

VANDAL RESISTANT CAMERAS - WS4 Recessed Surface Mount Wedge



DESCRIPTION

The WS4 is the recessed body version of the WS3. The back box and lower body are both cast aluminum. This window is high-impact polycarbonate, and features the Window Guard™ paint shield and is scratch resistant. An environmental seal makes the WS4 perfect for indoor or outdoor applications. A day/night camera is also available.

FEATURES

- Heavy-duty cast aluminum construction
- 3-axis camera bracket, allowing 360° pan, 180° tilt
- Environmentally sealed
- Scratch resistant polycarbonate viewing window
- Window Guard™ paint shield

CAMERA/LENS CHOICES

- Standard or hi-res b/w
- Standard or hi-res color
- Hi-Res day/night
- Fixed 3.6mm
- Vari-focal 4-8mm
- Auto iris 4-9mm

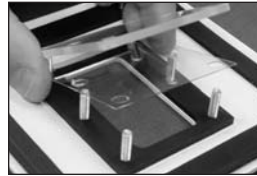
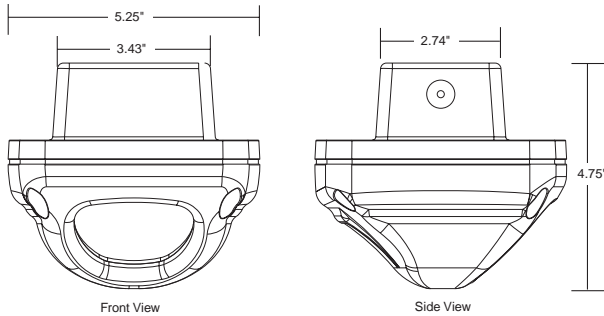
CERTIFICATIONS

Designed for NEMA 4, IP65



ARCHITECTURAL/ENGINEERING SPECIFICATIONS

The WS4 housing back box and lower body shall both be manufactured from 3/16" thick cast aluminum with an off-white powder coat finish. The housing shall be environmentally sealed. The viewing window shall be constructed of 1/8" thick polycarbonate and a paint shield included. One Window Guard™ paint shield shall be included. A camera shall be included. In addition, an adjustable 3-axis camera bracket shall be included, allowing for 20° pan, and in ceiling mount applications allowing 10° to 80° tilt. Available with standard or hi-res black and white, standard or hi-res color, or hi-res day/night cameras; fixed, iris vari-focal or auto iris varifocal lens. A factory installed NVT twisted pair module, IFS fiber transmitter card and 24 VAC heater shall be available as options.



Videolarm's exclusive Window Guard Paint Shield™ helps protect housing windows from vandals using spray paint or paintball guns.

ENVIRONMENTAL SPECIFICATIONS

Temperature Range 0° to 120° F

CAMERA SPECIFICATIONS - see page 29

MECHANICAL SPECIFICATIONS

Cable Entry One conduit opening
 Pan/Tilt Manual; 20° pan / 10° to 60° tilt in ceiling mount applications



CONSTRUCTION 3/16" thick cast aluminum
 1/8" polycarbonate window
 FINISH Off-white powder coat

DIMENSIONS
 Base 5.25" (H) x 5.25" (W) x 4.25" (D)

ELECTRICAL SPECIFICATIONS

Input Voltage 12 - 28 VDC or 15 - 28 VAC
 Must be a regulated power supply
 Current Draw 12 VDC - 350mA; 24 VAC - 202mA
 Power Requirements
 Camera 12 VDC - 4.2W; 24 VAC - 4.8W
 Heater 7W (24 VAC only)
 Video Connector BNC

FACTORY INSTALLED OPTIONS

-  NVT twisted pair transmitter module (customer must purchase video receiver from NVT)
-  IFS fiber transmitter card (customer must purchase receiver from IFS)
- 24 VAC heater

ADDITIONAL OPTIONS

- WSLP68 - Lens combination pack (6 mm, 8 mm)
- PS12 - 12VDC power supply
- WS3PS - Additional paint shields

SHIPPING SPECIFICATIONS

Model	Unit Weight	Shipping Weight	Shipping Box Dim.
WS4	3 lbs	4 lbs	9 x 9 x 8

* Shipping weights depend on box dimensions.

VANDAL RESISTANT CAMERAS - Camera and Lens Specifications

WARRIOR CAMERA SPECIFICATIONS

	Standard B/W Camera	Hi-Resolution B/W Camera	Standard Color Camera	Hi-Resolution Color Camera	Hi-Resolution Day and Night Camera
Signal System	EIA or CCIR	EIA or CCIR	NTSC or PAL	NTSC or PAL	NTSC or PAL
Imager	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Scanning System	2:1 Interlaced	2:1 Interlaced	2:1 Interlaced	2:1 Interlaced	2:1 Interlaced
Synchronizing System	12 VDC internal	12 VDC internal	12 VDC internal, 24 VAC line lock ²	12 VDC internal, 24 VAC line lock ²	12 VDC internal, 24 VAC line lock ²
Horizontal Resolution	420 TV Lines	570 TV Lines	350 TV Lines	480 TV Lines	480 TV Lines
Signal-to-Noise Ratio	More than 48 dB	More than 48 dB	50 dB or better	50 dB or better	50 dB or better
Minimum Illumination	0.1 Lux (F1.2)	0.08 Lux (F1.2)	0.3 Lux (F1.2)	0.4 Lux (F1.2)	Color - 0.4 Lux (F1.2) B/W - 0.08 Lux (F1.2) Switches to B/W at 1.6 Lux
Video Output	1Vp-p 75 ohm composite	1Vp-p 75 ohm composite	1Vp-p 75 ohm composite	1Vp-p 75 ohm composite	1Vp-p 75 ohm composite
Gain Control	Auto	Auto	ON/OFF selectable dip switch	ON/OFF selectable dip switch	ON/OFF selectable dip switch
Electronic Iris	Auto	Auto	ON/OFF selectable dip switch	ON/OFF selectable dip switch	ON/OFF selectable dip switch
Auto Iris Control	N/A	DC Drive Iris Control w/adjustable level	DC Drive Iris Control w/adjustable level	DC Drive Iris Control w/adjustable level	DC Drive Iris Control w/adjustable level
Switchable Shutter Speed	1/50 1/60 - 1/100,000 sec. (Auto)	1/50 1/60 - 1/100,000 sec. (Auto)	Manual: 1/60, 1/100, 1/1000, 1/100000 dip switch	Manual: 1/60, 1/100, 1/1000, 1/100000 dip switch	Manual: 1/60, 1/100, 1/1000, 1/100000 dip switch
White Balance	N/A	N/A	AWB/Indoor/Outdoor/ATW	AWB/Indoor/Outdoor/ATW	AWB/Indoor/Outdoor/ATW
Flickerless	N/A	N/A	ON/OFF selectable dip switch	ON/OFF selectable dip switch	ON/OFF selectable dip switch
Backlight Compensation	Auto	Auto	ON/OFF selectable dip switch	ON/OFF selectable dip switch	ON/OFF selectable dip switch
Lenses	2.5,3.6,6,8,12,16mm Fixed ³ 4-8mm Fixed Iris Varifocal ¹	2.5,3.6,6,8,12,16mm Fixed ³ 4-8mm Fixed Iris Varifocal ¹ 3.5-8mm Auto-Iris Varifocal ¹	2.5,3.6,6,8,12,16mm Fixed ³ 4-8mm Fixed Iris Varifocal ¹ 4-9mm Auto-Iris Varifocal ¹	2.5,3.6,6,8,12,16mm Fixed ³ 4-8mm Fixed Iris Varifocal ¹ 4-9mm Auto-Iris Varifocal ¹	2.5,3.6,6,8,12,16mm Fixed ³ 4-8mm Fixed Iris Varifocal ¹ 4-9mm Auto-Iris Varifocal ¹

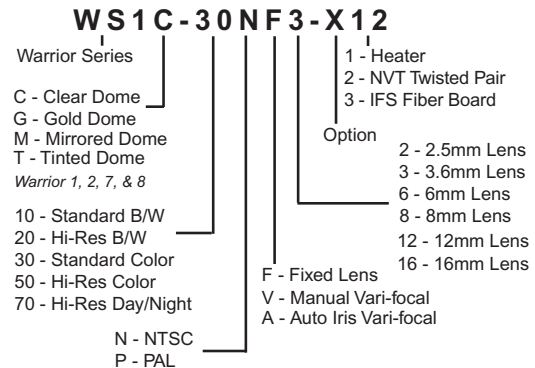
1 - Not available on Warrior 5 and 6 2 - Not available on Warrior Pan/Tilt 3 - Warrior 5 and 6 2.5mm and 3.6mm only

WARRIOR LENS SPECIFICATIONS

FIXED LENSES						
Focal Length	2.5mm	3.6mm	6mm	8mm	12mm	16mm
Format Size	1/3"	1/3"	1/3"	1/3"	1/3"	1/3"
Relative Aperture (F)	2.0	2.0	2.0	2.0	2.0	2.0

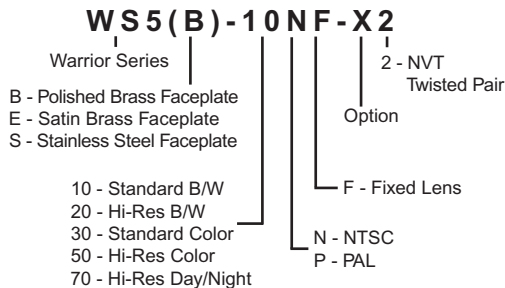
VARIFOCA LENSES		
Focal Length	4-8mm fixed	4-9mm auto iris
Format Size	1/3"	1/3"
Relative Aperture (F)	2 - 2.6	1.6 - 2.4

WARRIOR 1-4, 7-8 MODEL CHART

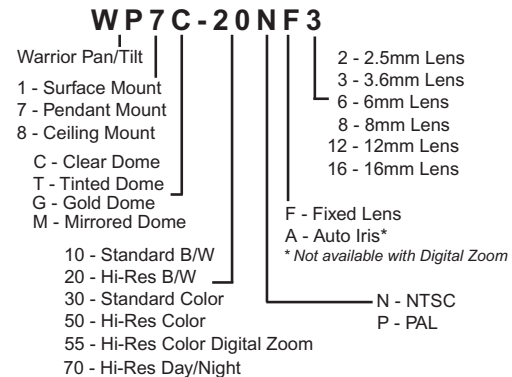


Some options may not be available on all models

WARRIOR 5 AND 6 MODEL CHART



WARRIOR PAN/TILT MODEL CHART



Product specifications are subject to change without notice.

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