

### Key Features

- Extreme's proprietary DHC-Imaging™ technology for definitive high-contrast license plate capture
- Second camera provides overview vehicle images that show shape, color and other vehicle details.
- Precision engineered optics captures plates from vehicles moving up to 100mph (~160kph) for high speed applications
- Metaphase-LEDs deliver powerful infrared illumination for effective license plate capture up to 75ft
- Advanced ambient rejection technology solves problems related to glare from sunlight, headlights and high-beams
- 600TVL 1/2" LXR CCD for excellent license plate capture under IR
- 480TVL 1/3" LXR CCD for color overview vehicle image
- 24/7 license plate capture in day or dark conditions
- Energy efficient operation at 12VDC or 24VAC
- Installer-friendly design suitable for harsh weather conditions
- Long-life LEDs save time and money by eliminating bulb changes
- High-contrast DHC-Imaging™ allows optimal DVR integration or Automatic License Plate Recognition (ALPR) performance
- DHC-Imaging™ technology delivers images of both conventional plates and Digital License Plates (DLPs)

### Product Description

REG-D1 - featuring DHC-Imaging™ - delivers advanced performance license plate capture for technical surveillance and represents the third generation of license plate capture solutions from Extreme CCTV. Combining Extreme's latest proprietary technology, DHC-Imaging™ integrates advances in optics, infrared illumination and Ambient Rejection technology to produce high-contrast license plate images characterized by unmatched clarity. Simultaneously, a second camera captures color overview images of vehicles for additional video evidence.

Using solid-state Metaphase-LEDs, REG-D1 achieves an operational range from 12ft to 75ft, previously unattainable for any LED-based capture system. Combined with Extreme's Ambient Rejection technology, REG-D1 provides high-contrast license plate capture across the complete spectrum of ambient lighting conditions from total darkness to direct glare from sunlight or high-beams.

Consisting of a 1/2" LXR CCD, DHC-Imaging™ technology captures plates from vehicles moving up to 100mph (160kph). REG-D1's breakthrough speed capability now enables effective license plate capture for highway and other high speed applications. Additionally, DHC-Imaging™ has capture capability for not only conventional plates, but also Digital License Plates (DLPs). A 1/3" LXR CCD equipped with a 5-50mm VF lens captures overview vehicle images in 480TVL color.

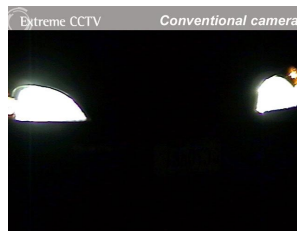
REG-D1 is housed in a weather-sealed unit compliant to NEMA4, proven for successful application in extreme environments. The high-efficiency Metaphase-LED array eliminates the need for routine bulb changes while allowing REG-D1 to operate at either 12VDC or 24VAC.

REG-D1 integrates seamlessly with industry standard DVRs, IP video servers and wireless broadband equipment. The DHC-Imaging™ technology is precision engineered to deliver high-contrast images for intelligent software platforms such as REG-ALERT for Automatic License Plate Recognition (ALPR) applications.

### Product Images



REG-D1 delivers definitive high-contrast images of license plates. Shown here with EXMB.028B and EXMB.017B bracketry.



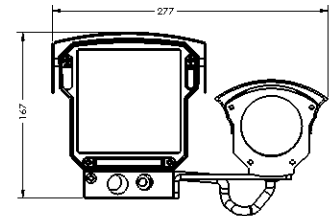
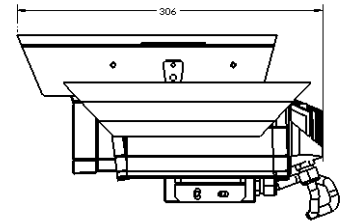
The DHC-Imaging™ technology in REG-D1 captures plates from vehicles moving at up to 100mph under any lighting conditions. A second color camera delivers an overview image of the vehicle that shows shape, color and other vehicle details.

### Applications

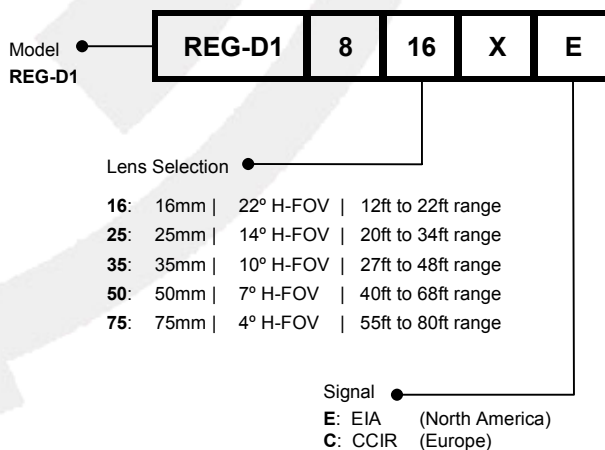
- Government buildings
  - Traffic monitoring
  - Borders
  - Parkades
  - Toll Booths
  - Airports
  - Hotels
  - Highways
  - Private estates
  - Law enforcement
  - 12VDC or 24VAC environments
  - Digital License Plates (DLP)
- Automatic License Plate Recognition (ALPR) applications

## Specifications

REG-D1 License Plate Capture with DHC-Imaging™					
<b>General Specifications</b>					
CCDs	License Plate Capture CCD		Color Overview CCD		
Sensor	1/2" SX800 Interline LXR CCD		1/3" CX600 Interline LXR CCD		
Resolution	600 TVL		480 TVL		
Effective Pixels	EIA: 811 (H) x 508 (V)		NTSC: 811 (H) x 508 (V)		
S/N Ratio	Greater than 48dB		Greater than 48dB		
Video Output	High-contrast, 1 V p-p @ 75 ohm		1 V p-p @ 75 ohm		
Sensitivity	Zero lux - works in total darkness		0.1 Lux at F1.2		
Lens	Select from below		Varifocal 5-50mm with auto-iris		
Infrared Illumination	850nm				
LEDs	Metaphase-type LEDs, high-efficiency array				
Power Requirements	12VDC, 3.0A or 24VAC, 1.5A				
Power Consumption	Maximum 27W (2.3A @ 12VDC or 1.2A @ 24VDC)				
Color	Black standard				
Construction	Robust cast and extruded aluminum, NEMA 4 compliant				
Operating Temperature	-50°C to 50°C   -58°F to 122°F				
Environmental	Integral heater and sunshield				
Weight	6.2 kg   13.7 lbs				
Dimensions	383mm L x 277mm W x 283mm H   15.1" L x 10.9" W x 11.1" H				
Bracketry	Not included. Select from optional accessories				
Power Supply	Not included. Select from optional accessories				
<b>Lens Selection for License Plate Capture CCD</b>					
Monochrome Lens Options	16mm	25mm	35mm	50mm	75mm
Horizontal Field of View	22°	14°	10°	7°	4°
Operational Range	12-22ft	20-34ft	27-48ft	40-68ft	55-80ft



## Part Numbers



## Optional Accessories

- REG-PS1** Power Supply 120VAC to 12VDC or 24VAC (w/ auxiliary output for color overview camera)
- [EXMB.028](#) Cable Managed Wall Bracket
- [EXMB.029](#) U-Bracket
- [EXMB.015](#) Pole Mount Adapter
- [EXMB.017](#) Wall Mount Adapter
- [EXMB.061](#) Pole Top Bracket

**Note:**  
 Extreme CCTV power supply units for in-field REG-DCxxx, REG-SLxxx models and existing cabling may be used with REG-D1.