Compact B/W and Color Bullet Cameras
TRUE Day/Night Bullet Camera

A-S35CNV **A-S230CWX / A-S190SWX** **SDN650**

Color and B&W Bullet

The A-S230CWX and A-S190SWX bullet style cameras are some of the smallest full-featured cameras available. The small size of the cameras, only 23mm in diameter for the color and 19mm for the B&W permits their use in a wide variety of CCTV applications, when covert or near covertness is required – such as residential applications or even in nightclubs or bars.

The cameras incorporate standard-resolution CCDs (380TVL for color and 420TVL for B&W) with a 3.6mm fixed iris lens into a small and unobtrusive housing. The use in outdoor environments is discouraged.

The video and power connections to the cameras are a standard BNC connector and power pin for 15VDC operation. A BNC/power pin to RJ-11 adapter and 60-ft of RJ-11 cable for ADT system applications is included. All models include a wall mount.

Color Day/Night Bullet

The small size of the A-S35CNV bullet style camera - only 37mm in diameter including IR LEDs permits its use in a variety of CCTV applications. The camera incorporates a standard-resolution (380TVL) color CCD with a 6mm fixed iris lens into a small, unobtrusive and weather resistant housing with sunshield.

TRUE Day/Night Bullet

The SDN650 bullet style camera features the SONY® HQ1 chip set and offers TRUE Day/Night capability with an automatic switching IR filter. The camera offers 18 IR LEDs projecting IR illumination to nearly 50-feet. The camera incorporates a high-resolution (520TVL) color CCD with 3.8-9.5 aspheric varifocal auto-iris lens into a 2.4" diameter by 5.71" long weather resistant housing with sunshield.

IR Illumination

The built-in IR illumination allows the cameras to produce a black and white image in the absence of any visible light (0 lux condition). The IR illumination of the S35CNV provides coverage up to 10 meters (33-ft), and the SDN650 provides coverage up to 15 meters (50-ft). As conditions approach near darkness, the cameras automatically switch the IR LEDs on to illuminate the camera field of view. The SDN650 switches an internal IR filter out of the field of view offering a further improvement in low-light level viewing.

Note: Illumination performance is a function of reflective objects in the camera's field-of-view. Outdoor nighttime viewing is improved with the addition of external visible lighting.

The video and power connections to the cameras are a standard BNC connector and power pin for 15VDC operation (S230 / S190 / S35 only) and 12VDC operation (SD650 only). A BNC/power pin to RJ-11 adapter and 60-ft of RJ-11 cable for ADT system applications is included. All models include a wall mount. The cameras are quick and easy to install in a variety of indoor (or outdoor day/night only) applications.

Features

Color / B&W

- Ultra compact size –
  Color: .9" diameter X 2.9" long
  B&W: .75" diameter X 2.3" long
- 3.6mm wide angle fixed iris lens
- Anodized aluminum housing
- Rear-style swivel mount bracket included

Color Day/Night

- Compact size – 1.5" diameter X 3.6" long
- 6.0mm fixed iris lens
- AGC, ATWB & Backlight compensation
- Rain and fog resistant glass coating
- Weather resistant anodized aluminum housing and sunshield
- Bottom-style swivel mount bracket included

TRUE Day/Night

- Small size – 2.4" diameter X 5.71" long
- 3.8-9.5mm aspheric VF AI lens
- Automatic mechanical IR-Filter switch
- Weather resistant anodized aluminum housing and sunshield
- Top, bottom, rear-style swivel mount bracket included

Ordering Guide

SCN#	Item
A-S230CWX	Color Bullet Camera, 3.6mm lens
A-S190SWX	Black and White Bullet Camera, 3.6mm lens
A-S35CNV	Color Day/Night Bullet Camera, w/6 LEDs, 6mm lens
SDN650	TRUE Color Day/Night Bullet Camera, IR filter, w/18 LEDs, 3.8-9.5mm VF AI lens

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Specifications

Image Sensor

Color Bullet:	1/3" IT CCD, 510 (H) x 492 (V) Pixels
B&W Bullet:	1/3" IT CCD, 510 (H) x 492 (V) Pixels
Color Day/Night Bullet:	1/3" IT CCD, 510 (H) x 492 (V) Pixels
TRUE Day/Night Bullet:	1/3" IT CCD, 768 (H) x 494 (V) Pixels

Resolution

Color Bullet:	> 380 Lines
B&W Bullet:	> 420 Lines
Color Day/Night Bullet:	> 380 Lines
TRUE Day/Night Bullet:	> 520 Lines

Lens

Color Bullet:	3.6mm, fixed iris
B&W Bullet:	3.6mm, fixed iris
Color Day/Night Bullet:	6mm, fixed iris
TRUE Day/Night Bullet:	3.8-9.5mm VF, AI, IR, Aspherical

LED Illumination (Color Day/Night Only)

LED:	6-total, 10 meter beam
Wavelength:	850nm
Beam Length:	10 meters (~33-ft)
Half angle:	+/- 15 degrees
Sensor Detection Range:	10 lux min, 30 lux max, 15 lux avg

LED Illumination (TRUE Day/Night Only)

LED:	18-total, 15 meter beam
Wavelength:	850nm
Beam Length:	15 meters (50-ft)
Half angle:	+/- 15 degrees
Sensor Detection Range:	1.5 lux min, 10 lux max, 5 lux avg

Electronic Iris

1/60 ~ 1/100,000 Sec.
(TRUE Day/Night Bullet:1/60 ~ 1/50,000 Sec.)

Minimum Illum.

Color Bullet:	0.5 lux, F2.0
B&W Bullet:	0.05 lux, F2.0
Color Day/Night Bullet:	0.0 lux (IR LEDs on)
TRUE Day/Night Bullet:	0.0 lux (IR LEDs on)

Video Output

1.0Vp-p (75-ohms), 6-pin modular,
Video BNC

Camera Connectors

BNC / Power (RJ-11 adapter included)
60' RJ-11 camera cable included

Dimensions

Color Bullet:	0.9" dia. x 2.9" (23mm dia. x 74mm)
B&W Bullet:	0.75" dia. x 2.3" (19mm dia. x 60mm)
Color Day/Night Bullet:	1.5" dia. x 3.6" (37mm dia. x 92mm)
TRUE Day/Night Bullet:	2.4" dia. x 5.7" (60mm dia. x 145mm)

Power

Color Bullet:	15 VDC, 1.5 w (max)
B&W Bullet:	15 VDC, 1.5 w (max)
Color Day/Night Bullet:	15 VDC, 3.0 w (max)
TRUE Day/Night Bullet:	15 VDC, 6.0 w (max)

Operating Temperature

Color Bullet:	14˚F ~ 122˚F (-10˚C ~ +50˚C)
B&W Bullet:	14˚F ~ 122˚F (-10˚C ~ +50˚C)
Color Day/Night Bullet:	-4˚F ~ 122˚F (-20˚C ~ +50˚C)
TRUE Day/Night Bullet:	-4˚F ~ 122˚F (-20˚C ~ + 50˚C)

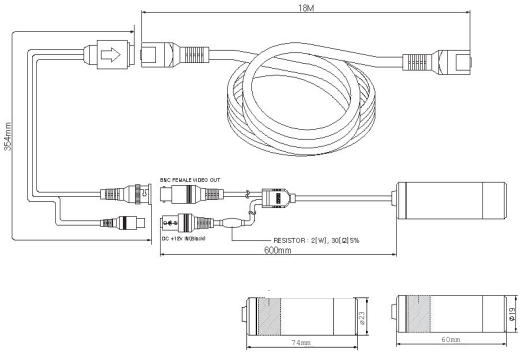
Environmental

TRUE Day/Night Bullet	IP67 rated

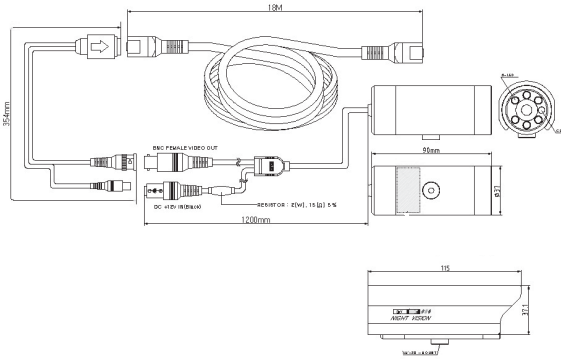
Optional Accessories

A-A18C	60' Camera cable
A-A30C	100' Camera cable
A-A60C	200' Camera cable
A-A90C	300' Camera cable
A-MA800	Modular cable adapter
A-LA800	Line Amplifier, for camera runs over 300'
A-AB50C	50' Cable, BNC to BNC
CONKIT4C	4-ch A/V Interface

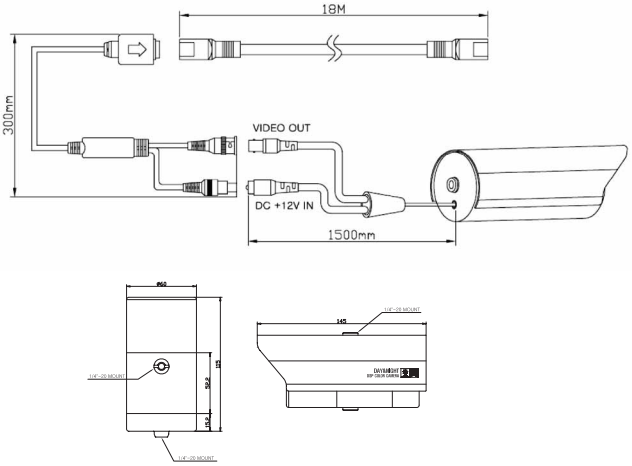
A-S230CWX / A-S190SWX



A-S35CNV



SDN650



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