ABOUT US

A market leader in the school bus industry, Silent Witness has installed over 100,000 school bus systems throughout North America. In the security industry, Silent Witness has established a reputation for itself as a technology leader with a focus on quality, durability, design and innovation.

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Specifications subject to change without notice.
The Silent Witness catalog is published twice a year.
For the most recent specifications on all our products, please visit our website www.silentwitness.com
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Silent Witness Enterprises Ltd
6554 176th Street  Surrey, BC  V3S 4G5  Canada
For the most recent specifications on all our products please visit our website:
www.silentwitness.com
MAGNAVIEW™ SERIES

MAGNAVIEW is Silent Witness’ premium camera line of vandal-resistant surveillance solutions. These weather resistant cameras can withstand a blow from a 10 pound sledgehammer. They offer aesthetic appeal without compromising function and are warrantable state-of-the-art surveillance solutions.

MODULAR:
- Choose popular transmission media to be integrated inside the camera — coax (UTP or Fiber®)
- Choose from a wide range of cameras including True Daylight, Driveway Haze™ and Wide Dynamic
- Six rugged high impact & vandal resistant housing to choose from
- Interchangeable camera gimbal

WATER, CLIMATE READY:
- "360°" gimbal allows for maximum lens rotation and placement
- Compatible with Silent Witness’ Quick Change Fixed (2.9 mm to 3.6 mm), Rapid Focus Auto-iris (2.8 mm to 6.0 mm) or Vari-focal Auto-iris (4.0 mm to 9.0 mm)

ADAPTABLE:
- Choice of power connection self-configures to either 12VDC or 24VAC. AC line lock standard with all cameras in 24VAC operation
- Camera assembly is easily installed and removed

MAGNAVIEW V28C (cornermount)
The MagnaView V28C increases application options — ideal for mounting in tight corners and elevators, it provides a wider field of view and increased aesthetics. SilentWitness offers an optional housing cap for mid-wall installations and is available in a standard white or a polished stainless steel finish.

MAGNAVIEW V28F (flush)
This rugged and robust housing design has NO ligature points making hanging or holding onto the camera impossible. The tough and robust camera comes with a machined aluminum cover making it your camera of choice in applications where visual appeal is of prime consideration. It flush mounts to a wall or ceiling with or without a 48” deep electrical box. It is also ideal for use in prisons, hotels, schools and commercial and public buildings.

MAGNAVIEW V28G (GripLess™)
The V28G’s unique conical, surface mount design has NO ligature points, making it impossible for an individual to grip or hang from the camera. Its machined aluminum cover can withstand a blow from a 10 pound sledgehammer and is ideal for prisons, hospitals, hotels, schools, and commercial and public buildings.

MAGNAVIEW V28P (plus)
This feature-rich camera comes in a die cast aluminum alloy housing that converts between a flush or surface mount enclosure instantly, and installs with or without a 4S deep electrical box.

MAGNAVIEW V28R (round)
The housing material consists of die cast aluminum alloy, with wall and pendant mounting accessories available case-taking.

MAGNAVIEW V28S (square)
With its innovative style and structure, the V28S housing material is made of sand cast aluminum alloy, making it the strongest camera in the product line today.

METAL HOUSINGS

www.silentwitness.com
PRIMAVIEW ™ SERIES

Primaview is Silent Witness’ camera line that offers strong, lightweight surveillance solutions. The C12, C14 and V29A are cost-effective, high quality polycarbonate cameras that provide superior picture quality and outperform many other conventional CCD cameras. Its polycarbonate enclosure can withstand a blow from an 8 pound sledgehammer.

MODULAR:
- Choose popular transmission media to be integrated inside the camera — cooled or UTP
- Choose from a wide range of cameras including True Day/Night, 360° View HD™ and Wide Dynamic (Available Fall/03)
- Choose from three high impact, vandal resistant housing to choose from
- Interchangeable camera-global

WIDER, CLEARER VIEW:
- "3D" gimbal allows for maximum lens rotation and placement
- Compatible with Silent Witness’ Quick Change Fixed (2.9 mm to 16.0 mm) and Vari-Focal Auto-Iris Lenses (4.0 mm to 9.0 mm, 2.8 mm to 6.0 mm or 9.0 to 22.0 mm)*

ADAPTABLE:
- One power connection self-configures to either 12 VDC or 24 VAC. AC line lock standard with all cameras in 24 VAC operation
- Camera assembly is easily removed and reinstalled
- Switch between surface or flush mount (C12 & C14 only)

ROBUST AND DISCREET:
- Impact resistant, clear polycarbonate dome has an adjustable dome insert to conceal camera components
- Weather sealed for indoor and outdoor applications
- Interchangeable — this camera will not compromise architectural specifications
- Ideal applications include retail, banking, commercial buildings, hotels and conference centers

1-2-3 INSTALLATION:
- Captive screws — no misplaced hardware
- Mounting template takes the guesswork out of installation
- Patent pending hinge — no scratched domes

1. Install and wire the housing
2. Snap in the camera assembly
3. Camera is ready to go to work for you

3 Year Warranty

* C12 compatible with Quick Change Fixed Lenses only

PRIMAVIEW C14

The C14 mounts to a wall or ceiling with or without a 4S deep electrical box, converting to flush or surface mount instantly. With its large, impact resistant polycarbonate dome, the C14 is compatible with both the Quick Change Fixed and Vari-Focal Auto-Iris Lenses.

PRIMAVIEW C12

Switch between a flush or surface mount enclosure instantly — install ready with a 4S deep electrical box. Compatible with the Quick Change Fixed Lens; the C12 allows for excellent field of view.

PRIMAVIEW V29A (angledome)

The V29A is an original Silent Witness camera in sleek wedge-style design. Use the V29A with a narrow view lens (12.0 mm, 16.0 mm) to see horizontal along ceilings and walls. Field of view is superior to flat view surveillance cameras.

POLYCARBONATE HOUSINGS

Advanced surveillance
### MODULAR SYSTEM CHART (PrimaView™)

#### Choose your:

<table>
<thead>
<tr>
<th>housing</th>
<th>camera</th>
<th>lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>V28R</td>
<td>NTSC</td>
<td>Fixed Lens</td>
</tr>
<tr>
<td>V28B</td>
<td>PAL</td>
<td>QL029 (2.9 mm)</td>
</tr>
<tr>
<td>V28C</td>
<td>NTSC</td>
<td>QL036 (3.6 mm)</td>
</tr>
<tr>
<td>V28T</td>
<td>PAL</td>
<td>QL060 (6.0 mm)</td>
</tr>
<tr>
<td>V28G</td>
<td>NTSC</td>
<td>QL080 (8.0 mm)</td>
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<tr>
<td>V28E</td>
<td>PAL</td>
<td>QL120 (12 mm)</td>
</tr>
<tr>
<td>V28F</td>
<td>NTSC</td>
<td>QL160 (16 mm)</td>
</tr>
<tr>
<td>V28P</td>
<td>PAL</td>
<td>Variety Pack</td>
</tr>
<tr>
<td>V28Y</td>
<td>NTSC</td>
<td>QLVP4 (2.9, 3.6, 6.0, 8.0 mm)</td>
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<tr>
<td>V28T</td>
<td>PAL</td>
<td>Variation Pack</td>
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</table>

**Fixed Lens**
- QL029 (2.9 mm)
- QL036 (3.6 mm)
- QL060 (6.0 mm)
- QL080 (8.0 mm)
- QL120 (12 mm)
- QL160 (16 mm)

**Variety Pack**
- QLVP4 (2.9, 3.6, 6.0, 8.0 mm)

**Vari-focal Auto-iris**
- QLAV1 (4.0-9.0 mm)
- QLAV2 (2.8-6.0 mm)
- QLAV3 (9.0-22.0 mm)

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### MODULAR SYSTEM CHART (MagnaView™)

#### Choose your:

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<tr>
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<td>V28C</td>
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**Fixed Lens**
- QL029 (2.9 mm)
- QL036 (3.6 mm)
- QL060 (6.0 mm)
- QL080 (8.0 mm)
- QL120 (12 mm)
- QL160 (16 mm)

**Variety Pack**
- QLVP4 (2.9, 3.6, 6.0, 8.0 mm)

**Vari-focal Auto-iris**
- QLAV1 (4.0-9.0 mm)
- QLAV2 (2.8-6.0 mm)
- QLAV3 (9.0-22.0 mm)

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### MODULAR SYSTEM CHART (VALEOVIEW™)

Silent Witness sets new standards in high-quality modular CCD surveillance. ValeoView™ is Silent Witness' indoor modular camera line that offers superior surveillance. Never before has premium CCD surveillance offered so many flexible options and been so affordable.

#### MODULAR AND FLEXIBLE:
- Tailor to meet your specific requirements.
- Choose from a wide range of cameras including color, black and white and True Day/Night.
- Standard line lock (optional on color)
- Six lens options available.

#### WIDE EYED AND WATCHING:
- "3D" gimbal provides maximum lens rotation and placement.
- True Day/Night option lets you capture perfect color pictures by day and clear black and white images at night.
- No focus shift when switching from day to nighttime scene.
- Compatible with Silent Witness' Quick Change Fixed Lenses (2.9 mm to 16.0 mm).

#### SLEEK, TAMPER RESISTANT DESIGN:
- Clear dome has an adjustable dome insert to conceal camera components without compromising picture quality.
- Low-profile design blends with surroundings for use in a wide range of indoor applications.
- Tamper resistant dome offers secure installation.

#### ENCLOSED INSTALLATION:
- Mounts in minutes to wall or ceiling.
- Cables to flush or surface mount instantly.
- One power connection self-configures to either 12 VDC or 24 VAC.

#### 3-STEP INSTALLATION:
1. Install and wire the housing.
2. Snap in the camera assembly.
3. Camera is ready to go to work for you!

---

### 3 Year Warranty
Cameras

M22

High quality surveillance & uncompromising value. Discreet and attractive, the M22 is ideal for many applications including small businesses, retail, residential and schools.

PRIMAVIEW™ C16

SEE FURTHER THAN EVER BEFORE

The C16 is a low profile fixed mount dome for in-ceiling or pendant applications. With a 5-50 mm vari-focal auto-iris lens you can see farther than ever before. It's tough, adaptable and affordable.

SEE MORE CLEARLY OVER A WIDER AREA:
- 5-50 mm vari-focal auto-iris lens
- Choose from wide range of cameras, including True Day/Night
- 360 degree camera position

TOUGH:
- Vandal-resistant, lightweight polycarbonate dome with adjustable dome insert
- Polycarbonate dome can withstand the impact from a 10 pound sledgehammer

OFFERS INTEGRATED FLEXIBILITY:
- Weather sealed polycarbonate enclosure for indoor and outdoor locations
- One power connection self-configures to either 12 VDC or 24 VAC — standard AC line lock
- Improved enclosure allows for installation into a deep double gang electrical box
- Compatible with Silent Witness’ Quick Change Fixed Lenses: 2.9 mm to 12.0 mm

INSTALL QUICKLY AND EASILY ALMOST ANYWHERE:
- Mounts to a wall or ceiling
- Perfect for schools, malls, airports, and freeways

3 Year Warranty

V25 ARMORDOME

Attractive and rugged, this camera will blend into any interior and is one of the easiest flush mount cameras to install.

SOLID & UNOBTRUSIVE:
- Compact, only 5.5 in. (148 mm) in diameter
- Heavy-duty steel enclosure secured using tamper-resistant screws for added security
- Polycarbonate dome can withstand the impact from a 50 pound sledgehammer

VERSATILE FLUSH MOUNT:
- One power connection self-configures to either 12 VDC or 24 VAC line lock — standard AC line lock

INSTALL ANYWHERE:
- The V25 Armored Dome is perfect for hotels, offices, convention centers and casinos — anywhere surveillance must be discreet

3 Year Warranty

Discreet and Affordable:
- A cost-effective solution using CMOS technology
- Light, yet rugged, the M22 can be installed directly onto a drop ceiling without a backup plate

Unobtrusive:
- Designed to install anywhere without compromising architectural specifications

Incredible Tough:
- Polycarbonate dome produces outstanding optical quality and is hand assembled for competing reliability

Choices to Suit Any Requirement:
- Available in one and two camera versions. The two-camera M22 allows you to look twice at once — perfect for hallways where two separate cameras would normally be required
- Lenses available: NTSC: 2.5 mm, 4.0 mm, 6.0 mm, 12.0 mm
- PAL: 3.7 mm, 6.0 mm, 12.0 mm

2 Year Warranty
Silent Witness' line of miniature surveillance cameras offer a combination of compact size, sharp video imaging, and compatibility with a variety of integrated surveillance systems. The basic and white versions are infrared sensitive. Combine any of the Micro Imaging Heads (MIH) with the Full Infrared Illuminator, and you have great low-cost, nighttime surveillance. Silent Witness MIH cameras are small and discreet, and consume a minimal amount of power. But best of all, these cameras are highly affordable, which is ideal for discreet surveillance, home security, and integrated monitoring solutions.

**MINI-CAM**
The Mini-Cam is ideal for discreet surveillance in residential, small business and retail applications.
- The Mini-Cam measures only 17.5 mm
- High optical resolution
- Swivel mount bracket included
- Lenses available: NTSC 2.5 mm, 4.0 mm, 6.0 mm, 12.0 mm
  - PAL 3.7 mm, 6.0 mm, 12.0 mm

**PINHOLE CAMERA**
- Dimensions — 1 in.(H) x 0.7 in.(L) x 0.7 in.(W)
  - 25 mm x 17 mm x 17 mm
- Color or black and white
- Field of View — 68° Horiz.
- Standard included accessories – mounting bracket, power supply, RCA to BNC adapter
- Weight — 1.5 oz (0.042 kg), including lens & cable

**QUAD DOME**
The Silent Witness Quad Dome provides 360 degree surveillance at an affordable price. Install the Quad Dome when you have multiple areas to monitor.
- Install 2 or 4 SilentWitness Mini Cams into the housing
- Color or black and white
- 360° surveillance
- Flush or pendant mount installation
- Highly affordable
- 2 Year Warranty
SWX45 NIGHT HAWK®
**TRUE 24/7 SURVEILLANCE**
It's small. It's discreet. It takes great pictures — all the time. Capture superior images day or night.

**SWX81 NIGHT HAWK®**
**SWX82 NIGHT HAWK®**
**SWX81 & SWX82 NIGHT HAWK BULLET STYLE CAMERAS — AFFORDABLE AND FEATURE RICH**
These discreet, bullet style cameras are standard with IR illumination, making them perfect for true 24/7 day/night surveillance. Choose from two models: SWX81 with 12 LEDs, or SWX82 with 48 LEDs for larger areas.

**CATCH ALL THE ACTION … 24/7:**
- Peak performance always. Infrared LEDs with sensors see in total darkness.
- 24/7 operation. Capture perfect color pictures by day and clear black and white images at night.
- Auto True Day/Night capabilities. When ambient light drops below a certain point, a mechanical filter within the camera switches from color to black and white and turns on the LEDs.
- No focus shift when switching from day to night time scene.

**VERSATILE CONFIGURATIONS MAKE SELECTION A SNAP:**
- Built-in 4-9 mm vari-focal auto-iris lens (F1.5) for more flexibility.
- One power connection self-configures to 12 VDC or 24 VAC with transient surge protection.
- Standard 12VDC or 24VAC operation.
- Adaptable, polished machined aluminum enclosure comes with protective hood.
- Records, controls, bullet style visually appealing yet impact resistant.
- Tamper-resistant, leichtCam mount. Installation uses locking security screws and concealed wiring.

**SAFE & EFFECTIVE:**
- Infrared illuminators automatically adjust to reduce the risk of eye injury.
- 0 Lux imaging makes it the right choice for installation in nightclubs, sleep clinics, office complexes, ferry terminals or anywhere requiring night monitoring.

**VERSATILE & EASY TO INSTALL:**
- Mounts in minutes to wall or ceiling, inside or outside.
- Ball and socket design allows camera to be swiveled then locked down with tamper resistant screws.
- Easy access for lens and camera board adjustments.
- 3 Year Warranty.

V60 NIGHT HAWK®/V60ARCTIC NIGHT
These durable, Arctics style cameras are standard with IR illumination, making them perfect for true 24/7 day/night surveillance. Choose from two models: V60 with 12, 24, 60, 120, 160, & 192 LEDs, or V60ARCTIC with 12, 24, 60, 120, & 160 LEDs for larger areas.

**SAFE & EFFECTIVE:**
- Infrared illuminators automatically adjust to reduce the risk of eye injury.
- 0 Lux imaging makes it the right choice for installation in nightclubs, sleep clinics, office complexes, ferry terminals or anywhere requiring night monitoring.

**VERSATILE & EASY TO INSTALL:**
- Install in under 15 minutes.
- Measured only 2.15 x 2.75 x 6.25 (55 mm x 69 mm x 154 mm).
- Not compatible with Quick Change lenses.
- 2 Year Warranty.
**SWC20**

**COMPACT SOLUTION**

The perfect solution for a variety of applications—the SWC20 sets a new standard for compact, attractive and reliable security.

**VERSATILE & ATTRACTIVE:**
- Impact resistant polycarbonate enclosure can be painted to meet design specifications
- Fully weather sealed — with user selectable backlight compensation as standard, the SWC20 can be installed virtually anywhere

**QUICK & EASY INSTALLATION:**
- Wall or ceiling mount
- Tamper resistant screws for added security
- Install in less than 15 minutes

**COMPACT SIZE:**
- Measures 3.25 in. x 2.75 in. x 3.0 in. (83 mm x 70 mm x 76 mm)
- Compact & economical, the SWC20 has been installed in homes, office buildings, small businesses, schools, casinos, resorts and as mobile surveillance on school buses

**CHOICES:**
- Choose from black & white or color, high or regular resolution
- Optional sunhood available for high temperature installations
- Compatible with Silent Witness’ Quick Change Lenses (2.9 mm to 16.0 mm)

3 Year Warranty

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**ExitView**

**SMART SURVEILLANCE**

ExitView combines a high performance CCD camera with an height strip and is one of the most unobtrusive solutions to tighten in-store security. ExitView can be mounted on or beside the door frame, and will capture the face of the culprit at eye-level, in full color, as they exit your premises.

**FEATURES:**
- A discreet, cost effective solution for loss prevention, shrinkage and robbery
- High performance color CCD camera
- Functional height strip
- Easy to install
- Optional 15° angled adapter to increase field of view
- Available in silver or black to blend with your decor

**EASE OF USE:**
- This value priced surveillance solution is plug and play — installation is quick and easy
- Ideal for retail applications: gas stations, convenience stores, malls, fast food restaurants, small businesses, banks, casino areas, and other commercial enterprises

2 Year Warranty

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**SWX80**

**BULLET STYLE CAMERA**

The SWX80 pulls out all the stops by offering great functionality at an affordable price. The True Day/Night version of this camera offers superior picture quality around-the-clock, when accompanied with external IR illumination. This discreet, bullet style camera makes it perfect for architecturally sensitive applications.

**INSTALL AND ADJUSTS EASY:**
- Mounts in minutes to wall or ceiling inside or outside
- Ball and socket design: Swivel camera then lock it down with tamper resistant screws
- Easy access for lens and camera focused adjustments

**DETECTS INTRUDERS:**
- The SWX80 is more secure than a body camera
  - It is difficult to knock out of position
  - Vines are concealed so they can’t be cut
  - The camera can’t be disconnected or tampered with

3 Year Warranty

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**www.silentwitness.com**
VI600 RUGGED & RUGGED
The design and quality of the VI600 Rugged camera make it the ultimate choice for any application.

TOUGH & RUGGED:
- Weatherproof from a 12 gauge shotgun or 6 mm handgun
- Dust tight enclosure
- Tamper resistant screws

ATTRACTIONAL DESIGN:
- Weather resistant, metal enclosure
- White hot LED (200,000 hours)
- Wide Dynamic
- True Color Rendering
- Multi-Purpose
- High Security Surveillance
- Weather-tight cable opening
- One power connection
- Quick Change Lenses
- Fixed Lenses
- Multi-Purpose
- 3 Year Warranty

V360S Z HIGH SECURITY SURVEILLANCE
The cameras are for the professional user. They are specifically designed for high-end security applications such as the military and petrochemical industries, and especially harsh desert and tropical environments.

TOUGH & RUGGED:
- Designed for environments such as Saudia Arabia
- 1/4" thick tempered glass window
- Dust tight enclosure
- Water resistant
- Stainless steel sunshield

ATTRACTIONAL DESIGN:
- Weather resistant, metal enclosure
- Weather-tight cable opening
- One power connection
- Quick Change Lenses
- Fixed Lenses
- Multi-Purpose
- V50 Complete/Desert Hawk
- Camera Boards
- Camera BoarDs
- 2 Year Warranty

V50WEDGEVIEW
The V50 WedgeView is an easy blend into décor or design specifications — ideal for casinos, resorts, luxury homes, schools, airports and more.

ATTRACTIVS FEATURES:
- Ceiling or wall mount
- Adjustable camera angle
- Tamper resistant screws
- Stainless steel U-bracket
- 5/4 mm manual varifocal auto iris lens
- Die-cast zinc enclosure
- Anti-corrosion
- Weather resistant
- True Color Rendering
- Multi-Purpose
- Weather-tight cable opening
- One power connection
- Quick Change Lenses
- Fixed Lenses
- Multi-Purpose
- Attractive Design
- 2 Year Warranty

VI600 COMPLETE DESERT HAWK
The VI600 has been installed in schools, office complexes, hotels, casinos and restaurants — even on school buses and outside rail đầu locomotives.

MULTI-PURPOSE:
- High Security Surveillance
- Weather-tight cable opening
- One power connection
- Quick Change Lenses
- Fixed Lenses
- Multi-Purpose
- Attractive Design
- 2 Year Warranty

QUICK CHANGE LENSES

EXCLUSIVE TO SILENT WITNESS, QUICK CHANGE LENSES ARE AN EASY AND ECONOMICAL SOLUTION FOR LENS IN THE V50 BULLET RESISTANT CAMERAS.

QUICK CHANGE LENSES (2.9 mm to 16.0 mm)
- Quick Change Lenses
- Fixed Lenses
- Multi-Purpose
- Attractive Design
- 2 Year Warranty
POWER SUPPLIES AND POWER DISTRIBUTION MODULES

Silent Witness' multiple output 24 VAC Power supplies and AC/DC Power Distribution Modules with individually fused outputs, individual screw terminals, individual camerasINCLUDES LED's, master power switches and master power LED's (designed with customer needs and feedback in mind) the power supply and power distribution modules from Silent Witness make installation quick and easy. Choose from 4 or 8 outputs and choose the gains work out of your installations. Suitable for every application — ease and convenience at the flick of a switch.

AC POWER SUPPLY FEATURES:
- UL/ULc Listed
- 24V DC output
- Individual 1/2" and 3/4"
conduit knockouts to suit every application
- Power cord supplied
- Individual fused outputs
- Individual status LED
- Master power switch
- Master power LED
- 120 VAC

AC/DC POWER DISTRIBUTION
MODULE FEATURES:
- 12 VDC or 24 VAC input
- 2.1 mm barrel connector or screw terminal input
- Individual status LED
- Master power switch
- Master power LED
- 110 VAC

PENDANT MOUNT KIT
(MAGNAVIEW V28R AND PRIMAVIEW C16)

SUPPLIED:
- Pendant arm
- Rubber gasket (mounted on the arm)
- Lock washer (x4)
- Base mounting screws (x4)
- Adapter plate (C16)

NOT SUPPLIED:
- 3/4" (OD) Pipe
- Teflon Tape

WALL MOUNT KIT
(MAGNAVIEW V28R AND PRIMAVIEW C16)

SUPPLIED:
- Pendant arn
- Rubber gasket (mounted on the arm)
- Pendant cover
- Rubber gasket (mounted on the cover)
- Lock washer (x4)
- Base mounting screws (x4)
- Adapter plate (C16)

NOT SUPPLIED:
- 3/4" (OD) Pipe
- Teflon Tape

AUDIO (V28R, V28S)

AUDIO OUTPUT:
- 600 ohms Impedance

AUDIO FREQUENCY RESPONSE:
- 50 Hz to 5 kHz @ -3 dB
- 200 Hz to 8 kHz @ -12 dB

AUDIO SENSITIVITY:
- 1 V p-p: 55 dB SPL (sound pressure level) @ 10 ft. (3.05 m) speech level audio
Audio bandwidth optimized to eliminate unwanted noise interference

HALF TINT DOMES

- Reduces light sensitivity by 54%
- Polycarbonate
- Available in small and large domes
- Small: 82.5mm diameter or 3.25" (available only for V29A, V28C, C12, V25)
- Large: 96.5mm diameter or 3.8"
VORTEX PTZ DOME
The PTZ’s open architecture design protects your investment by allowing the adaptation of future technologies.

FEATURES:
- Includes camera, zoom lens, pan/tilt, and receiver all in one package
- 600°/second rotation, fastest in the industry
- 22x optical zoom and 8x digital magnifier deliver the power of 176x zoom
- Optically clean, weatherproof polycarbonate dome
- On-board diagnostics and non-volatile memory keeps track of all maintenance
- Universal design for easy installation and retrofit in most existing installations
- Ideal for low light applications
- 1 Year Warranty

QUARTERBACK™ SYSTEM LEVEL CONTROLLER
Simplify your installation process with a powerful auto-configuration feature that will allow you to choose from several preprogrammed configuration scenarios. The Quarterback is an ideal companion to the SilentWitness Vortex PTZ camera.

FEATURES:
- Two RS-485 and two RS-232 ports — allowing control of 66 devices
- Built-in 4 x 1 video switcher with automatic routing
- Four input ports
- Variable-speed joystick (button model also available)
CAMERA FEATURES COMPARISON — CHOOSE THE CAMERA THAT SUITS YOU

## Camera Quick Select

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## References

THE CAMERA THAT SUITS YOU

CAMERA FEATURES COMPARISON — CHOOSE THE CAMERA THAT SUITS YOU

CAMERAS

References

SWE-Catalog06-16-03-Cameras.qxd  9/3/2003  8:38 AM  Page 24
Cameras

Lenses Chart

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- View Angle Horizontal
  - 90° 74° 50° 22° 15° 8.3° 5.5° 3° 2° 1° 1°
  - 90° - Wide 60° - Tele 45° - Tel 30° - Tall 20° - Wide 17° - Tele

- View Angle Vertical
  - 67° 50° 32° 17° 11° 8° 5.7° 3.5° 2° 1° 1°
  - 67° - Wide 52° - Tele 40° - Tall 30° - Tele 25° - Wide 21.7° - Tele

- Maximum Aperture
  - F2.0 F2.0 F2.0 F2.0 F2.0 F1.4 F1.4 F1.5
INFRARED ILLUMINATORS

Bulb/LED

**LUMAVIEW® SWX75/SWX200**

**ILLUMINATING YOUR WORLD**

When you require tough, mission critical monitoring in low-light or completely dark conditions, LumaView outperforms all other illuminators. LumaView enables IR-sensitive CCTV cameras to produce high-quality images under nighttime conditions without imposing intensive, obtrusive visible light illumination.

**DIRECT ILLUMINATION:** Choose from 3 types of filters to suit your specific application:
- Overt Illumination produces a distinct red glow that warns of the presence of IR light (850 nm)
- Semi covert Illumination produces a faint red glow that can be detected with a snared eye (900 nm)
- Full covert Illumination avoids any red glow, making it impossible to detect the presence of IR light (960 nm)

**OPTICAL EFFICIENCY:**
- Unique IR enhanced output 50 mm diameter reflectors offering maximum output, reliability and bulb life
- Filters available in spot, medium flood and flood beam configurations
- Large area heat sinks ensure heat is quickly conducted away from the base of the bulb, prolonging bulb life — greater than 4000 hours

**MODULAR AND VERSATILE:**
- Filters are mounted in push-on rubber molds that allow ease of replacement
- Standard filters are interchangeable between Illuminators
- Choose from a wide variety of options

**ADJUSTABLE:**
- ±30° sweep when wall mounted
- 360° sweep when ceiling mounted

**INFRARED ILLUMINATOR**

Choose from a wide variety of options:
- Three beam patterns: spot (10°), medium flood (30°), wide flood (60°)
- Two mounting options: dual arm bracket for Pan/Tilt heads or arm mount
- Required power supply has extra 24 VAC output for companion camera, auto-on/off photo cell, alarm output relay and remote triggering

**SAVE ON OPERATING COSTS:**
- Less expensive to operate than traditional white lights
- Specially designed gold optics and a quartz halogen light source provide optimal range and efficiency at realistic light in the infrared spectrum
- Average bulb life is 3000 hours

**PRECISION OPTICS/SHARP BRILLIANCE:**
- Superior quality, break-resistant, precision true IR glass filters that offer optimal transmissibility
- Low voltage precision-quartz halogen bulb is pre-focused and engineered for longer bulb life

**FLEXIBLE OPTIONS FOR YOUR UNIQUE APPLICATION:**
- Ideal for perimeter surveillance, airports, military installations, industrial and manufacturing sites, train stations, ferry terminals, parking lots and garages, playgrounds and more.

**SWX300-cont’d**

Choose from 3 types of filters to suit your specific application:
- Overt (730 nm), semi-covert (830 nm), completely covert (960 nm)
- Three beam patterns: spot (10°), medium flood (30°), wide flood (60°)
- Two mounting options: dual arm bracket for Pan/Tilt heads or arm mount
- Required power supply has extra 24 VAC output for companion camera, auto-on/off photo cell, alarm output relay and remote triggering

**INSTALL IT FAST AND ENJOY HASSLE-FREE OPERATION:**
- Wall or ceiling mount uses tamper-resistant screws and steel U-bracket
- Quartz halogen bulb is easy to replace
- Required power supply has alarm out should a failure occur inside the unit

**RELIABLE STYLING FOR OUTDOOR USE:**
- Rugged, machined aluminum enclosure provides outstanding heat transfer properties for cooler operation
- Weather sealed for outdoor use

**THE PUCK**

Infrared Illuminator

The Puck works with most IR sensitive CCTV cameras to enable the capture of images in complete darkness at a distance of up to 40 feet (12 meters). Measuring less than 4.5 inches in diameter and weighing under one pound, the Puck will inconspicuously install with any IR-sensitive CCTV camera.

**DIRECT ILLUMINATION:**
- Measures less than 4.5 in (114 mm) in diameter
- Weight under 1 lb (0.45 kg)
- Overt illumination produces a distinct red glow that warns of the presence of IR light (850 nm)
- Semi covert illumination produces a faint red glow that can be detected with a snared eye (900 nm)
- Full covert illumination avoids any red glow, making it impossible to detect the presence of IR light (960 nm)

**DISCREET ILLUMINATION:**
- Use alongside most IR sensitive CCTV cameras
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**MODULAR AND VERSATILE:**
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DVMS DUPELX DIGITAL VIDEO MANAGEMENT SYSTEM
Our premium line of digital recorders — DVMS Duplex (DVMS1600 and DVMS800) is a complete, integrated digital video management system designed to replace both VCR and multiplexer. Expect the convenience of secure remote management and enhanced, highly programmable event reporting features. DVMS Duplex is an ideal recording solution for virtually any application, particularly retail and banking.

COMPLETE INTEGRATED DIGITAL VIDEO MANAGEMENT SYSTEM:
- System video input channels: 16 video input channels (DVMS1600)
- System video input channels: 8 video input channels (DVMS800)
- Up to 60 images per second (50 ips PAL) record speed (DVMS1600)
- Up to 30 images per second (25 ips PAL) record speed (DVMS800)
- QNX real-time operating system and fault-tolerant design allows for quick and reliable recovery in the event of a power loss
- Secure high-resolution video and audio storage
- True duplex operation allows local video playback without interrupting recording
- Event reporting and multi-zone video motion detection
- Four text insertion ports for POS/ATM text monitoring
- Image authentication process assures picture integrity
- Covert operation to hide display of selected cameras
- Expand your storage capacity as needed, options include internal and external hard drives, removable drives, and DVD-RAM
- Supports up to 1 terabyte of internal storage

FLEXIBLE REMOTE MANAGEMENT:
- Remote video monitoring and image management via LAN/WAN, DSL or PSTN using Remote Access Software (RAS)
- Up to 3 simultaneous remote (RAS) users
- Upgrade firmware locally or remotely without interrupting system settings
- Simultaneous multi-screen viewing and spot monitor video output
- Camera homing upon alarm condition
- Email Alert: automatic alarm notification over TCP/IP networks

FULL-FEATURED EVENT REPORTING:
- Monitor, access and retrieve evidence instantly using automated search filters — motion, text and alarm
- Video evidence monitoring and image management via LAN/WAN, or PSTN
- Simultaneous multi-screen displaying and video output
- Camera homing upon alarm condition
- Email Alert: automatic alarm notification over TCP/IP networks

2 Year Warranty (1 Year Warranty on Hard Drive)

DVMS SIMPLEX DIGITAL VIDEO MANAGEMENT SYSTEM
Available in 1, 4, 8, and 16 channel models, the DVMS Simplex allows you the most cost effective upgrade to a professional digital recording solution. The DVMS Simplex line incorporates all the functionality of VCR and multiplexer with remote management tools and full-featured event reporting.

UPGRADE TO DIGITAL RECORDING:
- QNX real-time operating system and fault-tolerant design allows for quick and reliable recovery in the event of a power loss
- Secure high-resolution video and audio storage
- Programmable, multi-zone video motion detection for up to four cameras
- Single-channel audio recording
- 1 image per second to 15/12.5 ips (NTSC/PAL) record speed
- Connect up to four POS/ATMs to one physical port using text string and camera correlation technique

FLEXIBLE REMOTE MANAGEMENT:
- Remote duplex operation via RAS — view live or recorded video without interrupting local recording
- Remote management via LAN/WAN, DSL or PSTN using Remote Access Software (RAS)
- Change system configuration or upgrade DVMS firmware without a site visit

RESPOND QUICKLY TO CRITICAL EVENTS:
- Monitor, access and retrieve evidence instantly using automated search filters — motion, text and alarm
- Main monitor viewing — single or sequence, covert, camera upon newest alarm

APPLICATIONS:
- Ideal for retail, warehouse, or manufacturing businesses, convenience stores and service stations

2 Year Warranty (1 Year Warranty on Hard Drive)

DVMS100
The DVMS100 is a single channel, digital video management system designed as a VCR replacement. It combined the high-resolution digital recording capabilities of the DVMS100 with remote management tools and a host of event reporting features. Expect the convenience of remote management and enhanced, highly programmable event reporting features. DVMS100 is an ideal recording solution for virtually any application, particularly retail and banking.

FEATURES:
- Single video input channel
- Full-featured event reporting
- Single-channel audio recording
- Programmable motion detection

2 Year Warranty (1 Year Warranty on Hard Drive)
**TL-ONE DIGITAL VIDEO RECORDER**

**LOW COST UPGRADE TO DIGITAL:**
- Low cost migration from VCR to digital technology
- "Drop-in replacement" works with most multiplexers and quad processors
- Camera switcher interface synchronizes the TL-One DVR with a multi-camera system

**RECORDING COST OF OPERATION:**
- Eliminate costly tape management — images are stored digitally
- Disposable storage system reduces operating costs typical of traditional VCR systems

**ADVANCED DIGITAL HARDWARE MANAGEMENT:**
- Retract videocassette tray — advanced video search tool uses time indexing and arc menu
- VCR-style playback — freeze frame, fast forward/reverse, slow forward/reverse without image dropping or tearing

**YOU INSTALL THE HARD DRIVE — OPTED UNLESS:***
- Hard drive not included — user supplies hard drive
- Easy hard drive installation/upgrade procedure

**HIGH RESOLUTION/VIDEO STORAGE AND PLAYBACK:**
- Clock, crisp video every time
- Choose field or frame recording — user configurable
- Set playback speed from 1/32x to 60x
- Select record refresh rates from 1 fps to 60fps (NTSC only)
- Search by time, last record, full clip list, or alarm list

**INTUITIVE, SIMPLE OPERATION:**
- Front panel finger-tip controls provide VCR-like operation
- Alarm input/output uses simple contact closure

**HIGH RELIABILITY:**
- Real-time operating system provides reliable, stable operation
- Fault-tolerant design provides quick, reliable recovery from power loss

**DESKTOP INSTALLATION OR 19 IN. RACK MOUNT:**
- Includes 19 in. rack mount kit

**2 Year Warranty**

---

**DDR400 DIGITAL DATA RECORDER**

This beyond passenger and driver safety Silent Witness introduces the new DDR400. The DDR400 digital data recorder captures high resolution images and clear audio — superior to conventional VCRs. Expect longer recording times and increased picture quality.邓小平 quickly records quality is critical to potential problems. Connect up to four DDR DVRs to monitor all areas of the vehicle.

- DDR400 features:
  - Camera switcher interface synchronizes the DDR400 with a multi-camera system
  - Clock, crisp video every time
  - Choose field or frame recording — user configurable
  - Set playback speed from 1/32x to 60x
  - Select record refresh rates from 1 fps to 60fps (NTSC only)
  - Search by time, last record, full clip list, or alarm list

**FEATURES:**
- User-friendly interface
- High resolution/HD storage
- Clock, crisp, clear images
- Video index and event type
- Retrieve video clips fast — advanced video search tool uses time indexing and arc menu
- Clock, crisp video every time
- Choose field or frame recording — user configurable
- Set playback speed from 1/32x to 60x
- Select record refresh rates from 1 fps to 60fps (NTSC only)
- Search by time, last record, full clip list, or alarm list

**DIGITAL DATA RECORDER**

- Includes 19 in. rack mount kit

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**DVMS STORAGE OPTIONS**

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Note: Measured in GB unless otherwise noted. Based on 20:1 wavelet compression. Based on NTSC format only. For PAL format multiply the digital capacity by 0.845.

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**MPT400MPT400N**

**ATM INTERFACE:**
- Connect up to 4 ATM's to DVMS flagship or "drop-in replacement"
- Software detects and configures serial port (MPT400N)

**HIGH RESOLUTION/VIDEO STORAGE AND PLAYBACK:**
- Clock, crisp video every time
- Choose field or frame recording — user configurable
- Set playback speed from 1/32x to 60x
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- Search by time, last record, full clip list, or alarm list

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- Connect up to 4 ATM's to DVMS flagship or "drop-in replacement"
- Software detects and configures serial port (MPT400N)

**ADVANCED DIGITAL HARDWARE MANAGEMENT:**
- Retract videocassette tray — advanced video search tool uses time indexing and arc menu
- VCR-style playback — freeze frame, fast forward/reverse, slow forward/reverse without image dropping or tearing

**YOU INSTALL THE HARD DRIVE — OPTED UNLESS:**
- Hard drive not included — user supplies hard drive
- Easy hard drive installation/upgrade procedure

**HIGH RESOLUTION/VIDEO STORAGE AND PLAYBACK:**
- Clock, crisp video every time
- Choose field or frame recording — user configurable
- Set playback speed from 1/32x to 60x
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**INTUITIVE, SIMPLE OPERATION:**
- Front panel finger-tip controls provide VCR-like operation
- Alarm input/output uses simple contact closure

**HIGH RELIABILITY:**
- Real-time operating system provides reliable, stable operation
- Fault-tolerant design provides quick, reliable recovery from power loss

**DESKTOP INSTALLATION OR 19 IN. RACK MOUNT:**
- Includes 19 in. rack mount kit

**2 Year Warranty**

---

**DDR400 DIGITAL DATA RECORDER**

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  - Choose field or frame recording — user configurable
  - Set playback speed from 1/32x to 60x
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  - Search by time, last record, full clip list, or alarm list

---

**DVMS STORAGE OPTIONS**

<table>
<thead>
<tr>
<th>Recording Time</th>
<th>1 Day</th>
<th>3 Days</th>
<th>7 Days</th>
<th>15 Days</th>
<th>30 Days</th>
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<tbody>
<tr>
<td>1 EPS</td>
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<td>379.44</td>
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<td>9.17</td>
<td>33.32</td>
<td>99.52</td>
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<tr>
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<td>15.29</td>
<td>55.56</td>
<td>165.84</td>
<td>373.60</td>
<td>941.28</td>
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<td>180.72</td>
<td>513.04</td>
<td>1205.76</td>
<td>2814.40</td>
</tr>
</tbody>
</table>

Note: Measured in GB unless otherwise noted. Based on 20:1 wavelet compression. Based on NTSC format only. For PAL format multiply the digital capacity by 0.845.
**TLC2100**

High Density

- Super VHS performance for high-resolution images
- 520-line resolution in monochrome or color
- Uses standard VHS tape or S-VHS tape
- Composite and Y/C video input
- Latest technology transport mechanism
- All other features of the TLC2300 recorder

**TLC2100HD**

Super High Density

- Super VHS performance for high-resolution images
- 600-line resolution in monochrome or color
- Uses standard VHS tape or S-VHS tape
- Composite and Y/C video input
- Latest technology transport mechanism
- All other features of the TLC2300 recorder

**TLC2100HD-S16**

Super High Density

- Greater flexibility
- Easier installation
- Lower cost than separate component systems by combining a 16-position switcher, transaction verification, ATM text inserter, time/date/transaction search, RS-232 remote control and multiplexer encoding into a single, integrated package.

**TLC2100HD-TDS**

Super High Density

- Individual formatting for time, date, system code and camera title
- Separate ports for text insertion and remote control
- Time/date and/or transaction search capabilities
- Super VHS performance for high resolution images
- Programmable timer output
- Self-cleaning heads

**TLC2100SHD**

High Density

- Super VHS performance for high-resolution images; 400-line resolution in monochrome or color
- Uses standard VHS tape or S-VHS tape
- Composite and Y/C video input
- Latest technology transport mechanism
- All other features of the TLC2100 recorder

**TLC2100SHD-S16**

Super High Density

- Greater flexibility
- Easier installation
- Lower cost than separate component systems by combining a 16-position switcher, transaction verification, ATM text inserter, time/date/transaction search, RS-232 remote control and multiplexer encoding into a single, integrated package.

**TLC2100SHD-TDS**

Super High Density

- Individual formatting for time, date, system code and camera title
- Separate ports for text insertion and remote control
- Time/date and/or transaction search capabilities
- Super VHS performance for high resolution images
- Programmable timer output
- Self-cleaning heads

**TLC2100-S16**

High Density

- Integrated 16 input switcher that easily accommodates speed changes and day and night sequencing
- One low resolution video input for banking applications, automated teller machines and similar applications
- Integrated ATM text inserter prints text on tape during ATM transactions and syncs time/date to ATM network
- Automated time/date/transaction search accurate to the nearest second
- RS-232 input for remote control

**VCR ACCESSORIES**

- **MODEL RM18/RM21:** A convenient rack mount kit designed for mounting the TLC2100. The RM18 or RM21 is 7” high and fits a standard 19” wide equipment rack.

- **S-VHS T130 CASSETTE:** 8% more capacity than other S-VHS tapes
- High quality, professional grade tape, the metal oxide is refined to deliver extremely sharp video images.

- **VCRLB:** Our VCR Lock Box is a dust-free, tamper-resistant steel cabinet that is large enough to protect your video recorder as well as a quad, switcher or other component. Accommodates both front-loading and top-loading recorders.

- **“Y” CABLE:** An easy-to-use programmable RS-232 interconnect cable for data insertion of electronic cash register and automatic teller machines to any of the GYYR® multiple protocol models. The “Y” cable is included with the GYYR® Model 5230MP Text Inserter.
TANGO! II

NETWORK VIDEO SERVER FOR TCP/IP NETWORKS

Tango II instantly transforms a CCTV system into a remote management tool able to simultaneously provide video to multiple users at remote locations.

Tango II provides a high-speed network connection for up to four composite video inputs. This compact, self contained unit requires no unique cabling or additional hardware and no special software. A standard web browser installed on the user’s PC is all that’s required to access the Tango II.

- Supports up to 4 composite video inputs
- Capable of transmitting high-quality images at real-time speeds
  (up to 30 images a second on a 100 Base TX network)
- Compatible with TCP/IP networks (LAN/WAN, Internet)
- Remote camera (PTZ), VCR and multiplexer control
- User defined pre- and post-alarm video storage
- Access based on password authorization

S1000 (NTSC) / S1000CE (PAL)

WIRELESS SURVEILLANCE

Wireless surveillance cameras with monitoring systems. It provides high range, point-to-point, digital wireless link for video, audio and alarms. Using superior interference rejection techniques, fading and ghosting are virtually eliminated. The digital modulation transmission in the 2.4 GHz band and Direct Sequence Spread Spectrum (DSSS) produce reliable link operation assuring crisp video.

S1000 (NTSC):
- Up to 4 miles line-of-sight with built-in antenna 
- Greater range with high gain antenna

S1000CE (PAL):
- Up to 3 miles range with built-in antenna 
- Greater range with high gain antenna

The Silent Witness S1000CE is CE marked and approved for sale in the UK and Europe.

COMMON SPECIFICATIONS:
- A single S1000 digital link connects video transmissions, Pan-Tilt-Zoom control, audio and alarm information.
- 128 bit encryption of video for privacy.
- Compact size and light weight makes wireless site installation easier than ever.
- 180° directional audio (PTZ/PTL)

The Silent Witness S1000 and S1000CE is ideal for fixed ground surveillance: commercial applications like parking lots, corporate campuses, shopping malls, warehouses, power plants, car yards, airports, ports and harbors, oil rigs, construction sites and public events.
DIGITAL CHAPERONE™ DDR

Beyond passenger and driver safety needs, Silent Witness introduces the all new Digital Chaperone DDR system. Using the latest digital technology, this reliable, intelligent vehicle surveillance system provides:

- A fully integrated digital network system
- Wider coverage area with four digital cameras
- Reliable, detailed data collection
- Dependable, long term unattended recording
- Time and cost savings
- Open architecture for future external data gathering

Passenger safety and uncertain times demand innovation. We need more information. We want to collect more data. The Digital Chaperone all-digital video recorder collects more detailed information and records data fast and reliably. It also provides greater picture clarity, audio audio, longer recording time on a single capacity hard drive, and low maintenance in one compact, rugged digital recorder.

EXPAND YOUR SAFETY NET:
- Be proactive: respond quickly to potential problems. Connect up to four DDR Digital Cameras to monitor all areas of the vehicle. Images are stored on the DDR400 Recorder hard drive.
- User-friendly BusView™ software lets you quickly find, print, distribute, and archive images.
- Record more data—images are recorded with vehicle ID, time and date, camera name and eight status inputs. Descriptive text can be up to 20 characters in length.
- Protect your buses even when they’re parked. A unique alarm mode starts recording immediately to identify bus vandalism.

DURABILITY AND RELIABILITY:
- Easy-to-install, quality components comprise the Digital Chaperone DDR system.
- The DDR400 Recorder runs on an embedded OS for reliable, long term unattended operation.
- We offer a low-cost option for an open architecture system to reduce cost and strain.

BUSINESS TECHNOLOGY LEAP:
The Digital Chaperone DDR system features an open architecture for future external data gathering.

SAVINGS:
- BusView™ software has an intuitive interface for advanced laptop viewing, quality search, and image retrieval.
- Print and distribute images quickly as required.
- Archival video and audio files for future use. Say goodbye to daily maintenance and tape libraries.

DIGITAL CHAPERONE™ MDR

Economical, without compromising features or durability.

- Easy upgrade — drop-in VCR replacement.
- Save time and money on maintenance.
- See images in greater detail.

DIGITAL CHAPERONE™ MDR

- Hear audio clearer than ever before.
- Increase student safety and reduce risks to your drivers.
- Avoid lost images due to worn out VCR tapes.
- Customize your system to meet your individual needs.

This new generation digital video recorder gives you better pictures, clearer audio, longer recording time, and little maintenance in one compact, rugged digital recorder. Enjoy the ease and convenience of VCR with the leading edge features of a digital recorder.

CLARITY:
- Expect clearer sharper picture quality and cleaner audio than with conventional technology. With the Digital Chaperone, you also get longer recording time with no loss of image quality.

KEEP CHILDREN SAFE:
- Provides fast response to potential problems inside and outside the bus. Images are stored on the digital recorder hard drive that are easy to print, view, distribute, and archive at your fingertips.

SAFE AND EASY:
- Install it, configure it, then forget it. Let the Digital Chaperone do the rest. No images are lost due to faulty or worn out tapes. Unlike conventional VCRs, there are no tapes to replace or store.

The Digital Chaperone is economical, without compromising features or durability. There is no daily maintenance, no tape libraries to maintain and less time spent searching for an image.

RELIABILITY:
- The Digital Chaperone consists of one or two cameras, and an industrial grade digital recorder with a built-in switcher housed in a sturdy and impact resistant enclosure.
Digital Chaperone MDR cont’d

KNOW WHERE YOUR BUS IS!

An optional GPS module records position, direction and speed.

VERSATILITY:
Customize the system to suit your individual needs. Start with the MDR100 digital recorder. Then choose from a number of different cameras. Use GPS systems to provide location in the form of latitude and longitude. This information can be plotted against any map to the exact location of the pick-up and drop-off points for the students.

SW 5410 SYSTEM

The latest in video technology from Silent Witness — designed for the school bus market. Economical without compromising features or durability, the SW5410 system is the ideal solution for school bus video monitoring. Depending on need, two cameras can be teamed up with the New Industrial grade VCR housed in a tamper resistant enclosure.

The SW5410 system can provide up to nine hours of recording on 1550 tape.

MAINTENANCE FREE RECORDING:
- Program to stop at the end of tape or rewind to the beginning
- Continuous recording
- Single recording with vehicle ignition

HEAR BETTER THAN EVER:
- Two audio channels for longer buses
- Increased vibration resistance

SAFER STOPS:
- Built-in stop arm switch to record outside the bus when the stop arm has been activated
- Built-in stop arm switch to record inside the bus when the stop arm has been activated

SAVE SPACE IN THE BUS:
- Can be mounted either horizontally or vertically

CAMERA FLEXIBILITY:
- Choose from four camera styles to meet your installation requirements

EASY TO PROGRAM:
- Wireless remote allows for easy on-screen programming
- Front mounted video and audio output jacks

SAFETY AND SECURITY:

KNOW WHERE YOUR BUS IS!

GPS RECEIVER

WHAT IS GPS?

GPS stands for Global Positioning System. This technology has become increasingly important in transportation management because of its low cost, availability, accuracy and ease of use. GPS systems capture satellite signals and then calculate exact positioning based on triangulation of the signals. For school district transportation directors, this provides some interesting benefits.

KNOW WHERE YOUR BUS IS!

GPS systems can provide location in the form of latitude and longitude. This information can be plotted against any map to the exact location of the pick-up and drop-off points for the students.

Coupled with a mobile surveillance system, you have a visual record showing the time, date, and GPS information of when and where students board or alight from the bus.

SWS 410 SYSTEM cont’d

PLAN THE SAFEST AND MOST EFFECTIVE TRAVEL ROUTE:

From a route management perspective, the Transportation Director can review taped or digital records to see how much time it takes to get from point A to B. GPS information coupled with the recorded time shows exactly how long it takes a bus to get from destination to destination. The GPS information recorded includes bus direction and travel speed of the vehicle. Taping this information and the head count from the video provides Transportation Directors an effective route planning tool.

EASE OF INSTALLATION:

Installers will appreciate the ease of installation for a GPS system. All that is required for the installation is to plug the GPS receiver into the power and signal harness and then thread the antenna with a waterproof mount.

You get high accuracy speed without tapping into the transmission. The GPS antenna is then fixed to the roof of the bus.

GPS RECEIVER

KNOW WHERE YOUR BUS IS!

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Coupled with a mobile surveillance system, you have a visual record showing the time, date, and GPS information of when and where students board or alight from the bus.

STOP ARM SYSTEM

Keeping children in their seats and discipline problems off the bus — the video surveillance systems by Silent Witness are proven to reduce or eliminate risks to your drivers and students — today’s Stop Arm System comes standard with the SWS410 System and Digital Chaperone™ MDR. The SWS310 System can be easily upgraded.

HOW IT WORKS:

The Stop Arm System accepts video signals from two different sources — the camera inside the bus and the stop arm camera. Silent Witness’ all weather SWC20 camera is mounted outside the bus, or inside, facing out. When the stop arm is activated, the system directs the video to the internal camera. Images are stored on the VCR tape or digital recorder hard drive. They can be easily retrieved and provided to authorities.

The microphone allows the driver to voice record the license plate number of an offender as additional evidence. When the stop arm disengages, the video signal is once again directed to the internal camera.

Recorded video provides solid proof of the incident and can potentially be used as evidence in court. In one school district alone, seven cars were caught on video, within two to three minutes, as they illegally passed an unloading school bus.

KNOW WHERE YOUR BUS WAS:

GPS systems can provide location in the form of latitude and longitude. This information can be plotted against any map to the exact location of the pick-up and drop-off points for the students.

Recorded video provides solid proof of the incident and can potentially be used as evidence in court. In one school district alone, seven cars were caught on video, within two to three minutes, as they illegally passed an unloading school bus.
CAMCORDER SYSTEMS

The Camcorder System features a Panasonic VHS-C camera and a Sony 8mm camera modified for the mobile environment and housed in the secure, corrosion-proof V30 enclosure. Maximum recording time is four hours for the Sony on 8 mm tape, while the Panasonic provides four hours of recording time on VHS-C tape. In addition, the enclosure itself may be used independently as a camera allowing the camera to be moved from bus to bus. This versatility will allow you to keep your costs down while not compromising safety or security.

V30 ENCLOSURE:
- Includes Visu-System, a unique way of disguising the contents of the enclosure, giving the appearance of a camera at all times
- Made of ABS, a non-corrosive material federally certifiable for use in aircraft compartments and school buses
- Features an LED light for added deterrence
- Includes wiring harness, hardware and three adjustable mounting brackets
- Built with safety in mind — no sharp corners and electrically isolated
- 9" high, 7 1/8" wide, and 8 3/4" deep — and weighs under 2 pounds!

SWC20
COMPACT SOLUTION

The perfect solution for a variety of applications — the SWC20 uses a Panasonic VHS-C camera and a Sony 8mm camera, housed in the secure, corrosion-proof V30 enclosure. The versatility allows the SWC20 to be used independently as a camera, allowing it to be moved from bus to bus. This versatility will allow you to keep your costs down while not compromising safety or security.

VERSTY & ATTRACTIVE:
- Fully weather treated — with user selectable backlight compensation as standard, the SWC20 can be used in all conditions
- Wall or ceiling mount
- Tamper resistant screws for added security
- Installs in less than 15 minutes

D2SM ANGLEDOME CAMERA
Wedge-Style design camera with microphone.

HERE’S LOOKING AT YOU:
- "3D" gimbal provides maximum lens rotation
- Unobtrusive, small wedge-style enclosure
- Audio

1-2-3 INSTALLATION:
1. Camera assembly easy to install and remove
2. Captive screws mean no misplaced hardware

EASY MAINTENANCE:
- Rugged, high-impact dome and housing reduce risk of tampering
- Install, then forget about it

V60 NIGHT HAWK

The V60 Night Hawk sheds new light on surveillance with long lasting quality and an uncompromised picture.

RUGGED CCTV:
- Built with rugged components to ensure long lasting quality
- Tamper resistant screws for added security

SAFETY & EFFECTIVE:
- Built-in infrared illuminators automatically adjust to reduce the risk of eye injury

MULTIPLE OPTIONS:
- 2.9, 3.6, 6.0, 8.0, 12.0 & 16.0 mm lenses

SAFE & EFFECTIVE:
- Built-in infrared illuminators automatically adjust to reduce the risk of eye injury

COMPACT & EASY TO INSTALL:
1. Install and wire the housing
2. Snap in the camera assembly
3. Camera is ready to go to work for you

EASY MAINTENANCE:
- Rugged, high-impact dome and housing reduce risk of tampering
- Install, then forget about it

VERSATILE & ATTRACTIVE:
- Fully weather sealed — with user selectable backlight compensation as standard, the SWC20 can be used in all conditions
- Wall or ceiling mount
- Tamper resistant screws for added security
- Installs in less than 15 minutes

For more information on our mobile products, contact the Silent Witness Mobile Division at 1-800-877-2407.
“Taxi and livery drivers are 60 times more likely than other workers to suffer a fatality while on the job. Taxi and livery drivers also suffer the highest rates of non-fatal assault, next only to police and private security guards” (National Institute for Occupational Safety and Health, 1998).

We are committed to improving the safety of taxi, livery, transit, and transportation personnel. The FareView Mobile Surveillance System is designed to deter would-be culprits and identify offenders.

INTERCEPTION AND IDENTIFICATION:
FareView is the most advanced digital mobile surveillance system for the taxi industry. The moment a fare gets into your vehicle, FareViewidity begins to work recording events. The images are time and date stamped along with vehicle identification number and stored securely in the recorder unit installed elsewhere in the vehicle. In the event of unlawful activity the images can be accessed using our Instruction Software and forwarded to law enforcement agencies for perpetrator identification and as a detailed record of the events. FareView records day and night. Due to the built-in infrared LEDs, FareView functions even in total darkness.

ATTRACTIVE AND COMPACT:
FareView cameras are elegantly styled and ultimately durable. FareView meets the demands of almost any mobile or fixed application by blending advanced digital recording technology with attractive styling.

GREATER IMAGE STORAGE FOR MAXIMUM PEACE OF MIND:
FareView is the only mobile surveillance system that offers you up to 2400 images as a standard product. Return Monitor memory upgrade allows for expansion to 4800 image capacity. No other system offers such reliability. Image copies and rates of installation images are stored even when a loss of power, and no battery backup is necessary. All images recorded by FareView are maintained in CompactFlash memory that stores images for years, even after the vehicle power has been switched off.

FULL FEATURE SURVEILLANCE MEANS GREAT VALUE:
FareView digital mobile surveillance technology is geared to suit the demands of cost conscious operators and companies. FareView is a full feature system at a competitive price.

YOU ARE ON CAMERA:
FareView helps to increase safety for mobile operators — like cab drivers, livery operators, transit, rail and field service personnel — through surveillance and digital recording of events. Warning stickers posted where FareView is in operation will provide attention to would-be culprits by committing an offense when you know you are on camera. Offenders can be quickly identified through detailed digital images.

CAMERA UNIT:
  - Dimensions: 1.36" x 2.65" x 3.50" (34 mm x 67 mm x 90 mm)
  - Infrared wide-angle illumination for operation at night
  - Lens: 3.7mm Infrared Optimized; Optional 2.9 mm wide angle

CONTROLLER BOARD UNIT:
  - Two camera inputs
  - Automatic image recording loop
  - Driver activated event recording areas. Up to 9 (write protected)
  - Secure time & date stamp, including vehicle identification and “Chain of Evidence” electronic watermark and recorder unit identification
  - Dimensions: 6.75" x 3.98" x 0.50" (171 mm x 101 mm x 13 mm)
  - Removable image storage media for backup and archiving
  - Removable image storage 32MB compactFlash memory non-volatile
  - Optional set 64 & 128MB
  - Flash life minimum: 180 Million Image capture capacity
CABLE GUIDELINES
Power supply cable maximum length (feet/meters)

<table>
<thead>
<tr>
<th>Wire</th>
<th>24 AWG</th>
<th>22 AWG</th>
<th>18 AWG</th>
<th>16 AWG</th>
<th>12 AWG</th>
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</tr>
</thead>
<tbody>
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<td>15 VDC</td>
<td>50/55</td>
<td>55/60</td>
<td>60/66</td>
<td>70/77</td>
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<td>130/150</td>
<td>160/180</td>
</tr>
<tr>
<td>9 VDC</td>
<td>120/130</td>
<td>130/140</td>
<td>140/150</td>
<td>150/160</td>
<td>160/170</td>
<td>170/180</td>
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</tr>
</tbody>
</table>

Note: Calculations are based on an unregulated linear power supply which would be the worst case. Using a regulated or switching power supply can increase the cable distance. Silent Witness recommends using a CSA Certified UL Listed Class 2 power supply to ensure compliance with electrical safety standards.

UF cable maximum length (feet/meters)

<table>
<thead>
<tr>
<th>Wire</th>
<th>24 AWG</th>
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VOLTAGE & WIRING

What is a regulated power supply?
A regulated power supply will produce the rated voltage at the output regardless of the load connected to it, provided you do not exceed the power rating of the supply. The voltage will start to drop once the capacity of the power supply has been reached.

How do I identify which wire on the power supply is positive?
The positive wire is identified with a white stripe. If there is no stripe, there will be a ridge running the length of the positive wire.

How far can the camera be from the power supply?
This depends on the power supply and camera. You can determine the distance by reading through the installation guides delivered with our camera. You may also download the PDF files from one of our product pages on the website or view our cable guidelines (refer to left).

VOLTAGE CONVERSIONS

Refer to the following information to determine power source requirements:

<table>
<thead>
<tr>
<th>Watts (VA)</th>
<th>Volts</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2.5W</td>
<td>15 VDC</td>
<td>1.67A</td>
</tr>
<tr>
<td>2.5W</td>
<td>24 VAC</td>
<td>7.0A</td>
</tr>
<tr>
<td>4.5W</td>
<td>15 VDC</td>
<td>0.37A</td>
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<tr>
<td>4.5W</td>
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Note: Voltages and amps are approximations and may vary with different power supplies.

INSIDE SALES

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<tr>
<td>2.5W</td>
<td>24 VAC</td>
<td>7.0A</td>
</tr>
<tr>
<td>4.5W</td>
<td>15 VDC</td>
<td>0.37A</td>
</tr>
<tr>
<td>4.5W</td>
<td>24 VAC</td>
<td>0.19A</td>
</tr>
</tbody>
</table>

Note: Voltages and amps are approximations and may vary with different power supplies.