

SANYO

1/4" Color CCD DSP High-resolution Weatherproof Day/Night Zoom Camera

VCC-XZ200 Color
NTSC

PAN-FOCUS
Technology in Perspective

DAY NIGHT



All-In-One design with Lens, Housing and Metal fittings Included IP66 Rated Enclosure

Built-in x2.6 Motorized Zoom
Pan-Focus Lens (f = 2.8 to 7.3 mm) No focus adjustments



Pan-focus lens image



Vari-focal lens image

Comparative images are representations only.

520TVL Resolution
Network/UTP video
Transmission connectivity
(with board option)

Remote Camera Setting
by VAC-70

Made in Japan

The product introduced here is manufactured in Japan utilizing advanced technologies and quality control.

ALL-in-one design weatherproof camera



1/4" Color CCD DSP High-resolution Weatherproof Day/Night Zoom Camera

VCC-XZ200

VCC-XZ200 features horizontal resolution of more than 520 TV lines, a pan-focus lens that brings the entire screen into focus, and a body that integrates a weatherproof housing (IP66 class) and wall-mount fittings for easy installation, and reduced maintenance. The combination of an IP66 housing and a day/night camera makes it possible to install the camera anywhere for 24 hour monitoring. The built-in motion detection function catches any change or movement within the surveillance area. Options for VCC-XZ200 include network support, enabling the construction for a more integrated surveillance system.

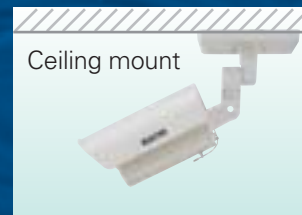
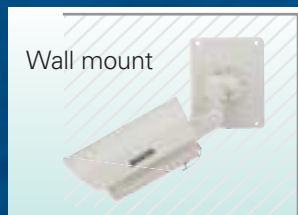
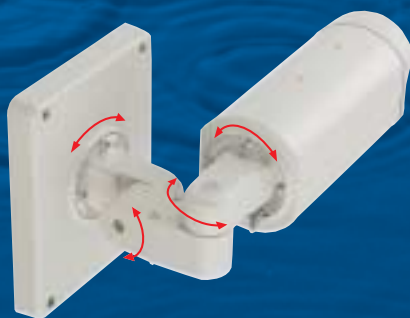
Integrated unit for easy installation

An all-in-one package with pan-focus camera, lens, weatherproof housing, wall-mount fittings and even a shade. The use of the shade is discretionary, but it is useful under certain circumstances. Without the shade, the camera is very compact and ready for set-up.

No additional accessories are needed.

Adjustable Arm

The angle of the arm is adjustable in all directions. Since the flexible joint is secured by screws, the arm maintains its position without sagging over time. In addition, a safety wire is included to prevent accidents. Installation on a ceiling or wall is easy without any additional parts. The arm also encloses the wiring to prevent tampering.



PAN-FOCUS

Technology in Perspective

SANYO proposes the x2.6 pan-focus lens to

offer a focused view of a broader area

With a vari-focal lens, objects that are in front of or behind the focus point are blurred. To eliminate this problem, a new technology was developed, and continues to be refined, to increase the depth of field so that everything in the field of view is in focus at the same time. SANYO has been one of the leaders in the development of this technology and has successfully commercialized the x2.6 pan-focus lens that offers an image with greater depth of field. The new lens makes it possible to capture a clear image of objects in the background.



Image with a pan-focus lens

- Clear focusing on all shooting area with great depth of field (D.O.F.)
- No focus adjustments
- Remote zoom adjustment by camera unit, VAC-70 and VA-20ST/VA-20LAN board option



Image with a vari-focal lens

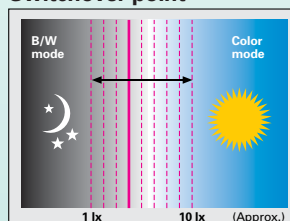
- Clear focusing to a specific area
- Manual focus adjustments
- Manual view angle adjustments

DAY NIGHT

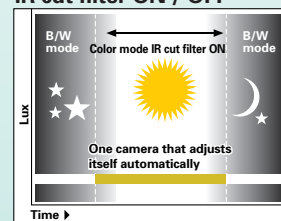
Intelligent switching from color to B/W

Selecting color or B/W mode can be done automatically by the camera, or else manually. In addition, the user is allowed to change the switchover point from 1 to 10 lx (nominal) using the on-screen menu. The integration of color and high sensitivity B/W modes in one camera makes it a versatile tool for any surveillance need. VCC-XZ200 is truly an all-in-one camera.

Switchover point



IR cut filter ON / OFF

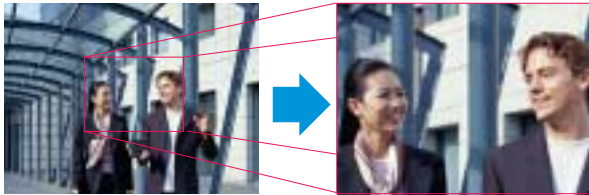




Flexible Motion Detection Function

A built-in motion detection function enables reliable and accurate motion detection by analyzing the "magnitude of movement" and the "size of object" from changes in picture brightness. When a moving object is detected, VCC-XZ200 can send an alarm signal* to external units and/or switch to the optical zoom mode that can be preset either to x1.0, x1.4, x2.0, or x2.6 zoom.

*Only when using VA-20LAN or VA-20ST board option.



Multi-spot photometry system (64-section)

The screen is divided into 64 sections on which luminous intensity is measured separately to determine the lighting/backlight conditions of all objects. This makes it possible to apply optimum backlight compensation even for peripheral objects and moving objects.



Privacy Masking

When there is a house or even an object as small as a window within the camera frame, it is possible to mask the area so that it will not appear on the monitor screen to protect other people's privacy. Up to 4 rectangular masks of arbitrary size can be set per screen. These masking areas may be protected with a 4-digit (max.) password.

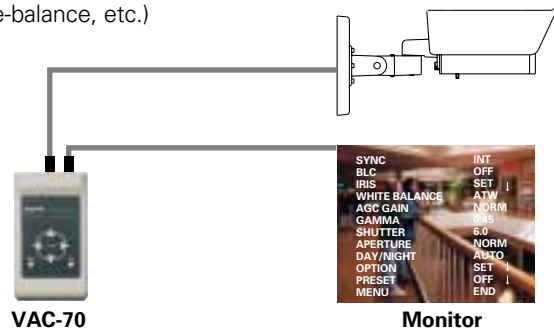


AC / DC Power Source Compatibility

VCC-XZ200 comes with power supply terminals of 24 V AC (60 Hz, ±10%) and 12 to 15 V DC. The unit automatically recognizes and switches to the correct mode when power is supplied.

Camera Control Unit VAC-70 (sold separately)

The remote setup capability of the unit gives a feeling that the user has the camera right beside the monitor, providing an on-screen menu for everything needed to set up VCC-XZ200. (Intelligent digital motion detector, backlight compensation, white-balance, etc.)



Expandability

Add a network board, an SSP communication board, or a heater board for the prevention of dew condensation, and expand the system capability.

Network board VA-20LAN (sold separately)

This expansion board for network enables VCC-XZ200 to connect to a network. The user can operate a network connected camera using a web browser (Internet Explorer). It comes with the VA-SW3050LITE viewer software.

SSP+Twisted pair board VA-20ST (sold separately)

Coaxial control : SSP / H-SSP / PELCO-C
RS-485: SSP / PELCO-D
Twisted pair terminal (CAT5) for video signal:
NVT built-in UTP video

NOTE: The VA-20LAN and the VA-20ST cannot be used concurrently.

Heater board VA-50H (sold separately)

The heater board protects the camera from cold weather. It allows the camera to operate at temperatures as low as -30°C (-22°F). (24 V AC only)

Network Recorder VA-SW3050 (sold separately)


The network recorder VA-SW3050 is an application program that extends the network operation of the camera. By installing this software and the VA-20LAN board in VCC-XZ200, it is possible to monitor images from multiple cameras in a split screen and access and operate up to 128 cameras over a network. This is in addition to standard features such as monitoring and recording live images, playing back recorded video, etc. It is an exclusive software package for VDC-DP7584+VA-50LAN, VCC-P7574+VA-50LAN and VCC-XZ200+VA-20LAN that even enables alarm and timer recordings.



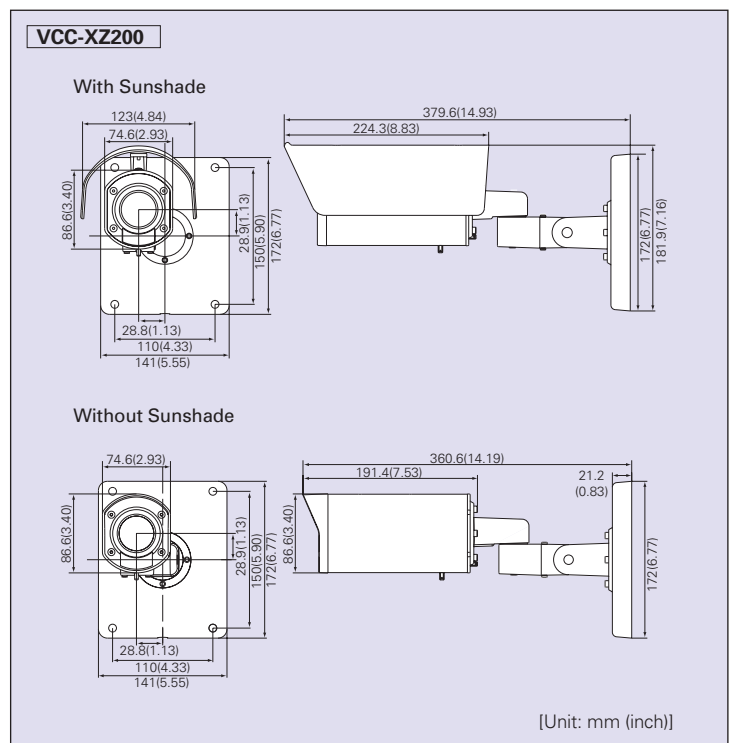
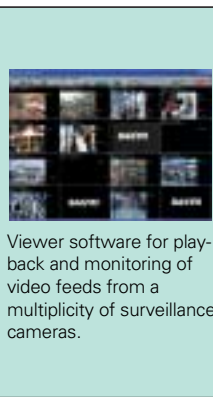
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|--|--|-----------------|-----------------------------------|-----------|---|-------------------|--|------------------|------------|---------------------|---|
| Compression | JPEG | | | | | | | | | | |
| Picture resolution | 720 x 240 / 640 x 480 / 360 x 240 / 180 x 120 pixels | | | | | | | | | | |
| Picture quality | 5 levels (Basic, Normal, Enhanced, Fine, Super Fine) | | | | | | | | | | |
| Frame rate | Max. 30 IPS (720 x 240) | | | | | | | | | | |
| Network protocols | TCP, UDP, HTTP, HTTPS, SMTP, NTP, DHCP, FTP, UPnP | | | | | | | | | | |
| Number of simultaneous log-in users | Up to 16 users (admin: only by one person) | | | | | | | | | | |
| System requirements | <table border="1"> <tbody> <tr> <td>Computer</td> <td>IBM PC/AT and compatible machines</td> </tr> <tr> <td>OS</td> <td>Windows® 2000 Professional SP4 / Windows® Home SP2 / Windows® XP Professional SP2</td> </tr> <tr> <td>CPU/Memory</td> <td>4 cameras connected CPU: Pentium®4 2.0GHz or higher Memory: 512MB or more 5 to 16 cameras connected CPU: Pentium®4 3.0GHz or higher Memory: 1GB or more</td> </tr> <tr> <td>Interface</td> <td>100BASE-TX</td> </tr> <tr> <td>Display card</td> <td>1,024 x 768 pixels, more than 16,000,000 colors or 24-bit color, PCI Express graphics card or AGP graphics card with support for hardware overlay (Latest version of DirectX® driver, DirectX9.0c, required)</td> </tr> </tbody> </table> | Computer | IBM PC/AT and compatible machines | OS | Windows® 2000 Professional SP4 / Windows® Home SP2 / Windows® XP Professional SP2 | CPU/Memory | 4 cameras connected CPU: Pentium®4 2.0GHz or higher Memory: 512MB or more 5 to 16 cameras connected CPU: Pentium®4 3.0GHz or higher Memory: 1GB or more | Interface | 100BASE-TX | Display card | 1,024 x 768 pixels, more than 16,000,000 colors or 24-bit color, PCI Express graphics card or AGP graphics card with support for hardware overlay (Latest version of DirectX® driver, DirectX9.0c, required) |
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| MODEL | VCC-XZ200 |
|--------------------------------|---|
| Scanning system | NTSC standard 525 lines, 60 fields/sec. |
| Image sensor | 1/4" Interline transfer method CCD (3.6 x 2.7 mm) |
| Number of pixels | Total: 811 (H) x 508 (V), Effective: 768 (H) x 494 (V) |
| Horizontal resolution | More than 520 TV lines |
| Minimum illumination (approx.) | 50IRE 1.2 lx (F1.9, Gain High, color mode) / 0.06 lx (F1.9, Gain High, B/W mode) |
| | 20IRE 0.48 lx (F1.9, Gain High, color mode) / 0.024 lx (F1.9, Gain High, B/W mode) |
| Video output | 1.0 V (p-p) (75 Ω, composite) |
| Video S/N ratio | More than 50 dB (AGC OFF) |
| Backlight compensation | ON (multi-spot photometry (High/Normal), Center-zone photometry) / OFF |
| White balance | ATW / AWC / Manual (MWB) / Outdoor (3200) / Indoor (5600) / Fluorescent (FLUO) |
| Gain control | High / Normal / Off |
| Gamma | 0.45 / 1 |
| Lens | Built-in motorized zoom pan-focus auto iris lens, f=2.8 to 7.3 mm (x2.6), F1.9 to 3.0 |
| Electronic shutter | 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec. |
| Motion detector | On / Off: Motion zoom function |
| Privacy masking | On / Off: Max. 4 masked locations |
| Alarm input | 1 (NO / NC), with alarm zoom function |
| Character display | On / Off, Camera ID max. 16 characters, adjusting position |
| Synchronizing system | Internal synchronization / Line lock |
| Day/Night mode | Auto (High/Low) / Color / B/W: External control |
| Aperture compensation | High plus / High / Normal / Off |
| Environmental conditions | Operating Temperature: -10°C to +50°C (+14°F to +122°F), Humidity: within 90% RH Storage Temperature: -20°C to +70°C (-4°F to +158°F), Humidity: within 70% RH |
| Power supply | 24 V AC ±10%, 60 Hz or 12 V to 15 V DC |
| Power consumption (approx.) | 3.5 W (without options), 6.0 W (with options), 13.0 W (with heater) |
| Dimensions (approx.) | 141(W) x 181.9(H) x 379.6(D) mm [5.55(W) x 71.61(H) x 149.45(D) in.] |
| Weight (approx.) | 1.76 kg [62.1 oz.] (with sunshade) 1.56 kg [55.0 oz.] (without sunshade) |
| Waterproof standard | IP66 |
| Regulatory | UL, FCC Class B |

NOTE: Specifications subject to change without notice

| Optional boards | |
|-----------------------------------|--|
| Network board VA-20LAN | Bandwidth limit: No limit / 128 Kbps to 4 Mbps; Alarm buffer: 8 MB max., adjustable; Interface: 10BASE-T / 100BASE-TX RJ45 terminals, links shown by OSD |
| SSP+Twisted pair board VA-20ST | Communication protocol Coaxial control: SSP/H-SSP/PELCO-C RS-485: SSP/PELCO-D Video out: Coaxial cable / Category 5 LAN cable  (NVT built-in UTP video) |
| Heater board VA-50H | Operating environment (with power source connected) Temperature: -30°C to +50°C [-22°F to 122°F] (24 V AC only) Humidity: less than 90% RH (no condensation) |

| VA-SW3050LITE Viewer Software (Bundled with VA-20LAN) | |
|---|---|
| Compression | JPEG |
| Picture resolution | 720 x 240 / 640 x 480 / 360 x 240 / 180 x 120 pixels |
| Picture quality | 5 levels (Basic, Normal, Enhanced, Fine, Super Fine) |
| Frame rate | Max. 30 IPS (720 x 240) |
| Network protocols | TCP, UDP, HTTP, HTTPS, SMTP, NTP, DHCP, FTP, UPnP |
| System requirements | Computer OS IBM PC/AT and compatible machines Windows® 2000 Professional SP4 / Windows® Home SP2 / Windows® XP Professional SP2 |
| | CPU/Memory 4 cameras connected CPU: Pentium®4 2.0GHz or higher Memory: 512MB or more 5 to 16 cameras connected CPU: Pentium®4 3.0GHz or higher Memory: 1GB or more |
| | Interface 100BASE-TX |
| | Display card 1,024 x 768 pixels, more than 16,000,000 colors or 24-bit color, PCI Express graphics card or AGP graphics card with support for hardware overlay (Latest version of DirectX® driver, DirectX9.0c, required) |



PAN-FOCUS with horizontal resolution of 520 TVL
Technology in Perspective

1/4" Color CCD DSP High-resolution Indoor Mini Dome Camera
VCC-P7574

1/4" Color CCD DSP High-resolution Day/Night Vandal Proof Dome Camera
VDC-DP7584 DAY NIGHT

1/4" Color CCD DSP High-resolution Weatherproof Day/Night Zoom Camera
VCC-XZ200 DAY NIGHT



Camera Set-up Unit VAC-70 (sold separately)

| MODEL | VAC-70 |
|--------------------------|---|
| Video output terminal | BNC x 1 |
| Camera input terminal | BNC x 1 |
| Environmental conditions | Temperature: -10°C to 50°C [14°F to 122°F], Humidity: 10 to 80% |
| Power requirement | 3V DC, 2 AA / LR6 / 1.5 V batteries |
| Dimensions | 80(W) x 40(H) x 140(D) mm [3.2(W) x 1.6(H) x 5.5(D) in.] |
| Weight (approx.) | 230 g [8.1 oz.] (without batteries) |

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



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