MESSOA®

Traffic Surveillance Camera Series

CatchAll™ II, Sees All

The Full Range of Traffic Surveillance Cameras: IP and CCTV Ready!

MESSOA provides a full range of dedicated traffic surveillance cameras, including the industry's leading megapixel network cameras and CCTV cameras, to help its clients overcome many challenges they may meet in traffic surveillance, ideally for intersections, freeways, city, parking areas, ports, metros, railways and tunnels.

CatchAll™ II Engine

CatchAll™ II is MESSOA's latest technology for optimizing video processing in traffic surveillance cameras. CatchAll™ II builds on the strengths of the original CatchAll™ technology, further enhancing its powerful surveillance capabilities and functionality. CatchAll™ II introduces a range of new intelligent functions, including 3D noise reduction and WDR. And its industry-leading fog-penetration technology further enhances the effectiveness by enabling the camera to recover real color images from foggy or smoky video streams. MESSOA offers two types of cameras for long-range/high-speed (NCR536/SCR515PRO/SCR510) and close-range/low-speed (SCR505/SCR506/SCR506R) for various applications. It provides users with the most effective solution on the market for applications ranging from traffic monitoring, law enforcement, boarder control and under-vehicle inspections to gated communities, toll booths, harbors and parking lots. MESSOA presents a superior next-generation traffic solution that delivers outstanding traffic-surveillance performance.

Built-in CatchAll™ II engine

MESSOA designed the CatchAll™ II engine, an innovative technology for optimized video processing, to deliver clear color overviews and razor-sharp number-plate shots of speeding vehicles to external recognition software regardless of the setting or lighting conditions. The technology also enables cameras to ignore extraneous information on number plates and even eliminates problems related to oncoming headlights. The CatchAll™ II Engine is now standard on MESSOA's traffic cameras.
 Please visit www.messoa.com for more details.

Conventional problems in traffic surveillance

Speeding Vehicles

Sever Weather Conditions

Oncoming Headlights

Non-reflective Plates

Colorful Plate Backgrounds

Fog Penetration

Headlight Suppression

CatchAll™ II technology enables the camera to suppress highbeam headlights and capture crisper, clearer images for identification.

Conventional   MESSOA
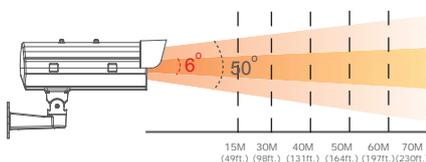
Outstanding Lumii™II technology

MESSOA's patented Lumii™ II technology is a new technology that increases sensitivity and reduces video noise in low-light conditions. MESSOA plate-capture cameras utilize this technology to deliver clearer images in low-light conditions, reducing back-end costs. Lumii™ II integrates seamlessly with IR illuminators.

High-performance, energy-saving IR LED

Powerful IR functionality and IR-corrected lenses deliver perfect image captures and outstanding images all day long. When the surrounding lighting is too low for video surveillance, the IR LED is turned on automatically to provide additional light. Exceptional single-control lighting technology helps reduce power consumption by up to 30-40% and extends LED life.

15M   30M   40M   50M   60M   70M
(49ft.) (98ft.) (131ft.) (164ft.) (197ft.)(230ft.)

Note:IR view coverage 6⁰ / 50⁰

Solid housing ensures reliability

The housing is made of tough die-cast aluminum and 6mm tempered glass cover. The advantages of die-cast are vandal-proof and excellent adhesion. Powder coating surface realizes salt-damage resistance.

Water-proof   Vandal-proof

SCR505/SCR510 high-contrast plate-capture cameras

ANPR cameras must be able to capture high-contrast images of reflective plates when used in conjunction with external License Plate Recognition (LPR) software. MESSOA offers two types of cameras for long-distance/high-speed and close-range/low-speed applications. The SCR510, which features a built-in 1/2" B&W CCD, is designed for capturing plates on vehicles travelling up to 180km/h (112mph). The SCR505 is a cost-effective option for capturing close range (3–8M; 10-27 ft.) images on vehicles travelling up to 90km/h (56mph).

Ultra-clear images

The camera's high-sensitivity Sony CCD is an ideal match for LED-based capture systems and provides ultra clear images of up to 600TVL.

Front view

MESSOA

Conventional

(Recording resolution:D1)

Rear view

Conventional

(Recording resolution:D1)

ANPR/LPR applications

The SCR505/SCR510 is intended for LPR (License Plate Recognition)/ANPR (Automatic Number Plate Recognition) Applications.

- IR range:15M (49ft.) / 70M (230 ft.)
- Capture range (w/external software): 3~8M(10-27 ft.) /
  15-25M (49-82 ft.)

SCR505/SCR510 could overcome oncoming headlight and provides high-contrast image for your applications in need of recognition software.

NCR536/SCR515PRO/SCR506/SCR506R color-overview plate-capture cameras

ANPR cameras do not perform well when simultaneously capturing license plates and monitoring the surroundings. We therefore offer this series which provide comprehensive traffic surveillance through a combination of plate-capture and color-overview technology.

Intelligent Traffic Modes SCR515PRO

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.

Fog Penetration

Cameras equipped with MESSOA's fog penetration technology peer through fog and smoke to recover real color images from foggy or smoky video streams. The technology greatly enhances a camera's identification ratio by delivering more information-rich imagery.

Conventional   MESSOA

Exceptional video quality

- High resolution: 600TVL at color mode
- With Lumii™ II Technology inside, the camera lights objects uniformly to deliver
exceptional video quality in low light conditions. It facilitates identification by making images clearer and brighter while also reducing image noise.

600 TVL

Conventional   MESSOA

Scheduled ICR Day/Night Switching

When subjected to external lighting changes like headlights, sensor-based switches can accidently change modes. This causes cameras to capture b/w images in daylight and color images at night. To prevent this, users can set up a schedule to switch between color mode and b/w mode. For example, set the camera to switch to color mode at 7:00AM and switch to b/w mode automatically at 7:00PM. Scheduled switching ensures that the camera remains unaffected by external factors and continues to capture images in the correct mode.

Day mode   Night mode

Wide Dynamic Range (WDR)

Wide dynamic range optimizes an image to ensure that dark areas are more visible while retaining detail in bright areas. WDR is ideal for scenes where objects are difficult to recognize due to severe backlight or shadows. Places like bank entrances tend to be under lit or over lit. A typical camera would produce an image where a person in the dark area could hardly be recognized, whereas WDR cameras produce clear details not only of the person in the foreground but also of the background.

Conventional   MESSOA

3D DNR

MESSOA's 3D noise reduction technology is a powerful tool for reducing image noise that produces extremely clear images even in very dim lighting conditions, enabling efficient use of back-end storage capacity.

Conventional   MESSOA

CatchAll™ II Series

specifications

Model Name	NCR536	SCR515PRO	SCR510
Camera Type	IP	CCTV	CCTV
Outdoor use	■	■	■
Clear images for external LPR software (non-reflective plates)	■	■	
High-contrast images for external LPR software (reflective plates)			■ (higher license plate recognition rate)
License plate capture	■	■	■
D/N overview	■	■	
IR visible distance	70M (230 ft.)		
Capture range	Suggested distance for overview: 15-50M (49-164 ft.); Suggested distance for plate capture: non-reflective plate 10-20M (33-66 ft.); reflective plate 15-25M (82-115 ft.)	Suggested distance for overview: 15-50M (49-164 ft.); Suggested distance for plate capture: non-reflective plate 10-25M (33-82 ft.); reflective plate 30-45M (98-151 ft.)	Suggested distance for external LPR software: 15-25M (49-82 ft.)
Headlight Suppression	■	■	■
Scheduled D/N	■	■	
Fog Penetration		■	
3D DNR		■	
WDR		■	
Intelligent Traffic Mode		■	
Max Speed	200 km/h (124 mph)		
Suggested applications	Highways, toll stations, streets		

Model Name	SCR505	SCR506	SCR506R
Camera Type	CCTV	CCTV	CCTV
Outdoor use	■	■	■
Clear images for external LPR software (non-reflective plates)		■	
High-contrast images for external LPR software (reflective plates)	■ (higher license plate recognition rate)		■
License plate capture	■	■	■
D/N overview		■	■
IR visible distance	15M (49 ft.)		
Capture range	Suggested distance for external LPR software: 3-8M (10-27 ft.)	Suggested distance for overview: 3-8M (10-27 ft.); Suggested distance for plate capture: (non-reflective plate) 3-8M (10-27 ft.)	Suggested distance for overview: 3-8M (10-27 ft.); Suggested distance for plate capture: (reflective plate) 3-8M (10-27 ft.)
Headlight Suppression	■	■	
Scheduled D/N			
Fog Penetration			
3D DNR			
WDR			
Intelligent Traffic Mode			
Max Speed	90 km/h (56 mph)	30km/h (19 mph)	
Suggested applications	Parking, entrances, barriers, access control		