



A Brilliant Traffic
Surveillance
Camera



SCR515PRO

- Fog penetration
- Advanced headlight suppression
- 3D DNR (3D Noise Reduction)
- Superior 600TV lines color image resolution
- Shadow adjustment increases exposure level



CatchAll™ II Series

Traffic surveillance is more than shutter speed

Shutter speed is not the only key to traffic surveillance performance. A variety of external factors, including vehicle speed, weather, and headlights, can all present serious problems. The SCR515PRO therefore utilizes MESSOA's CatchAll™ II and Lumii™ II technologies, which optimize the resolution of traffic problems. The SCR515PRO also features greatly increased sensitivity and noise reduction technology, yielding much brighter and clearer images. With its 600 TV lines of resolution, low-lux image capture, 3D noise reduction technology and the industry's leading fog penetration technology, the SCR515PRO is a truly brilliant next-generation traffic solution.

Superior color image quality at 600TV lines resolution



Equipped with a SONY Super HAD II Hi-Res CCD, the SCR515PRO delivers superior image quality at 600 TV lines resolution in color mode and 700 TV lines resolution in b/w mode.



Conventional



MESSOA SCR515PRO

Fog penetration



The SCR515PRO's fog penetration technology peers through fog and smoke to recover real color images from foggy or smoky video streams, enhancing the camera's identification ratio by delivering more information-rich imagery.



Scheduled ICR Day/Night Switching



The advantage of scheduled switching over sensor-based switching is that the former is immune to transitory external lighting changes. Sensor-based switching can inadvertently shift modes when subjected to such external factors, capturing b/w images in daylight and color images at night. Scheduled switching ensures the camera always captures images in the correct mode.



Day mode



Night mode

3D DNR



3D noise reduction is a powerful method for reducing image noise that produces extremely clear images even in very dim lighting conditions.



Conventional



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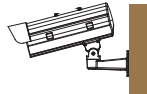


Intelligent traffic modes

The camera switches intelligently between four traffic modes, adjusting automatically to the image-capture environment. Intelligent traffic cameras switch to the condition-appropriate mode, enabling them to monitor surrounding areas to gather information on vehicle type, color and shape.

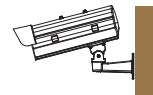
TRAFFIC 1

Used when vehicle speeds range from 20 to 110 km/h (12-68 mph). The camera should be directly facing oncoming vehicles.



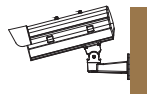
TRAFFIC 2

Used for high-speed environments such as freeways where vehicles are traveling 90-180 km/h (56-112 mph). The camera should be directly facing oncoming vehicles.



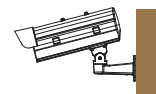
TRAFFIC 3

Used when vehicle speeds range from 20 to 110 km/h (12-68 mph). The camera should be at an angle to oncoming vehicles.



TRAFFIC 4

Used in parking areas where vehicle speeds are from 0 to 20 km/h (0-12 mph). The camera should be directly facing oncoming vehicles.



Shadow Adjustment



The camera's shadow-adjustment function increases exposure levels in shadowed portions of images to make dark areas more visible while retaining detail in bright areas.



Conventional



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SCR515PRO

specifications



Image system				
Signal system	NTSC		PAL	
Imaging area	4.9mm x 3.7mm			
Image pickup device	SONY 1/3" Super HAD II Hi-Res CCD			
Effective pixels(HxV)	768 x 494		752 x 582	
Electric				
Scanning system	2:1 Interlace V: 59.94Hz, H: 15.734KHz		2:1 Interlace V: 50Hz, H: 15.625KHz	
Sync system	Internal / line lock (AC input only)			
Horizontal resolution	600 / 700 TV lines (day/night mode)			
Infrared illuminator	70M distance, 850nm wavelength, view angle of 50 degree			
LEDs	Superior power:96 pcs LEDs; Metaphase-type LEDs, high-efficient array			
Gamma correction	10 levels selectable			
Minimum illumination	Day mode: 0.01 Lux(F1.4, AGC on , 10IRE); 0.04 lux (F1.4, AGC on , 50IRE) Night mode: 0.003 Lux(F1.4, AGC on , 10IRE); 0.01 lux (F1.4, AGC on , 50IRE)			
S/N ratio	More than 50dB (AGC off)			
Built-in Lens	f:7.5-50mm F1.3, IR-corrected (DC Lens)			
Privacy zone	On / Off, up to 8 zones			
Day/Night mode	Auto / Mono / Color / D/N Sync / Schedule			
Iris control	Video / DC driver			
Lumii	9 levels selectable			
White balance	ATW1 / ATW2 / Manual			
Electric shutter	Auto (1/60 to 1/100K sec.) / manual 46 steps (1/60 to 1/100K sec.)		Auto (1/50 to 1/100K sec.) / manual 46 steps (1/50 to 1/100K sec.)	
BLC	BLC1 /BLC2 /BLC3 /BLC4 /BLC5 /BLC6 / Off			
Aperture control	High / Mid / Low			
Chroma	9 levels selectable			
OSD	Yes			
Intelligent traffic mode	Traffic 1 20 to 110 km/hr 12 to 68 mph	Traffic 2 90 to 180 km/hr 56 to 112 mph	Traffic 3 20 to 110 km/hr 12 to 68 mph	Traffic 4 0 to 20 km/hr 0 to 12 mph
Headlight suppression	10 levels selectable			
Fog penetration	6 levels selectable			
Shadow adjustment	On / Off			
Digital Noise Reduction(DNR)	Off / 2DNR / 3DNR			
Mirror	On / Off			
Flickerless	On / Off			
Remote control	Yes (RS485)			
Video output	1Vpp composite output, 75 ohm			
Mechanism				
Dimension (L x W x H)	422 x 174 x 145mm (16.6" x 6.9" x 5.7")			
Enclosure	Vandal-proof, side opening, IP67, vandal-proof, die-cast aluminum with stainless screw, salt resistance, with wall mount cable management bracket			
Weight	6 kg (13.22 lb)			
Application	Ceiling mount/Corner mount/Pole mount			
Environment				
Operating temperature	-30° ~ 50°			
Operating humidity	30% ~ 90% RH			
Storage temperature	-30° ~ 60°			
Protection Class	IP66/IP67			
Power supply				
Power requirement	AC24V	AC90 ~ 260 V	AC24V	-
Power consumption	45W (max. with heater&blower			
Ordering Information	SCR515PROHB-HN2	SCR515PROHB-HN7	SCR515PROHB-HP2	-

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