

## Discreet Cameras

### CCTV CAMERA WITH WORKING PIR MOTION DETECTOR

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Camera in WORKING PIR housing • Built-in electronic shutter • NO/NC trigger
  - Regulated 12V DC power supply (UL & CSA listed) & swivel mount included
  - 2"L x 2.75"W x 4.75"H • 9 oz.

B/W version **VL-272PIR**

Color version **VL-572PIR**



### CCTV CAMERA IN NON-WORKING PIR HOUSING

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format • 3.6mm pinhole lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm pinhole lens
- Built-in electronic shutter • Regulated 12V DC power supply (UL & CSA listed) included
  - Swivel mount included • 2"L x 2.75"W x 4.75"H • 9 oz.

B/W version **VL-265PIR**

Color version **VL-565PIR**



### COLOR OR B/W CEILING MOUNT CAMERA VIEWS SIDWAYS OR STRAIGHT DOWN

- B/W Version** 420 line resolution • 0.3 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Camera views from the side of housing at a 45° angle, or straight down
  - Built-in electronic iris • Regulated 12V DC power supply (UL & CSA listed) included
  - 1.75"L x 3.4"Dial • 2 oz.

B/W version **VL-262SD**

Color version **VL-562SD**



### IN-WALL CAMERA

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/3" CCD format • 3.6mm lens
- Fits into a single gang electrical box (included • Brushed stainless steel face plate
  - Video output: BNC • 2.75"L x 2.75"W x 4.25"H

Color version **CVC-675**

B/W version **CVC-75**



### DOOR MOUNT CAMERA

- 420 line resolution • 1.0 lux • 1/3" CCD format • 2.5mm lens
- For new installations or to replace existing peepholes • 110 ° angle of coverage
- Fits doors from 1 1/4" to 2" in depth • Weatherproof
- Regulated 12V DC power supply (UL & CSA listed) included • 2.75" L
- Shaft 1 1/8" Diam. • Viewing end 1 5/8" Diam



Color version **CVC-812PC**

### CLOCK CAMERA

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 350 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Battery powered quartz clock • Built-in electronic shutter • Video output: BNC
  - Regulated 12V DC power supply (UL & CSA listed) included • 1.5"L x 11"W x 11"H • 2.5 lbs.

B/W version **CVC-285RC**

Color version **CVC-585RC**

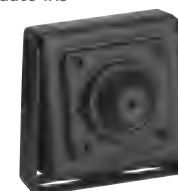


## Board Cameras

### MINIATURE HIGH RESOLUTION B/W OR COLOR PINHOLE CAMERA

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format

- Built-in 3.6mm lens with built-in electronic auto iris
- Electronic shutter system
- Cable outputs: Video BNC - DC power jack
- Power supply required (not included) see PSW-2 (B/W) and PSW-5 (Color)
- 0.75"L x 1"W x 1.25"H



B/W version **CVC-57PH/HR**  
 Color version **CVC-770PH**

### BOARD CAMERA IN ALUMINUM HOUSING

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • Built-in 3.6mm lens  
**Color Version** 420 line resolution • .92 lux • 1/3" CCD format • Built-in 3.6mm lens

- Cable outputs: Video RCA female/DC power jack
- Regulated 12V DC power supply (UL & CSA listed) included
- 1.5"L x 2"W x 3"H



B/W version **CVC-44BC2**

Color version **CVC-544BC2**

### ALUMINUM CAMERA HOUSING FOR COLOR BOARD CAMERA CVC-521BC

- Pivotal bracket included
- 1.75"L 2"W x 2"H



**BCC-20**

### CORNER MOUNT ALUMINUM CAMERA HOUSING FOR COLOR BOARD CAMERA

- Housing for a mini CCTV board camera
- 5"L x 3.25"W x 4.25"H



corner mount **BCC-CM**  
 Also available for flat wall mounting **BCC-WM**

### COMPACT PINHOLE COLOR BOARD CAMERA

- 420 line resolution • .92 lux
- 1/4" CCD format
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female - DC power jack
- Requires 12V DC power supply see PSW-2
- 1.625"L x 1.625"W x 1.5"H



Pinhole version **CVC-521PH**

### COMPACT PINHOLE B/W BOARD CAMERA

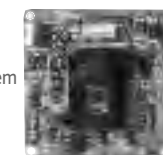
- 420 line resolution
- 0.5 lux
- 1/3" CCD camera
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female-DC power jack
- Requires 12V DC power supply see PSW-2
- 0.50"L x 1.75"W x 1.75"H



**CVC-50PH**

### COMPACT COLOR BOARD CAMERA

- 420 line resolution • .92 lux
- 1/4" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Outputs: Video RCA female-DC power jack
- Regulated 12V DC power supply (UL listed) included
- 1.625"L x 1.625"W x 1.5"H



**CVC-521BC**

### B/W MINI BOARD CAMERA

- 420 line resolution
- 0.02 lux
- 1/3" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Cable outputs: Video RCA female/DC power jack
- Power supply required (not included) see PSW-2
- 1"L x 1.75"W x 1.5"H



**CVC-50BC**

**LO** B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability.



## Intensifier Series Bullet Cameras



- Gray housing**  
**HT-INTB8** (2.8-12mm lens)  
**HT-INTB9** (5-50mm lens)  
**HT-INTB10** (9-22mm lens)
- White housing**  
**HT-INTB8/W** (2.8-12mm lens)  
**HT-INTB9/W** (5-50mm lens)  
**HT-INTB10/W** (9-22mm lens)

### Features

#### See In The Dark Without IR LEDs

- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- 560 lines of resolution
- Minimum illumination 0.002 lux (Intensifier @ 128x)
- Dual voltage 12V DC & 24V AC operation
- Full OSD operation
- External controls for zoom and focus
- SLC - Speco Light Compensation
- S/N Ratio more than 50dB (weight on)
- Weatherproof operation, IP-67
- EZ mount system simplifies installation
- 5 year warranty

### Specifications

Image Pick-Up Device	1/3" Sony Super-HAD* CCD - 410K
Resolution	560 TV line
Minimum Illumination	0.002 lux - Intensifier @ 128X
S/N Ratio	More than 50dB (weight on)
White Balance	ATW/AWC/MANUAL (1800K - 10,500K)
Video Output	Composite video 1.0 Vp-p into 75 Ohm + test connection
Electronic Shutter	Auto/Manual (1/60 - 1/120,000 seconds)
OSD	Built-in - controlled by internal buttons
SLC (Speco Light Compensation)	Low, middle, High, Off, Selectable
Auto Gain	Low, middle, High, Off, Selectable
Reduce Noise	Low, middle, High, Off, Selectable
Day & Night (Color)	On / Auto Selectable
Sharpness	On / Off (Level Adjustable)
Privacy	On / Off (4 Programmable Zones)
Power Supply	24 Volts AC, 12 Volts DC - Dual Voltage
Power Consumption	210mA
Lens	DC Auto Iris Varifocal Lens (2.8-12mm, 5-50mm or 9-22mm)
Total Pixels	811(H) x 508(V)
Effective Pixels	768(H) x 494(V)
Scanning Frequency	15.734kHz(H) / 59.94Hz(V)
Scanning System	2:1 Interlace
Synchronization	Internal / Line lock in 24V AC
Operating Temperature	-14°F to 122°F - RH 95% Max.
Storage Temperature	-40°F to 140°F - RH 95% Max.
TV System	NTSC
Dimensions	3.94" W x 4.92" H x 8.19" L
Weight	3 lb.

\*Super-HAD is a trademark of The Sony Corporation



## Intensifier Series Dome Cameras



- Gray housing**  
**HT-INTD8** (2.8-12mm lens)  
**HT-INTD9** (5-50mm lens)  
**HT-INTD10** (9-22mm lens)
- White housing**  
**HT-INTD8/W** (2.8-12mm lens)  
**HT-INTD9/W** (5-50mm lens)  
**HT-INTD10/W** (9-22mm lens)

See In The Dark Without IR LEDs

### Features

- Weatherproof operation, IP-67
- Tamper resistant
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- 560 lines of resolution
- Minimum illumination 0.002 lux (Intensifier @ 128x)
- Dual voltage 12VDC & 24VAC operation
- Full OSD operation
- External controls for zoom and focus
- SLC - Speco Light Compensation
- S/N Ratio more than 50dB (weight on)
- EZ mount system simplifies installation
- Wall or ceiling mount
- 5 year warranty

### Specifications

Image Pick-Up Device	1/3" Sony Super-HAD* CCD - 410K
Resolution	560 TV lines
Minimum Illumination	0.002 lux - Intensifier @ 128X
S/N Ratio	More than 50dB (weight on)
White Balance	ATW/AWC/MANUAL (1800K - 10,500K)
Video Output	Composite video 1.0 Vp-p into 75 Ohm + test connection
Electronic Shutter	Auto/Manual (1/60 - 1/120,000 seconds)
OSD	Built-in - controlled by internal buttons
SLC (Speco Light Compensation)	Low, middle, High, Off, Selectable
Auto Gain	Low, middle, High, Off, Selectable
Reduce Noise	Low, middle, High, Off, Selectable
Day & Night (Color)	On / Auto Selectable
Sharpness	On / Off (Level Adjustable)
Privacy	On / Off (4 Programmable Zones)
Power Supply	24 Volts AC, 12 Volts DC - Dual Voltage
Power Consumption	210mA
Lens	DC Auto Iris Varifocal Lens (2.8-12mm, 5-50mm or 9-22mm)
Total Pixels	811(H) x 508(V)
Effective Pixels	768(H) x 494(V)
Scanning Frequency	15.734kHz(H) / 59.94Hz(V)
Scanning System	2:1 Interlace
Synchronization	Internal / Line lock in 24V AC
Operating Temperature	-14°F to 122°F - RH 95% Max.
Storage Temperature	-40°F to 140°F - RH 95% Max.
TV System	NTSC
Dimensions	5.5" W x 4.4" H x 5.5" D
Weight	3 lb.

\*Super-HAD is a trademark of The Sony Corporation



## Waterproof & Weatherproof Bullet Cameras

### COLOR DAY/NIGHT WATERPROOF CAMERA FOR MARINE USE

- 420 line resolution • 0.1 lux (LED off), 0 lux (LED on)
- 12 LEDs controlled by CDS sensor, 45' range\*
- 1/4" Color CCD
- 2.9mm lens for wide angle coverage
- Built-in electronic iris
- Max. operating depth: 90 ft.
- Brass housing construction
- Can withstand full immersion in water and stand up to any type of weather
- 10' of power/video cable
- CVC-672MR-Reverse view for use on the back of a boat
- White Housing • Warranty 5 years



Reverse Image **CVC-627M**  
**CVC-627MR**

### WEATHERPROOF COLOR BULLET CAMERA WITH 60 INFRARED LEDS

- 420 line resolution
- 0 lux (IR illuminator on) 1.0 lux (IR illuminator off)
- Switches to B/W in IR mode • 60' IR Range\*\*
- 1/4" color CCD • 3.6mm lens
- Built-in fan operates when LEDs are active
- Auto white balance • Auto back light compensation
- Internal synchronization
- Regulated 12V DC power supply (UL & CSA listed) included
- 4.7"L x 2.8"W x 2.8"H
- Power consumption 450 MA
- Warranty 5 years



\*\*Depending on scene reflection

**CVC-960IR**

## Waterproof Bullet Cameras

### COLOR DAY/NIGHT WATERPROOF CAMERA FOR MARINE USE

- 420 line resolution • 0.1 lux (LED off), 0 lux (LED on)
- 12 LEDs controlled by CDS sensor, 45' range\* • 1/3" Color CCD
- 3.6mm lens for wide angle coverage • Built-in electronic iris
- Max. operating depth: 90 ft. • Brass housing construction
- Can withstand full immersion in water and stand up to any type of weather
- 10' of power/video cable • CVC-678MR-Reverse view for use on the back of a boat
- White Housing • Warranty 5 years



Cable Through Mount **CVC-628M**  
Reverse Image **CVC-628MR**

### WATERPROOF B/W CAMERA 8 INFRARED LEDS & 120FT. CABLE

- 420 line resolution • 0 lux (when IR LEDs are active)
- 8 IR LEDs • 1/3" B/W CCD camera • 3.6mm fixed focus lens
- CDS sensors turn IR LEDs on/off • Built-in electronic iris
- Max. operating depth: 90 ft. • Brass housing construction
- Cable, mounting bracket & regulated 12V DC power supply included (UL & CSA listed)
- 2"L x 1.5"W x 1.5"H • 7.4 oz.
- Warranty 5 years

*Nitrogen filled to protect internal components*



3 ft. Cable & White housing **CVC-320WP/W** 60 ft. cable & Black housing **CVC-320WP**

### WATERPROOF B/W CAMERA 10 INFRARED LEDS & 120FT. CABLE

- 420 line resolution • 0 lux (when IR LEDs are active) • 10 IR LEDs • 1/3" B/W CCD camera
- 3.6mm fixed focus lens • CDS sensors turn IR LEDs on/off • Built-in electronic iris
- Max. operating depth: 120 ft. • Brass housing, black finish
- 120' of cable, mounting bracket & regulated 12V DC power supply included (UL & CSA listed)
- 2"L x 1.5"W x 1.5"H • 7.4 oz.
- Warranty 5 years



10 IR LEDs & 120 ft. cable **CVC-321WP**

### WATERPROOF COLOR CAMERA WITH 60 FT. CABLE

- 350 line resolution • 1.0 lux sensitivity
- 1/4" color CCD camera • 3.6mm fixed focus lens
- Built-in electronic iris • Max. operating depth: 60 ft
- 60' of cable, mounting bracket & regulated 12V DC power supply (UL & CSA listed) included
- Brass housing painted black
- 2.5"L x 1.5"W x 3.5"H • 9.8 oz.
- Warranty 5 years



**CVC-620WP**

### WATERPROOF COLOR CAMERA w/ ULTRA WIDE ANGLE LENS

- **170° Field of view - Ultra wide angle**
- 380 line resolution • 1 lux • 1/3" CCD format
- 2.2mm lens
- For complete coverage of elevators, vestibules & other small areas
- Reg. 12V DC power supply included (UL & CSA listed)
- 3.3"L x 1.5"W • 6.5 oz.
- Warranty 5 years



**CVC-638/170**

## High Resolution Motorized Color Dome Cameras with Varifocal Lens & Motorized Zoom Lens Options



**HT-650PTDZ** (4-9mm varifocal lens with 3X Digital Zoom)  
**HT-650PT10X** (3.8-38mm 10X Motorized Optical Zoom with 10X Digital Zoom)

### Features

- 540 lines resolution
- Motorized Pan & Tilt, Remote Controlled
- 3X Digital Zoom (HT-650PTDZ) or 10X Optical Zoom (HT-650PT10X)
- 4-9mm auto iris varifocal lens (HT-650PTDZ) or 3.8-38mm motorized zoom lens (HT-650PT10X)
- RS-485 communication
- 64 pre-set positions
- Pans up to 93 degrees per second
- Adjustable speeds
- Sequential, Auto & Random pan modes
- Vandalproof, weatherproof
- Ready for ceiling mounting
- Compatible with 650WMT and 650CMT optional mounting brackets & 650JBMT junction box
- Control from our RC-650 remote control or many popular DVRs
- Includes 12 Volt DC power supply



## Vandalproof Standard Resolution Weatherproof Color Dome Camera with IR LEDs

**VL-650IR/S** (silver housing, fixed lens)  
**VL-650IR/W** (white housing, fixed lens)  
**VL-650IRVF/S** (silver housing, varifocal lens)  
**VL-650IRVF/W** (white housing, varifocal lens)



### Features

- Internal IR LEDs with anti-reflective technology
- 22M IR range using 22 IR LEDs
- Tamperproof construction
- IP67 rated for extreme weather applications
- Optional wall, ceiling & junction box adapters are available
- Available in white & silver housings
- Multi-function dip switches for precise camera adjustment
- 5 year warranty

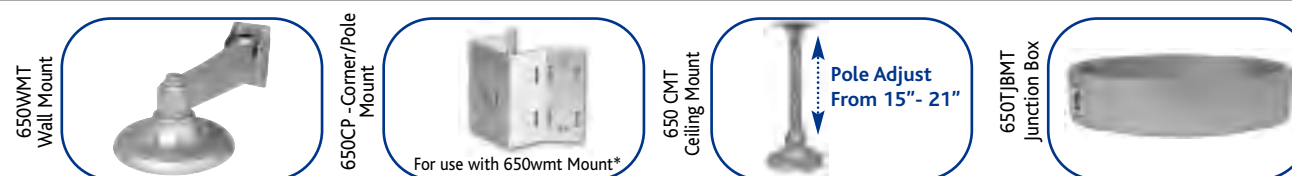
### Specifications

CCD	.1/3" SONY Super-HAD* CCD
Resolution	.420 Lines
Lens	VL-650IR = 3.6mm board lens VL-650IRVF 2.8-11mm F1.4 varifocal auto iris lens
Min. Illumination	.0 Lux (22M range) with LED on, 0.5 Lux with LED off
Number of Pixels	.510 H x 492 V
Cell size	.9.6µm H x 7.5µm V
TV Type	.NTSC
Sync Type	.Internal
Scanning System	.2:1 Interlace
Video Output	.1.0 Vp-p (sync negative) into 75 ohms
Video Test Output	.Cable included
Gamma Characteristic	.γ=0.45 type.
S/N Ratio	.48dB or more (AGC off)
Gain Control	.Automatic
Electronic Shutter	.1/60 Sec to 1/100,000 Sec
AG	.ON/OFF
BLC	.ON/OFF
Flickerless	.ON/OFF
Mirror	.ON/OFF
Test Illuminance Area	.Average test illuminance by front view
Power Supply	.Regulated 12V DC power supply included
Consumption Current	.Max. 360mA
Reverse Polarity Protection	.YES
Operating Temperature	.-20°F to 120°F
Dimensions	.6" Dial. x 3.75"H

**NOW WITH  
MORE  
POWERFUL  
LEDs**



### Available 650 Series Mounting Accessories, Choose from Silver or White



\* Straps required when used as a pole mount. See pg. 65

## Vandalproof High Resolution

### Weatherproof Color Dome Camera with IR LEDs

HT-650IRVFHQ/S (silver)  
HT-650IRVFHQ/W (white)

#### Intensifier Versions

HT-INT650/S (silver)  
HT-INT650/W (white)

#### Wide Dynamic Range Versions

WDR-650IRVFHQ/S (silver)  
WDR-650IRVFHQ/W (white)

540 Lines  
of High  
Resolution



#### Features

- 540 lines resolution
- Internal IR LEDs with anti-reflective technology
- 22M IR range using 22 IR LEDs
- Tamperproof construction
- IP67 rated for extreme weather applications
- Optional wall, ceiling & junction box adapters are available
- Available in white & silver housings
- Multi-function dip switches for precise camera adjustment
- 5 year warranty

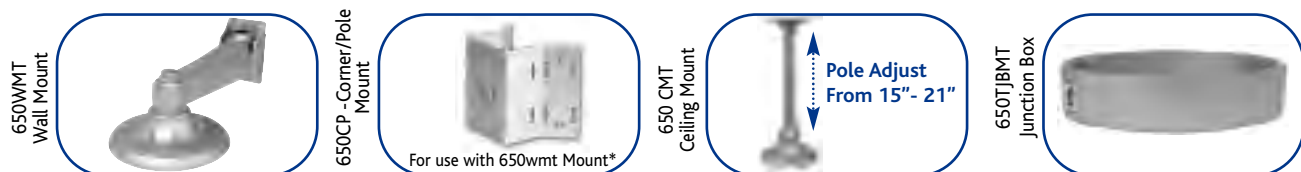
#### Specifications

CCD	1/3" SONY HQ1* + DSP
Resolution	540 Lines
Lens	3-12mm F1.4 varifocal auto iris lens
Number of Pixels	768 H x 494 V
Cell size	9.6µm H x 7.5µm V
TV Type	NTSC
Sync Type	Internal
Scanning System	2:1 Interlace
Video Output	1.0 Vp-p (sync negative) into 75 ohms
Video Test Output	Cable included
Gamma Characteristic	γ=0.45 type.
Min. Illumination	0 Lux (22M range) with LED on, 0.5 Lux with LED off
S/N Ratio	48dB or more (AGC off)
Gain Control	Automatic
Electronic Shutter	1/60 Sec to 1/100,000 Sec
AGC ON/OFF	
BLC	ON/OFF
Flickerless	ON/OFF
Day/Night Filter Exchange	AUTO
Power Supply	Regulated 12V DC power supply included
Consumption Current	Max. 360mA
Reverse Polarity Protection	YES
Operating Temperature	-20°F to 120°F
Dimensions	6" Dial. x 3.75"H

**NOW WITH  
MORE  
POWERFUL  
LEDs**



#### Available 650 Series Mounting Accessories, Choose from Silver or White



## High or Standard Resolution Color Indoor Dome Camera

### with Built-in IR LEDs & Anti-Reflection Technology



#### 420 Line Standard Resolution Models

VL-648IR  
VL-648IR/W (white)

3.6mm lens  
(optional lenses available)

VL-648IRVF  
VL-648IRVF/W (white)  
Comes with 2.8-11mm auto iris varifocal lens

#### 540 Line High Resolution Models

CVC-648IRHQ  
CVC-648IRHQ/W (white)

3.6mm lens

CVC-648IRVFHQ  
CVC-648IRVFHQ/W (white)  
2.8-11mm auto iris varifocal lens

#### Features

The VL-648IR is a color day/night camera with special shielding to eliminate IR reflections. It is used for indoor ceiling applications to cover the full spectrum of bright light to no light surveillance. This dome camera can be wall or ceiling mounted by using the matching bracket that is included in the box.

#### Specifications

Resolution	420 lines standard or 540 lines high resolution
Image Device	1/3" Sony Super HAD* color CCD or 1/3" Sony HQ-1* color CCD w/ DSP
Minimum Illumination	0 lux with IR on, 0.5 lux with IR off
Electronic Shutter	Auto 1/60-1/100,000 sec.
Lens	3.6mm lens (optional lenses available) Varifocal version only - 2.8-11mm F1.4 auto iris <b>Now with more powerful LEDs!</b>
Synchronization	Internal 2:1
Scanning System	EIA standard 525 line 60 fields/second
S/N Ratio	Greater than 48 db
Back Light Compensation	Auto
AGC	Auto
Gamma Characteristic	0.45 type.
Video Output	1.0 Vp-p, 75 ohm
Operating Temperature	14°F to 120°F
LED IR Wave Length	850 NM
Number of LED	22 IR LEDs
Effective IR range	70' (depending on scene reflection)
Power Supply	12V DC regulated - included UL approved
Dimension	5"Diameter x 3"H
Weight	8 oz.
Case	High impact ABS
Warranty	5 years

**NOW WITH  
MORE  
POWERFUL  
LEDs**



\*Super HAD, HQ-1 are trademarks of the Sony Corporation

#### Package Includes:

VL-648IR or VL-648IRVF Camera • Wall Mount Adapter • Power Supply • Instructions • Warranty card

## Vandal Resistant Wall/Ceiling Mount

### Weatherproof Color Dome Camera with Auto Iris Varifocal Lens



#### Standard Resolution Models

**VL-6WMTDV**  
2.8-11mm Auto Iris Lens

**VL-6WMTDV/9-22**  
9-22mm Auto Iris Lens

#### High Resolution Models

**HT-8WMTDV**  
2.8-11mm Auto Iris Lens

**HT-8WMTDV/9-22**  
9-22mm Auto Iris Lens

Now with large varifocal range - 1 camera does the work of 3!

Features	Benefits
Wall or ceiling mounting through the use of a unique internal 3-way camera bracket	Look straight down a wall with no loss of coverage
Safe Mount System	Keeps tools and hardware away from camera electronics
Auto Iris Varifocal Lens	Camera operates in a wide range of lighting conditions
Supplied with a Clear "Lined" Dome	Conceals camera position without a loss of light
Conduit Compatible	Side and rear cable entry
Vandal Resistant	Withstands blows from a 10 lb. sledge hammer
Tamper Resistant	The cover is secured by 6 tamper resistant screws

#### Specifications

	VL-6WMTDV	HT-8WMTDV
Horizontal Resolution	420 TV lines	580 lines
Image Device	1/3" Interline transfer type CCD	Sony HQ-1 +DSP
Min. Object Illumination	1.0 lux	0.5 lux
Effective Picture Element	270K 512(H) x 492(V)	410K
Backlight Compensation	Active	Active
White Balance	Auto	Auto
Electronic Shutter	1/60-1/100,000 seconds	1/60-1/100,000 seconds
AGC	Active-Auto	Active-Auto
Built In Lens	Auto iris varifocal lens 2.8-11mm Auto iris varifocal lens 9-22mm	Auto iris varifocal lens 2.8-11mm Auto iris varifocal lens 9-22mm
Video S/N Ratio	Greater than 48dB	Greater than 50dB
Weatherproof Standard	IP66	IP66
Mechanical construction	Aluminum composite/polycarbonate	Aluminum composite/polycarbonate
Operating Environment	-20°F to 120°F	-20°F to 120°F
Video Signal Output	1.0Vp-p/75 Ohms (BNC) NTSC	1.0Vp-p/75 Ohms (BNC) NTSC
Power Consumption	150mA	150mA
Power Supply	12V DC 500 mA regulated power supply (UL & CSA listing) included	12V DC 500 mA regulated power supply (UL & CSA listing) included
Weight	24 ounces	24 ounces

#### Package Includes:

- VL-6WMTDV or HT-8WMTDV camera
- Instructions • Mounting hardware
- Warranty • Power supply

#### Available Accessories:

6/8WMT Wall mount



## High Resolution Color Dome Camera



**CVC-6146HR** Black housing

**CVC-6146HR/W** White housing

High Resolution Color Dome Camera with 2.8-11mm Auto Iris Lens

#### Specifications

Resolution	550 lines
Image Device	1/3" Sony Super-HAD* CCD
Min. Object Illumination	0.3 lux sensitivity
Electronic Shutter	1/60-1/100,000 seconds
DIP Switches	BLC, FLK, AGC AND AES/AI
Built In Lens	2.8-11mm F1.4 auto iris lens
Video S/N Ratio	Greater than 48dB
Gamma	0.45
Mechanical Construction	Polycarbonate housing with lined dome cover
Video Signal Output	Composite Video, 1 Vp-p into 75 ohms, test connection
Power Consumption	300mA (DC) / 4W (AC)
Power Supply	Dual voltage operation: 12V DC & 24V AC
Scanning System	525 lines interlaced
Synchronization	Internal / line locked in 24V AC mode
Operating Environment	14°F to 122°F
Dimensions	5.5" Dia. x 3.5" H
Weight	12 oz.
Accessories	Wall/ceiling mountable with 3-axis mount & template included

## Indoor Color Dome Cameras

### INDOOR TAMPERPROOF COLOR DOME CAMERA FOR WALL OR CEILING MOUNTING

Can withstand hits from a 10lb. sledgehammer!



Includes a unique internal 3-way gimble, making the unit perfect for both wall and ceiling mounting. The VL-64TP provides a crisp picture under a wide variety of lighting conditions.

Please provide your own regulated 12-volt DC power supply or use our PSW-5.

**VL-64TP**  
VL-64TP/W white housing **NEW**

Resolution . . . . .420 lines  
Min. Illumination . . . . .1 lux  
Pick Up Device . . . . .1/4" image sensor interline transfer  
542 (H) x 492 (V)  
Lens . . . . .2.9mm  
S/N Ration . . . . .Better than 48dB  
Shutter Control . . . . .1/60 to 1/100,000 Sec  
Electronic Shutter . . . . .256 steps  
Sync. System . . . . .Internal sync.

Power Source . . . . .12V DC regulated supply recommended  
Consumption Current . . . . .200mA  
Housing . . . . .Metal & polycarbonate with lined dome  
Gamma Correction . . . . .0.45  
Operating Temperature . . . . .4°F-131°F / 30 to 90% RH  
Video Out . . . . .Composite 1.0 VP.P / 75 OHM  
Weight . . . . .1lb.  
Dimensions . . . . .3.6" Dia. x 3" H

### ECONOMY COLOR AND B/W DOME CAMERA WITH WHITE OR BLACK HOUSING

**B/W Version** 420 line resolution • 0.2 lux • 3.6mm lens • 1/3" B/W CCD

**Color Version** 420 line resolution • 1.0 lux • 1/4" format • 2.9mm lens

- Can be rotated 360° • Tilt angle +/- 90° • Video output - BNC
- Requires regulated 12V DC power supply (See PSW-5 in power supply section)
- 4" Dial. x 2.5"H



B/W version with black housing **VL-183**  
2.9mm Color version with black housing **VL-644DC**

B/W version with white housing **VL-183W**  
2.9mm Color version with white housing **VL-644DC/W**

## Vandal Resistant High Resolution Wall/Ceiling Mount Color Dome Cameras

- Wall or ceiling mounting through the use of a unique internal 3-way camera bracket
- Flush or surface mounting using the supplied surface mount adapter box
- Supplied with a tinted and clear "lined" dome to accommodate a wide range of lighting conditions
- Conduit compatible
- Safety strap holds dome cover in place while making adjustments
- Fits over a standard 2-gang box



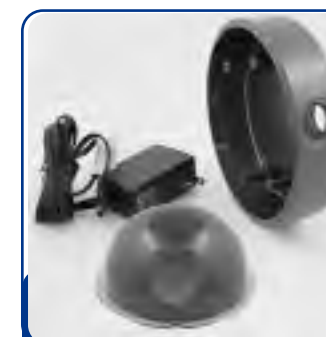
Weatherproof

**CVC-7WMTDV**



### Specifications

Horiz. Resolution . . . . .480 TV Lines  
Image Device . . . . .1/3" Sony ExView\*\*  
Min. Object Illumination . . . . .0.03 lux  
Effective Picture Element . . . . .470 K  
Backlight Comp. . . . .Active - Turbo  
Elec. Shutter . . . . .1/60 - 1/100,000 second  
Built-In Lens . . . . .DC auto iris varifocal lens 4-9mm  
Video S/N Ratio . . . . .Greater than 50 dB  
Weatherproof Standard . . . . .IP67  
Operating Environment . . . . .-20° F to 122° F  
TV Format . . . . .NTSC, color  
Video Signal Output . . . . .1.0Vp-p/75 Ohm (BNC)  
Power Consumption . . . . .200mA  
Power Requirements . . . . .24V AC @ 20 VA  
or 12V DC regulated power supply (UL & CSA listing) included  
Dimensions . . . . .5-3/4" Dial. x 4" H  
Weight . . . . .3.3 lbs.



### Includes:

- Extra Dome Cover
- Power Supply
- Junction Box

\*\*ExView is a trademark of the Sony Corporation



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.



# LeDome Cameras



**No More Reflections from the Inside of the Dome!**

**The Industry's Most Advanced Dome Camera!**

also available in white - LEDome/W

**LEDome**

## Features

- Fully adjustable external IR LEDs eliminate internal reflections • Weatherproof
- ExView\* technology yields 480 lines of resolution @ .03 Lux (0 Lux when IR LEDs are active)
- True Day/Night function using mechanical IR Cut Filter Technology
- User adjustable Lux settings determine at what light level the camera switches from color to B/W
- Has both normal coaxial video and UTP balun outputs. LEDome works with coaxial or CAT-5E type cables
- Wall & Ceiling mountable – Fully adjustable in all directions • Front and rear alarm tamper switches
- Dual Voltage – Line locked and V-Phase in the 24 volt AC mode • 4 to 9 mm auto iris varifocal lens with mechanical IR filter • Built-in heaters extend the operating range and eliminate condensation
- Video test terminal for local adjustment of the camera without opening the case
- Strap holds cover in place while making adjustments

## Specifications

Resolution	.480 Lines
Image Sensor	1/3" Sony ExView* CCD
TV System	.NTSC
Scanning System	.2:1 Interlaced
Sync System	.Line locked, adjustable V-phase in 24-Volt AC mode
Minimum Illumination	.0.03 Lux (IR off) 0.00 Lux (IR on)
CDS Sensor	.Photoconductive cells 10 lux resistance 5-10KΩ
S/N Ratio	.More than 50dB
Gamma Characteristic	.0.45
Video Output	.1.0 Volt p-p into 75 Ohm Composite and UTP (built-in balun)
Electronic Shutter	.1/60 – 1/100,000 sec
Power Supply	.24-Volts AC, 12-Volts DC
Power Consumption	.1 Amp
Lens	.DC auto iris varifocal lens (3mm-9mm) mechanical IR Filter
Operational Temperature	.-20°F to 122°F, RH 95% Max
Dimensions	.6.75" diameter x 5" high
Weight	.2 Lbs.

\*ExView is a trademark of Sony Corporation

# Designer Series Color or B/W Weatherproof Bullet Cameras with Sunshield



*Cable through the mount for extra security!*



**CVC-6705** black - varifocal  
**CVC-6705W** white - varifocal



**CVC-6700BR** bronze



**CVC-6700** black



**CVC-6700W** white

## Specifications

Resolution	.420 line	Video S/N Ratio	.Greater than 48 dB
Minimum Illumination	.1.0 lux	Housing	.Weatherproof, metal, removable sunshield
Image Device	.1/4" CCD image sensor	Power Consumption	.130 mA
Lens	.2.9mm	Power Supply	.Regulated 12V DC power supply (UL and CSA listed) included
Varifocal Model Lens	.4-9mm manually adjustable	Humidity	.Within 95% RH
Fixed Lens Options	.Sold separately and available upon request: 2.5, 6, 8, and 12mm	Operating Temperature	.-14°F to 122°F
Electronic Shutter	.1/60 - 1/100,000 seconds	Scanning Frequency	.15.75 kHz horizontal 60 Hz vertical
Number of Pixels	.512 horizontal x 492 vertical	Dimensions	.3.94"L x 1.54"W x 1.38"H 4.5"L x 2"W x 2"H (CVC-6705 only)
Output	.Video BNC, Power-DC jack	Weight	.6.1 oz., 11.2 oz. (CVC-6705 only)
Video Output	.1.0 Vp-p into 75 Ohms	Warranty	.5 years



**CVC-1705** black - varifocal



**CVC-1700** black



**CVC-1700W** white

## Specifications

Resolution	.420 line	Video S/N Ratio	.Greater than 48 dB
Minimum Illumination	.0.02 lux	Housing	.Weatherproof, metal, removable sunshield
Image Device	.1/3" B/W CCD image sensor	Power Consumption	.100 mA
Lens	.3.6mm	Power Supply	.Regulated 12V DC power supply (UL and CSA listed) included
Varifocal Model Lens	.4-9mm manually adjustable	Humidity	.Within 95% RH
Fixed Lens Options	.Sold separately and available upon request: 2.5, 6, 8, and 12mm	Operating Temperature	.-14°F to 122°F
Electronic Shutter	.1/60 - 1/100,000 seconds	Scanning Frequency	.15.75 kHz horizontal 60 Hz vertical
Number of Pixels	.512 horizontal x 492 vertical	Dimensions	.3.94"L x 1.54"W x 1.38"H 4.5"L x 2"W x 2"H (CVC-1705 only)
Output	.Video BNC, Power-DC jack	Weight	.5.8 oz., 11.2 oz. (CVC-1705 only)
Video Output	.1.0 Vp-p into 75 Ohms	Warranty	.5 years

Compatible with model BCP CORNER/POLE MOUNT ADAPTOR for bullet cameras. See pg 74 for details.



## Weatherproof Bullet Cameras

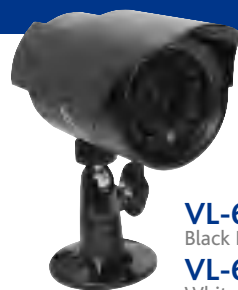
### ECONOMY COLOR WEATHERPROOF CCD BULLET CAMERA

- 420 line resolution • 1.0 lux • 1/4" color CCD camera
- 2.9mm lens with built-in electronic iris
- Electronic shutter system
- Mount & Regulated 12V DC power supply (UL & CSA listed) included
- Video output: BNC • 2.6"L x 1"W x 1"H • 10 oz.



CVC-635N

### ECONOMY COLOR BULLET CAMERA IN PLASTIC HOUSING WITH 16 IR LEDs



VL-62  
Black Housing  
VL-62/W  
White Housing



#### Extreme weatherproof design

- 420 line resolution • 0.92 lux (IR off)
- 0 lux (IR on) • 4mm lens
- S/N Ratio more than 48dB
- Internal sync. • Auto electronic shutter
- Regulated 12V DC power supply (UL & CSA listed), sunshield & mount included



### WEATHERPROOF COLOR DSP CAMERA WITH VARIFOCA LENS AND IR LEDs

- 420 line resolution • 0.92 lux (IR off) • 0 lux (IR on)
- 1/3" color CCD camera • 4-8mm varifocal lens
- Extreme weatherproof design is perfect for indoor or outdoor use
- 50' IR range\* for great pictures in low light conditions
- Color by day, B/W by night - always get the best possible picture
- Mounting bracket included for wall, ceiling or pedestal use
- S/N Ratio more than 48dB
- Internal sync. • Auto electronic shutter
- Regulated 12V DC power supply included

\* Depending on scene reflection



VL-66  
Black Housing  
VL-66/W  
White Housing

### WEATHERPROOF COLOR VARIFOCA L BULLET CAMERA

- Metal housing • 420 line resolution
- 0.92 lux (IR off)
- 0 lux (IR on)
- 4mm-9mm auto iris varifocal lens
- Dual Voltage: 12V DC / 24V AC
- IP-67 rated weatherproof design
- 12" power lead included
- 18 IR LEDs, with CDS control (distance up to 50')\*

- Automatic white balance
- Back light compensation
- Mounting bracket included for wall, ceiling or pedestal use
- S/N Ratio more than 50dB • Internal sync.
- Auto electronic shutter
- Removable and adjustable sunshield

\* Depending on scene reflection



VL-67  
Black Housing

NEW



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

## Bullet Cameras

### WEATHERPROOF COLOR CCD IR CAMERA

- 420 line resolution • 0.5 lux color/0 lux IR on
- 1/3" interline transfer CCD
- 14 IR LEDs up to 40' range
- Electronic shutter system
- 4.3mm lens
- Regulated 12V DC power supply required (Model: PSW-5)
- 2.2"Dial. x 3.2"L • 19 oz.
- Removable sunshield offers additional weather protection & blocks out sun glare
- Wall/Ceiling mount included
- Silver housing



VL-10

### WEATHERPROOF COLOR CCD IR CAMERA

- 420 line resolution • 0.5 lux color/0 lux IR on
- 1/3" interline transfer CCD
- 28 IR LEDs up to 60' range
- Electronic shutter system
- 4.3mm lens
- Regulated 12V DC power supply required (Model: PSW-5)
- 2.6"Dial. x 3.7"L • 16 oz.
- Removable sunshield offers additional weather protection & blocks out sun glare
- Wall/Ceiling mount included
- Silver housing



VL-11



### ECONOMY B/W WEATHERPROOF BULLET CAMERA WITH PROTECTIVE SUNSHIELD

- 420 line resolution • 0.02 lux • 1/3" CCD • Electronic shutter system • 3.6mm lens
- Regulated 12V DC power supply (UL & CSA listed), cable & mounting bracket included
- 2.4"L x 1.1"W x 1"H • 2.2 oz.
- Removable sunshield offers additional weather protection and blocks out sun glare

Black Housing VL-128RS

### ECONOMY B/W WEATHERPROOF BULLET CAMERA

- 420 line resolution • 0.02 lux • 1/3" B/W CCD
- 3.6mm lens • Electronic shutter system
- Regulated 12V DC power supply (UL & CSA listed), mounting bracket included
- 2"L x 1"W x 1"H • 2.2 oz.

Black Housing CVC-130R



### COLOR MINIATURE WEATHERPROOF CAMERA WITH REMOVABLE SUNSHIELD

- 420 line resolution
- 1.0 lux • 1/3" color CCD camera
- 3.6mm lens
- Electronic shutter system
- Mounting bracket
- Power supply required
- 1 Volt p-p composite into 75 Ohms
- .95" Diameter x 3.15" L • 3 oz.



VL-634

### COLOR CONICAL PINHOLE BULLET CAMERA

*Conical (pointed) pinhole lens. Easier to install behind walls and in dropped ceilings.*

- 420 line resolution
- 1.0 lux • 1/3" CCD format
- 4.3mm conical pinhole lens
- Black housing
- Regulated 12V DC power supply (UL & CSA listed) included
- Miniature mount included
- 2.3"L x 1"W x 1"H



Color version CVC-622PH



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

## Dome & Ball Cameras

### WEATHERPROOF FULLY ADJUSTABLE IR CAMERA

- 420 lines of resolution
- 6mm Lens (VL-12)
- 4mm Lens (VL-12/4)
- 1/3" interline transfer CCD
- 0.5 lux color (led off), 0 lux (led on)
- IP 66 weatherproof operation
- IR trigger 4 lux/8 lux IR on/off
- 40' IR Range (depending on scene reflection)
- Video S/N ratio greater than 48dB (AGC off)
- 12V DC ± power supply required (model PSW-5)



Wall/Ceiling Mounting Bracket Included



VL-12  
VL-12/4

### ULTRA HIGH RESOLUTION COLOR DOME CAMERA

- 550 line Color resolution • .5 lux • 1/3" format
- 3.6mm lens • Can be rotated 360°
- Tilt angle +/- 90° • Built-in electronic shutter
- Video output/BNC
- Regulated 12V DC power supply (UL & CSA listed) included
- 4" Dial. x 2.5"H



Ultra High Resolution



black housing CVC-646HR  
white housing CVC-646HR/W

### DOME CAMERA WITH 4-9mm VARIFOCAL LENS

B/W Version 420 line resolution • 0.02 lux • 1/3" format  
Color Version 420 line resolution • .92 lux • 1/4" format

- Can be rotated 360° • Built-in electronic shutter • Video output - BNC
- Color domes have built-in test connectors • Ceiling Mount
- Regulated 12V DC power supply (UL & CSA listed) included
- 4.4" Dial. x 3"H



B/W version CVC-1805DC Color version CVC-6405DC



B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

## Zoom & Traditional CCD Cameras

NEW

See pg 28 for details



IP-INTT5 Traditional Camera  
Uses C/CS Lenses, Intensifier  
IP-T5  
No Intensifier Feature

NEW

See pg 24 for details



HT-INTT5  
Accepts C & CS type lenses, Intensifier

NEW

See pg 34 for details



WDR-T6  
Accepts C & CS type lenses  
Dual Voltage, PIXIM

NEW

See pg 24 for details



VL-INTT5  
12 Volt operation only, Intensifier

### COLOR CAMERA WITH 268X ZOOM & OPTIONAL REMOTE CONTROL

- 470 line resolution • 0.1 lux sensitivity in night mode • 1/4" Super-HAD\*
- 22X Optical zoom, 12X Digital zoom • OSD Menu functions
- Control from rear of camera, by RS-232, RS-485 or RC-652 optional remote control
- Auto slow shutter speed in low light conditions • BLC, AGC • Auto iris

Day/Night Operation - IR cut filter is automatically removed at night.

\*Super-HAD is a trademark of the Sony corporation

Optional remote controller RC-652 CVC-652HZ



### HIGH RESOLUTION 12 VDC/24 VAC DUAL VOLTAGE COLOR CAMERA

- 580 line resolution • 0.50 lux • 1/3" color Sony HQ1\* camera
- ICR & mechanical IR cut filter (CVC-865DN/24) only
- Internal synchronization & line lock (24V AC mode)
- C or CS mount lenses • Requires power supply • Lens sold separately
- Accepts a video/DC auto iris lens • 4.6"L x 2.2"W x 2.2"H

\*HQ1 is a trademark of the Sony corporation



CVC-614C  
CVC-865DN/24

### 1/3" COLOR CCD CAMERA

- 420 line resolution • 0.5 lux • 1/3" interline transfer CCD
- Internal synchronization • C or CS mount lenses • S/N Ratio more than 48dB
- 12V DC regulated power supply required
- Accepts a video/DC auto iris lens/Manual iris/Fixed iris
- Lens sold separately • 4.3"L x 2.2"W x 2"H • 12 oz.



VL-611C

### DUAL VOLTAGE B/W CCD CAMERA WITH BUILT-IN ELECTRONIC IRIS

- 420 line resolution • Operates on both 12 VDC/24 VAC • 0.02 lux • 1/3" B/W CCD
- Internal synchronization • Built-in electronic shutter
- Supports both video and DC drive auto iris lenses
- Lens sold separately • Accommodates both C/CS type lenses
- Requires 12V DC or 24V AC power supply (not included) see power supply section • 5"L x 2"W x 2"H



CVC-190

## Counter Cameras

### Color, Adjustable Counter Camera with Varifocal Lens to Clearly Identify Facial Features - Wide Dynamic Range

#### Specifications

- Built-in IR LEDs illuminate a person's face and balances backlit scenes
- Camera is height adjustable within the tower base.
- The camera can be tilted within the housing to achieve all required angles
- The tower base is horizontally adjustable and locks into position using set screws
- 2.6 to 6.0mm auto iris Vari-focal lens allows you to "fine tune" your coverage
- Ultra high 480 lines of resolution • 16 LEDs with CDS
- 1/3" color Sony double speed CCD sensor • TV System: NTSC
- Day/Night operation with a mechanical IR cut filter
- Scanning System 2:1 Interlaced
- Sensitivity to 0 lux within a 10 foot range, 0.03 lux beyond 10 feet
- WDR (Wide Dynamic Range) technology minimizes back-lighting problems
- Cable can be routed through the bottom or rear of the tower
- Standard tower height is 24". Customized heights are available
- Customize the look of your tower with paint color or "slide-in" advertising panels
- Line Locked, Adjustable V – Phase
- S/N Ratio: More Than 50dB
- Gamma Characteristic: 0.45
- Video Output: 1 Volt p-p, 75 ohm
- Electronic Shutter: 1/60 – 1/100,000 sec.
- Dual voltage 24V AC/12V DC with line-lock button type
- Power Supply Dual Voltage ~ 24 Volts AC & 12 Volts DC
- Power Consumption: (24V AC) 5.5W
- Power consumption: (12V DC) 230mA type.
- Operating Temperature: 14° F ~ 122° F
- Dimensions: 24" H x 4.7" D
- Weight Approx. 4.5 lbs.



TC-25VF

### The Latest Innovation for Ideal Facial Viewing

#### Features:

The TC-25VF allows you to view a person's face by placing an unobtrusive camera at eye level. Pictures of the top of your customers head or hat are a thing of the past.

Our TC-25VF counter camera operates on 24V AC/12V DC power which allows for line lock and "drift free" color pictures. It offers double speed WDR technology and a 2.6 to 6.0mm auto iris Varifocal lens.

The base allows for easy horizontal angle adjustment and the camera location inside the housing is vertically adjustable. The cable can be routed through the base or rear for a more concealed and secure installation.



Facial ID Shot



Standard Camera Shot

Our color camera operates on 24V AC power which allows for line lock and "drift free" color pictures.

The base allows for easy horizontal angle adjustment and the camera location inside the housing can be tilted. The cable is located through the base for a more concealed and secure installation.

### Color Counter Camera with 2.9mm Lens, 24V AC Line Locked Operation and WDR (Wide Dynamic Range)

- WDR (Wide Dynamic Range) handles your toughest back light situations
- Stationary tower
- Fixed focal lens, for less demanding applications
- Ultra high 480 lines of resolution
- 1/3" color Sony double speed CCD sensor
- 0.03 lux low light sensitivity
- 2.9mm lens - optional lenses available
- Metal and lexan housing
- Power Consumption: 200mA
- Power supply: 24V AC @ 20VA required
- Standard dimensions 24"H X 2.75"D



TC-24/2.9

### Color Counter Camera with 6mm Lens and 24V AC Line Locked Operation

- Stationary tower
- Fixed focal lens, for less demanding applications
- Ultra high 480 lines of resolution
- 1/3" color Sony Super-HAD CCD sensor
- 0.03 lux low light sensitivity
- 6mm lens - optional lenses available
- Metal and lexan housing
- Power Consumption: 200mA
- Power supply: 24V AC @ 20VA required
- Standard dimensions 24"H X 2.75"D



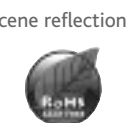
NEW

TC-23

## Infrared Illuminators/ Wireless Cameras

### INDOOR/OUTDOOR INFRARED LED ILLUMINATOR

- 66 powerful infrared LEDs • Range up to 50' in total darkness\*
- Compatible with any B/W or IR sensitive color CCD camera
- CDS sensor activates IR LEDs only as needed
- Universal mount and 12V DC regulated power supply included (UL/CSA listed)
- 500 mA
- Semi-covert operation for maximum distance (840 NM)
- Weather resistant to IP 67 standards
- Dimensions: 3" x 1"



IR-300

\*Depending on scene reflection

### WIRELESS COLOR WEATHERPROOF IR CAMERA

- 420 lines resolution • 1/4" CCD image sensor
- 6mm lens • 0 lux (with IR LED on)/1 lux (LED off)
- Transmission Frequency: ISM 2,400 MHz-2,483MHz
- Transmission Power: 10m
- Modulation Type: FM
- Bandwidth 18MHz
- Effective Range: 300 feet (depending on local conditions)
- Night Vision Range: 45 feet (depending on scene re)
- Regulated 12V DC power supply included - 1
- Dimensions: 2-1/2"(W) x
- Weight: 10 oz.



WC-2503

Wireless

### INDOOR/OUTDOOR INFRARED ILLUMINATORS

- Emits IR at 840nm • For any low-light application
- Illuminator is housed in heavy duty aluminum
- 40 ft. range & 30° horz/vert angle dispersion
- Mounting bracket • Power supplies not included
- 6.5"L x 3.5"W x 4.5"H • 3 lbs.



Available as 117V IR-200 or 24V AC IR-200/24

### WIRELESS CAMERA EQUIPMENT - 300' LINE OF SIGHT TRANSMISSION



VMW-2.5LCD

- 2.4Ghz mobile wireless monitor
- Runs on batteries or included power supply
- 2.5" LCD screen - 480 x 234
- 4 channels for multiple camera use
- Handles video and audio
- Fits in the palm of your hand



WT-2500

- 2.4Ghz mobile wireless transmitter
- Selectable to 4 channels
- Clips on to cameras BNC connector
- Includes power supply
- Power loops through the transmitter to power a 12V DC camera



WR-2501

- 2.4Ghz mobile wireless receiver
- Selectable to 4 channels for use with multiple cameras
- Power supply included
- Adjustable antenna
- Standard video output
- RCA output

Also Available: WK-2502 Kit includes WT-2500 and WR-2501 above

## Tamper Resistant Cameras

### COLOR CORNER MOUNT CAMERA

- Color Version 420 line resolution • 1.0 lux • 1/4" CCD format • 2.9mm lens
- 90° corner mounting • Built-in electronic shutter
- Regulated 12V DC power supply (UL & CSA listed) included
- Video output: BNC • 4"L x 9"W x 7"H • 1.4 lbs

Also Available in  
Brass Colored Finish



LO

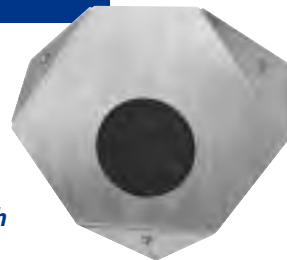
B/W version **CVC-105CM** Color version **CVC-605CM**  
Upgrade Mirror Front Plate for CVC-105CM & CVC-605CM

### TAMPER-RESISTANT STAINLESS STEEL CORNER MOUNT CAMERA

- 420 line resolution • 1.0 lux
- 1/4" CCD format • 2.9mm lens
- 90° corner mounting • Built-in electronic shutter
- 16 gauge steel face plate
- Tamper resistant screws
- Regulated 12V DC power supply • Video output: BNC

Vandal Resistant  
Heavy Duty

Also Available in  
Brass Colored Finish



- **CVC-607EXCM/2.5**
- **CVC-607EXCM/2.5/B (brass finish)**
- 480 line resolution • ExView 2.5mm lens • .03 lux

Color version/ 2.9mm lens **CVC-607CMT**  
480 line resolution ExView 2.5mm lens **CVC-607EXCM/2.5**

### COLOR CORNER MOUNT CAMERA WITH IR

- 420 line resolution • Nine IR LEDs • One CDS sensor
- 15' range • 0.02 lux • 1/3" CCD format
- 3.6mm lens • 90° corner mounting • Built-in electronic shutter
- 18 g. stainless steel housing
- BNC adapter incl. • Video output: RCA female
- Regulated 12V DC power supply (UL/CSA listed) included
- 4"L x 9"W x 7"H • 1.4 lbs



LO

**CVC-608CM/IR**

### CORNER MOUNT CAMERA WITH MIRRORRED FRONT PLATE

- 380 line resolution • 2.0 lux • 1/3" CCD format • 3.6mm lens
- Can be mounted in any 90° corner • Built-in electronic shutter
- Shatter resistant plexiglass • Video output: BNC
- Regulated 12V DC power supply (UL & CSA listed) included
- 4"L x 9"W x 7"H • 1.4 lbs.



LO

Color version **CVC-606MCM**

**NOTE: Most cameras on this page are available with high resolution electronics. Please inquire for price and availability.**

LO B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

## Specialty Cameras

### COLOR CEILING/WALL FLUSH MOUNT CAMERA

- 420 line resolution • 1.0 lux • 1/3" color CCD format
- 3.7mm pinhole lens • Built-in electronic shutter
- 18 gauge low profile white metal housing
- Camera can be aimed +/- 45°
- Video output: BNC
- Regulated 12V DC power supply (UL & CSA listed) included
- 2.6" Dial. x 1.8"L



**CVC-649FM**

### WEATHERPROOF ANGLE MOUNT CAMERA

- B/W Version 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens
- Color Version 420 line resolution • .92 lux • 1/3" CCD format • 3.6mm lens

- Built-in electronic shutter
- 18 gauge tamper-resistant stainless steel housing
- Regulated 12V DC power supply (UL & CSA listed) & BNC adapter included
- Video output: BNC • 2.5"L x 2.25"W x 2.75"H
- 1.4 lbs.

Stainless  
Steel Housing



B/W version/steel **CVC-95AM** Color version/steel **CVC-695AM** High resolution **CVC-695AM/HR**

### COLOR WALL MOUNT CAMERA

- 420 line resolution • 1.0 lux • 1/3" CCD format
- 3.6mm • Built-in electronic shutter
- White housing • Video output: RCA female, includes BNC adapter
- Regulated 12V DC power supply included (UL and CSA listed)
- 7 oz. • White housing



LO

Color version **CVC-691AM/W**

LO B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability & pricing.

## Discreet Cameras

### CCTV CAMERA WITH WORKING PIR MOTION DETECTOR

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Camera in WORKING PIR housing • Built-in electronic shutter • NO/NC trigger
  - Regulated 12V DC power supply (UL & CSA listed) & swivel mount included
  - 2"L x 2.75"W x 4.75"H • 9 oz.

B/W version **VL-272PIR**

Color version **VL-572PIR**



### CCTV CAMERA IN NON-WORKING PIR HOUSING

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format • 3.6mm pinhole lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm pinhole lens
- Built-in electronic shutter • Regulated 12V DC power supply (UL & CSA listed) included
  - Swivel mount included • 2"L x 2.75"W x 4.75"H • 9 oz.

B/W version **VL-265PIR**

Color version **VL-565PIR**



### COLOR OR B/W CEILING MOUNT CAMERA VIEWS SIDWAYS OR STRAIGHT DOWN

- B/W Version** 420 line resolution • 0.3 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Camera views from the side of housing at a 45° angle, or straight down
  - Built-in electronic iris • Regulated 12V DC power supply (UL & CSA listed) included
  - 1.75"L x 3.4"Dial • 2 oz.

B/W version **VL-262SD**

Color version **VL-562SD**



### IN-WALL CAMERA

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 420 line resolution • 1.0 lux • 1/3" CCD format • 3.6mm lens
- Fits into a single gang electrical box (included • Brushed stainless steel face plate
  - Video output: BNC • 2.75"L x 2.75"W x 4.25"H

Color version **CVC-675**

B/W version **CVC-75**



### DOOR MOUNT CAMERA

- 420 line resolution • 1.0 lux • 1/3" CCD format • 2.5mm lens
- For new installations or to replace existing peepholes • 110 ° angle of coverage
- Fits doors from 1 1/4" to 2" in depth • Weatherproof
- Regulated 12V DC power supply (UL & CSA listed) included • 2.75" L
- Shaft 1 1/8" Diam. • Viewing end 1 5/8" Diam



Color version **CVC-812PC**

### CLOCK CAMERA

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • 3.6mm lens  
**Color Version** 350 line resolution • 1.0 lux • 1/4" CCD format • 3.6mm lens
- Battery powered quartz clock • Built-in electronic shutter • Video output: BNC
  - Regulated 12V DC power supply (UL & CSA listed) included • 1.5"L x 11"W x 11"H • 2.5 lbs.



B/W version **CVC-285RC**

Color version **CVC-585RC**

## Board Cameras

### MINIATURE HIGH RESOLUTION B/W OR COLOR PINHOLE CAMERA

- B/W Version** 420 line resolution • 0.5 lux • 1/3" CCD format  
**Color Version** 420 line resolution • 1.0 lux • 1/4" CCD format

- Built-in 3.6mm lens with built-in electronic auto iris
- Electronic shutter system
- Cable outputs: Video BNC - DC power jack
- Power supply required (not included) see PSW-2 (B/W) and PSW-5 (Color)
- 0.75"L x 1"W x 1.25"H



B/W version **CVC-57PH/HR**  
 Color version **CVC-770PH**

### BOARD CAMERA IN ALUMINUM HOUSING

- B/W Version** 420 line resolution • 0.02 lux • 1/3" CCD format • Built-in 3.6mm lens  
**Color Version** 420 line resolution • .92 lux • 1/3" CCD format • Built-in 3.6mm lens

- Cable outputs: Video RCA female/DC power jack
- Regulated 12V DC power supply (UL & CSA listed) included
- 1.5"L x 2"W x 3"H



B/W version **CVC-44BC2**

Color version **CVC-544BC2**

### ALUMINUM CAMERA HOUSING FOR COLOR BOARD CAMERA CVC-521BC

- Pivotal bracket included
- 1.75"L 2"W x 2"H



**BCC-20**

### CORNER MOUNT ALUMINUM CAMERA HOUSING FOR COLOR BOARD CAMERA

- Housing for a mini CCTV board camera
- 5"L x 3.25"W x 4.25"H



corner mount **BCC-CM**  
 Also available for flat wall mounting **BCC-WM**

### COMPACT PINHOLE COLOR BOARD CAMERA

- 420 line resolution • .92 lux
- 1/4" CCD format
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female - DC power jack
- Requires 12V DC power supply see PSW-2
- 1.625"L x 1.625"W x 1.5"H



Pinhole version **CVC-521PH**

### COMPACT PINHOLE B/W BOARD CAMERA

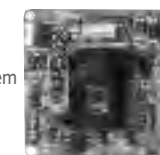
- 420 line resolution
- 0.5 lux
- 1/3" CCD camera
- Built-in 3.6mm pinhole lens
- Cable outputs: Video RCA female-DC power jack
- Requires 12V DC power supply see PSW-2
- 0.50"L x 1.75"W x 1.75"H



**CVC-50PH**

### COMPACT COLOR BOARD CAMERA

- 420 line resolution • .92 lux
- 1/4" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Outputs: Video RCA female-DC power jack
- Regulated 12V DC power supply (UL listed) included
- 1.625"L x 1.625"W x 1.5"H



**CVC-521BC**

### B/W MINI BOARD CAMERA

- 420 line resolution
- 0.02 lux
- 1/3" CCD format
- Built-in 3.6mm lens
- Electronic shutter system
- Cable outputs: Video RCA female/DC power jack
- Power supply required (not included) see PSW-2
- 1"L x 1.75"W x 1.5"H



**CVC-50BC**

**LO** B/W lens options include 2.5mm, 6mm, 8mm, & 12mm. Color lens options include UWA (2.2mm), 3.6mm, 6mm, 8mm, 12mm, & 16mm. Please inquire on specific model availability.

## Housings & Mounting Brackets

### CONDUIT COMPATIBLE DOME EXTENSION FOR SELECT DOME CAMERAS



- Fits HT-7246iHR
- Acts as junction box and conduit access

**CVC-TPEXT**

### BCP & 650CP CORNER/POLE ADAPTOR

For use with cameras as noted in this catalog

- Pole Mount Applications Require Straps which are sold separately see below
- Optional straps available in sizes to fit poles From 3" Dial. & above

**NEW**



**CP-SD10X** 650CP/S silver  
**BCP** gray 650CP/W white

### STRAPS FOR USE WITH BCP & 650CP POLE MOUNTS

See above

**650STRAP7** - For pole diameters 2.8" - 7"\*

**650STRAP12** - For pole diameters 6.7" - 12"\*

\*Straps can be combined for larger Diameter poles

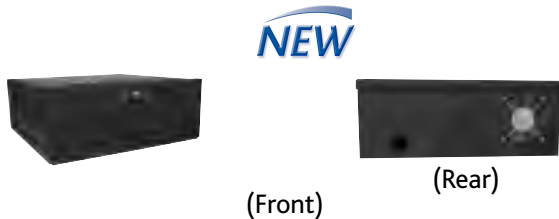
### WEATHERPROOF HEAVY DUTY CAMERA HOUSINGS INCLUDE BUILT-IN HEATER/BLOWER & BRACKET

- Operates on 24V AC
- Ivory Housing Color
- Use PSW-4 power supply
- Hardware will not rust
- Housing with heater, blower, & bracket
- Housing dimensions: 15 1/4"L x 5 1/2"W x 4"H
- Bracket dimensions: 11 1/2"L x 3 1/4"W x 4"H



**VCH-400HB/MT**  
Housing & bracket only **VCH-400/MT**

### DVR/VCR 16 GAUGE STEEL LOCKBOX WITH FAN



For desktop DVR or VCR units measuring up to 21" W x 21" L x 8" H

**LB-1**

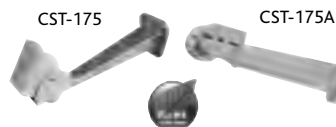
### T-BAR/WALL/CEILING/PEDESTAL CAMERA MOUNT

- All parts included to use as a T-Bar, Wall, Ceiling or Pedestal mount.
- Attaches to dropped Ceilings



**CST-TBAR**

### 11" HEAVY DUTY CAST ALUMINUM CAMERA MOUNTING BRACKET



**CST-175** Aluminum **CST-175A** Silver

### WALL MOUNT FOR HT-7246iHR DOME CAMERA



**7246WMT**

### UNIVERSAL CAMERA BRACKET WITH 90° ATTACHMENT

- Multiple configurations with included parts



**CST-110**

### UNIVERSAL CAMERA BRACKET

- Black metal bracket
- 360° rotation
- Use with mini cameras
- Standard 1/4" thread
- 2.25"H x 1.75"W



**CST-115**

### 6" UNIVERSAL CAMERA BRACKETS



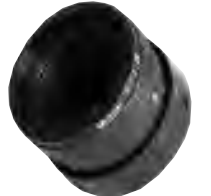
Black **CST-125**  
Almond **CST-125A**

Metal **CST-100**

## Camera Lenses, Cables & Adapters

### CAMERA LENSES

WE STOCK A COMPLETE LINE OF LENSES TO FIT ALL CAMERAS. ALL LENSES ARE CS MOUNT UNLESS SPECIFIED. NOTE: ALL C MOUNT LENSES CAN BE USED ON CS MOUNT CAMERAS WITH ADAPTER RING



#### C/S VARIFOCA LENSES

VF3.5-8	3.5-8mm F1.4	Manual Iris	
VF3.5-8 DC	3.5-8mm F1.4	DC Auto Iris	4 pin connector
VF2.8-12	2.8-12mm F1.4	Manual Iris	
VF2.8-12 DC	2.8-12mm F1.4	DC Auto Iris	4 pin connector
VF6-60 DC	6-60mm F1.6	DC Auto Iris	4 pin connector
VF5-100 DC	5-100mm F1.8	DC Auto Iris	4 pin connector

#### C/S MONOFOCAL LENSES

CL-8	8mm F1.3	No Iris
CL-16	16mm F1.6	No Iris
CSAR-1	CS Mount Adapter Ring	

**NEW**

### EXTRA LENSES FOR COLOR & B/W BOARD CAMERAS



<b>CLB-2.2</b>	2.2mm board camera lens	<b>CLB-6</b>	6mm board camera lens
<b>CLB-2.5</b>	2.5mm board camera lens	<b>CLB-8</b>	8mm board camera lens
<b>CLB-2.9</b>	2.9mm board camera lens	<b>CLB-12</b>	12mm board camera lens
<b>CLB-3.6</b>	3.6mm board camera lens	<b>CLB-16</b>	16mm board camera lens

### POWER SUPPLIES & BNC CABLES



24 Volt AC power supply, 20 Volt amps terminal connections	.....	<b>.PSW-3</b>
24 Volt AC power supply, 40 Volt amps terminal connections	.....	<b>.PSW-4</b>
12 Volt DC power supply, 1000mA, 1amp center positive	.....	<b>.PSW-5</b>
24/28 Volt AC (selectable) @ 3 amps	.....	<b>.PSW-6</b>



3 ft. cable (BNC male to BNC male)	.....	<b>.BB-3</b>
6 ft. cable (BNC male to BNC male)	.....	<b>.BB-6</b>
12 ft. cable (BNC male to BNC male)	.....	<b>.BB-12</b>
25 ft. cable (BNC male to BNC male)	.....	<b>.BB-25</b>
50 ft. cable (BNC male to BNC male)	.....	<b>.BB-50</b>

### CCTV POWER/VIDEO EXTENSION CABLES, COMBINES BOTH POWER & VIDEO SIGNAL IN ONE MULTI-PURPOSE CABLE



<b>BNC to BNC</b>		<b>BNC to RCA</b>
25 ft. cable	.....	<b>.CBL-25BB</b>
50 ft. cable	.....	<b>.CBL-50BB</b>
100 ft. cable	.....	<b>.CBL-100BB</b>
150 ft. cable	.....	<b>.CBL-150BB</b>
		25 ft. cable
		<b>.CBL-25</b>
		50 ft. cable
		<b>.CBL-50</b>
		100 ft. cable
		<b>.CBL-100</b>
		150 ft. cable
		<b>.CBL-150</b>

**speco technologies**

# SINGLE DOOR ACCESS ELECTRONIC KEYPADS



Professional commercial & residential  
single door access control  
electronic keypads

[www.specotech.com](http://www.specotech.com)

# Family of Single Door Access Electronic Keypads

Speco Technologies single door access product line features **cost effective, esthetically pleasing keypads** that are easy to program. **Three keypad outputs** are assignable by codes that permit different levels of access for **130 unique users**. The database is **easy to manage and secure**.

Any of these products can be tied into electric strikes offered by leading access control manufacturers that are used in businesses, institutions and residential complexes. The triple relay output design of these units also allow for integration with lighting, HVAC and CCTV equipment.

## Stainless Steel Indoor Keypad

Speco Technologies' stainless steel single door keypad is designed with the electronics residing in the self-contained unit.

### SG-100



#### Features

- Flush mount – single gang box
- Self contained electronics package
- Indoor use
- Sounder
- 130 users
- Input trigger for request to exit
- 2 independent relay outputs (5A/250V AC)
- 1 TLT output (5A/250V AC)
- Adjustable time relay of up to 99 seconds for each relay output, or latched
- Rank/Code program administration
- Each output is assignable by code
- Codes can range from 3 to 6 digits
- Unit shuts down for 20 seconds after entering 3 incorrect codes
- Master code can shut down all others as a temporary lock-out
- Visual/Audible function confirmation
- Tamper switch
- 12/24 Volt – AC/DC operation

#### Specifications

Power	AC or DC, from nominal 12V to 24V
Acceptable Voltage Variation	.9V DC to 28V DC max., 10V AC to 27V AC max.
Power Consumption	At 12V DC - less than 160m W in standby Less than 580m W max. in operation At 24V DC - less than 480m W in standby Less than 1.4W max. in operation At 12V AC - less than 360m W in standby Less than 1.2 W max. in operation At 24V AC - less than 1.2W in standby Less than 2.9W max. in operation
Operating Temperature	-13°F to 130°F (-25°C to +55°C)
Dimensions	4 1/2" H x 3" W x 3/4" D (including electronics panel)

## Mullion & Designer Keypads

Speco Technologies weatherproof designer backlit keypad and weatherproof mullion mounted keypad are designed as two piece units that are fully sealed for all environments. The electronics reside in the separate protected area.



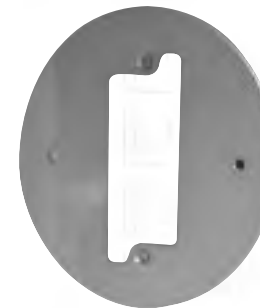
- Surface Mount
- Indoor/Outdoor keypad
- Single gang design
- Back plate included to cover gang boxes & rough openings

### SG-WM200

- Mounts on narrow mullion of glass and aluminum doors
- Indoor/Outdoor keypad
- Surface mount applications
- Dimensions:  
4 3/8" H x 3 5/8" W x 5/8" D



### SG-W300



wall plate for SG-W300



electronics housing for SG-WM200 & SG-W300

#### Common Features

- 12 backlit keys
- Sounder
- Weather resistant
- 130 users
- Input trigger for request to exit
- 3 independent relay outputs (5A/250V AC)
- Adjustable time relay for up to 99 seconds for each relay output or latched
- Rank/Code program administration
- Each output is assignable by code
- Codes can range from 3 to 6 digits
- Unit shuts down for 20 seconds after entering 3 incorrect codes
- Master code can shut down all others as a temporary lock-out
- Audible function confirmation
- 12/24 Volt – AC/DC operation

#### Specifications

Power	AC or DC, from nominal 12V to 24V
Acceptable Voltage Variation	.9V DC to 28V DC max., 10V AC to 26V AC max.
Power Consumption	At 12V DC - less than 100m W in standby Less than 1.4m W max. in operation At 24V DC - less than 360m W in standby Less than 3.3W max. in operation At 12V AC - less than 255m W in standby Less than 2.3 W max. in operation At 24V AC - less than 1W in standby Less than 5.7W max. in operation
Operating Temperature	-13°F to 130°F (-25°C to +55°C)





# Considerations When Selecting A Camera

## B/W or Color?

Until recently B/W cameras accounted for the majority of the CCTV market. Their combination of high quality and low cost made them the obvious choice for system's use. They offer high resolution of between 400 to 700 lines, and low light sensitivity of .02 lux or better. They are also automatically IR sensitive for use with supplemental or existing sources of IR lighting. They are priced lower than color cameras but their cost savings do not stop there. The support equipment used with B/W cameras costs considerably less also. For example, a B/W multiplexer costs less than a color version. The same cost comparison could be made for B/W vs. color quad splitters and monitors. Generally speaking you can put together a high quality B/W CCTV system that will remain trouble free for years to come at a fair price.

Color equipment has recently made tremendous advances. The cameras now range from a moderate 350-line resolution with 1 lux of sensitivity, to 550 lines of resolution with .03 lux of sensitivity. Many color cameras are classified as day/night allowing them to give you good color pictures by day, and then switching to a high quality B/W picture at night. Color cameras can now be IR sensitive, a feature that was unheard of not too long ago. In addition, DSP (digital signal processing) has made color cameras easy to use while taking many of the controls (and decisions) away from the installer. On the price side color cameras have been coming down in cost along with their associated support equipment like multiplexers, quad splitters and monitors. Items like DVRs and VCRs don't care if a camera is color or B/W so the cost of these items remains constant. A color system today will still cost about 30% more than a similar B/W, but to many people it is well worth it to see color images, like they see on their home TV sets. Just remember that color is less forgiving than B/W. A marginal installation that displayed a great B/W picture may not stand up to a color signal. Incorrect cable, connectors, splitters and power are just some of the items to watch out for when going color.

## Resolution and Angle of Coverage

Resolution refers to a camera's ability to see detail, while the Angle of Coverage deals with how much area is being placed onto the monitor for viewing. Normally we think about these two specifications separately, but when designing a system it is best to combine them. The highest resolution camera will not be able to identify a person's face if the camera is watching an area of 100' in width, whereas the lowest resolution camera will give you facial identification if the camera is only viewing the width of a doorway. Always try to match the covered area to the surveillance objective. If you are asked to cover a large parking lot there is no set formula to accomplish this. You must find out what your customer expects the camera to see. A single normal resolution camera can show a large parking lot if the objective is to see how crowded it is. A single high-resolution camera will add some detail to the scene and begin to show certain details of the cars and the people walking around. Multiple cameras, each showing smaller areas of the parking lot will be required if you want details of what the people are doing and what they look like. Speed Domes offer the ability for a single camera to cover large areas with varying amounts of detail. They accomplish this by panning, tilting and zooming either under operator control or through pre-programmed sequences. The drawback of Speed Domes is the high initial cost and the fact that they can only watch one area at a time, leaving other areas vulnerable.

## How far will the camera see?

A camera will see to infinity. If you point the camera towards the moon, it will see it. What the customer really wants to know is how far the camera will see with clarity. It is your job to find out the distance and width that the customer needs to see. Do they want to recognize a face or see if a large truck is in a parking lot? This will determine the mm of the lens and the area of coverage. There are various methods for determining what size lens to use in various circumstances, including lens wheels and computer programs. Here is a short summary of coverage for the most popular lens sizes:

### Angles (in degrees) of select lenses on 1/3" and 1/4" format cameras

Lens mm	1/3" Format			1/4" Format		
	Horizontal Degrees	Vertical Degrees	Diagonal Degrees	Horizontal Degrees	Vertical Degrees	Diagonal Degrees
2.5mm	90	72	101	65	51	85
2.9mm	80	64	92	57	44	77
3mm	77	62	90	56	43	75
3.6mm	67	53	80	47	36	65
4mm	63	48	74	43	33	60
6mm	44	33	53	29	22	42
8mm	34	26	41	22	17	32
12mm	23	16	28	15	11	21
16mm	17	13	21	11	8	16

# Video Glossary

## What is CCTV?

Closed Circuit Television is a group of cameras, monitors and accessory equipment that work together as a system and are interconnected by various types of cables.

## What is the Purpose of CCTV?

It is a tool used to protect people, property, enhance safety, and improve productivity.

## Are CCTV Systems Complicated?

For the most part, today's modern equipment is self-adjusting and has a long trouble-free lifespan. Packaged cameras (such as a bullet camera) are self-contained units that include the lens, mounting bracket, housing and power supply in a single box. CCTV has become a "plug & play" market.

## Types of CCTV Cameras:

All are available in B/W and Color as well as normal and low light configurations

**Board Camera:** Fully functional camera with a built-in lens on a Printed Circuit Board. These cameras are not in a housing. Useful for concealing and building into custom applications.

**C/CS Cameras:** Refers to conventional type camera bodies that require the separate purchase of all options including lens, mounting bracket, housing, power supply, and heater/blower.

**Dome Cameras:** Low profile, ceiling mounted self-contained camera package including lens, and power supply. Camera is adjustable within the housing for perfect aiming. Plug and play ease of installation.

**EXview Camera:** Any camera using the Sony EXview Hyper-HAD CCD for improved sensitivity and higher resolution.

**Pinhole Camera:** Bullet or Board camera using a special lens that allows it to see out of a small (1/16th of an inch) opening. Useful for discreet and hidden applications as well as when a large depth of field is required.

**Varifocal Camera:** A camera whose lens allows for the adjustment of the field of view. This camera can zoom in and out.

**Waterproof Camera:** Bullet camera that can be placed underwater or in extremely damp/wet conditions where a normal weatherproof camera might leak.

## Common CCTV Terms:

**Automatic Light Compensation (ALC):** The cameras built-in ability to compensate for changes in scene lighting

**Aperture:** The opening in a lens that allows available light to enter the camera.

## Auto White Balance (AWB):

Circuitry in a color camera that allows it to yield perfect color pictures in different types of lighting.

## Automatic Gain Control (AGC):

Circuitry in a camera that allows it to improve performance in low light conditions.

**Automatic Iris Lens (AI):** Type of lens where the aperture physically opens and closes to adjust the amount of light entering the camera. Available in "DC" and "Video" configurations to match your camera. Not required on cameras with electronic shutter systems.

## Back Light Compensation (BLC):

Ability of a camera to balance the lighting in a scene with an extremely bright background such as sunlight.

**Balun:** An impedance matching device that allows you to send video signals over UTP

**BNC:** A type of video connector

**C/CS Mount Lenses:** Type of lens used on a standard CCTV camera

**CRT:** The picture tube in a monitor

**CCD:** The device in a camera that "takes" the picture and converts it to electrical signals.

**Coaxial Cable:** Normally RG-59U or RG-6 in CCTV systems. This cable should have a copper center conductor and 95% copper shield for best performance.

**Day/Night Camera:** A camera that displays color pictures in good lighting conditions, and automatically switches to B/W in low light conditions

**Depth of Field:** The portion of a video picture that is in focus.

**Digital Video Recorder (DVR):** A device that compresses and records video signals onto built in Hard Disk Drives (HDD)

**Field of View-** Area covered by the camera.

**Focal Length:** The rated coverage of the lens in mm. Smaller numbers give a wider angle of coverage.

**Format:** The size of the CCD in a camera. Common sizes are 1/4", 1/3" and 1/2"

**F-Stop:** Measurement of how much light a lens will let in. The smaller the number the more light that can enter.

**Format:** The size of CCD in a camera. Common sizes are 1/4", 1/3" and 1/2"

**F-Stop:** Measurement of how much light a lens will let in. The smaller the number the more light that can enter.

**Ground Loop:** When the camera and monitor are powered from sources using different grounds with different ground potentials. If a path for current flow (other than the coax) exists, ground loops are possible. Solution: Install a ground loop corrector or power all camera from the same source as the monitor.

**Intensifier:** Amplifies & balances extremely low levels of visible and IR light to display usable pictures where other cameras are not able. Several technologies including WDR (Wide Dynamic Range), DNR (Dynamic Noise Reduction) and Dynamic Shutter Technology work together to display pictures in as little as .002 lux. The lack of active IR LEDs on these cameras reduces current requirements, reflectivity issues and heat build-up.

**IP Address:** A string of numbers that identifies a camera or DVR on a network

**Iris:** Allows you to physically change the F-stop of a lens

**LCD Monitor:** Flat screen monitor used when space is at a premium. Only 2" deep.

**Looping:** The ability to pass your video signal through a device and continue it on to another. Normally used in monitors.

**Line Lock:** A string of numbers that identifies a camera or DVR on a network

**Lux:** Measure of light equaling 1/10th of a foot-candle.

**Monitor:** Displays the video signal. Does not have a tuner like a TV set.

**Multiplexer:** Takes multiple cameras (up to 16) and combines them onto a single cable or screen for viewing or recording.

**Observation Systems:** Complete packages that include camera, monitor, mounting bracket, cable, power supplies, etc.

**Quad Splitter:** Combines four cameras onto one screen for viewing or recording.

**Resolution:** Measure of a camera's ability to reproduce details. Higher numbers are better.

**Sensitivity:** Measured in Lux. Camera's ability to operate in low light situations. Lower numbers are better.

**Sequential Switcher:** Displays cameras, one at a time upon a monitor or into a VCR. The time spent on each camera before moving on to the next is adjustable.

**Telephoto:** When a lens can see a long distance with great detail.

**Termination:** 75-ohm load placed at the end of a video line.

**Time Lapse VCR:** Recorder that runs for extended periods of time (up to 40-days) on a single cassette of tape. Usually has a built-in time/date generator.

**Varifocal Lens:** A lens that can be set for various focal lengths to achieve select coverage