Image Processing Engine" uses a unique algorithm to individually process each pixel so that the image data possesses the widest possible dynamic range to approximate the human retina as much as possible. The end result produces images with rich and smooth gradations that were not possible previously.

### Super Dynamic Range of 65dB

SANYO's Advanced WDR camera has achieved super dynamic range of 65dB in the industry top class by combining with the new WDR CMOS sensor and SANYO's Advanced Image Processing Engine. (Advanced WDR Image Processing System)

### 550 TV Lines of Horizontal Resolution Ensure High-Definition Images

The camera is equipped with a new 1/3-inch CMOS sensor and newly developed SANYO Advanced Image Processing Engine to provide maximum information density. The result is a 480,000 pixels resolution with images having the industry's top-ranking level 550 TV lines of horizontal resolution.



### "Retina-Morphic Processing Algorithm"

The newly developed "SANYO Advanced Image Processing Engine" utilizes a "retina-morphic processing algorithm" for effective real-time dynamic range correction. Processing is with an algorithm developed after extensive research into the human optic system including eyes, the optic nerve and brain. Utilizing a model of the human retina's dynamic range adjustment ability, this algorithm provides revolutionary corrective effects that set a new reference standard. Every pixel has its luminance dynamically changed in reference to areas inside the frame. Images can therefore be realistically reproduced even when luminance varies dramatically. Color reproduction under backlit conditions is optimized.



Conventional Camera



SANYO Advanced WDR Camera

## New and Advanced Linear Output Method

SANYO devised a new exposure method for increasing visibility under varying conditions of light, weather and time. The progressive exposure technology simultaneously outputs image signals in low illumination areas and image signals in high illuminance areas with no lag. Subjects are accurately reproduced with natural gradation including subjects as well as images with an incorrect white balance background that previously could not be conventionally reproduced. This new technology captures quick motions with great stability and reproduces contours clearer and richer than before—an advantage that conventional time lag exposure composition methods could not expect.



Conventional Camera



SANYO Advanced WDR Camera

## Incorporates Premium Bayer Mosaic RGB Filter

The "Advanced WDR" camera also makes use of the acclaimed Bayer Mosaic RGB filter which extracts light's three primary colors (red, green and blue) from the CMOS sensor to deliver highly realistic and vivid colors that allow extremely accurate color reproduction.

## Sophisticated Auto White Balancing System

A new fully automatic tracing white balancing system makes it possible to consistently achieve natural, lifelike colors that reproduce subjects better.



Conventional Camera



SANYO Advanced WDR Camera

## Surveillance Images with Minimal Noise and Outstanding Excellent Color even for Dark Areas

### High Sensitivity, Minimum Illumination of just 0.8 lux

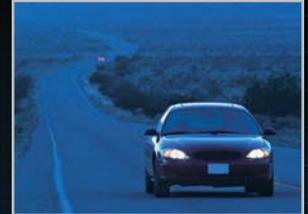
With a sensor that measures just 1/3 of an inch, an immense amount of light per unit area can be achieved while dark areas are more effectively handled. A minimum illumination of 0.8 lux (at F1.2) is all that is required for this sensor to allow dimly lit subjects to be reproduced satisfactorily in good color.

## Digital Noise Reduction

A new digital noise reduction function minimizes S/N ratio penalties conventionally incurred when processing dark areas, improves the S/N ratio in low illumination conditions and achieves images virtually free of noise.



Digital Noise Reduction Off



Digital Noise Reduction On

## Smearless

Conventional CCD cameras can often generate vertical noise (smears) associated with bright spots. The new CMOS sensor eliminates smeared images.



Conventional Camera



SANYO Advanced WDR Camera

## Day & Night Function (VCC-WD8874)

The camera is able to evaluate scene brightness, turning the infrared cut filter ON or OFF automatically when needed. A single camera is adequate for 24/7 monitoring. The camera takes color images which are easy to monitor during daylight hours and switches to sharp black-and-white images of high sensitivity at night or during periods of low illumination.



Day (color image)



Night (black & white image)

## High-Level, High-Performance Basic Functions

Dual Power Source: 24V AC and 12-15V DC

Stylish new design

AGC function

Electronic shutter function

Electronic iris function

S/N ratio over 50dB

CS mount lenses