

Digital Watchdog License Plate Recognition Camera Series

A&E Specifications
Security System

Masterformat® Numbers and Titles

28 00 00 ELECTRONIC SAFETY AND SECURITY

28 20 00 ELECTRONIC SURVEILLANCE

28 23 00 VIDEO SURVEILLANCE

28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

PART 1: GENERAL

1.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free technical support phone number from the manufacturer. The phone number shall allow for technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.
- D. All systems and components shall be provided with an explicit manufacturer warranty.

1.02 SUMMARY

- A. The Digital Watchdog License Plate Recognition (LPR) Camera has been engineered to deliver the best performance in capturing license plates in any extreme light conditions. Its plate recognition technology guarantees consistent, reliable plate capture both day and night. The 6 to 50 millimeters vari-focal auto iris lens provides unquestionable 560 TVL images from a range of 13 to 30 feet. The LPR camera also comes with the HME technology to mask overly bright lights that prevent the camera from capturing clear images to the license plates.

1.03 REFERENCES

- A. National Television System Committee (NTSC)
- B. Phase Alternation by Line (PAL)
- C. Conformity for Europe (CE)
- D. Federal Communications Commission (FCC)

- E. Restriction of Hazardous Substances (RoHS)

1.04 DEFINITIONS

- A. No Substitutes: The exact make and model number identified in this specification shall be provided without any exceptions.
- B. Or Equal: Any item may be substituted for the specified item provided that in every technical sense, the substituted item provides the same or better capability and functionality.
- C. Or Approved Equal: A substitute for the specified item may be offered for approval by the Manufacturer. The proposed substitution must, in every technical sense, provide the same or better capability and functionality as the specified item.

1.05 SUBMITTALS

- A. Manual
- B. Specification Sheet
- C. Brochure

1.06 QUALITY ASSURANCE

- A. With engineering and manufacturing facilities in Seoul, Korea and assembly in the United States, DW offers a level of specialty in the manufacturing and deployment of analogue and IP video security technology that your business can rely on. In addition to our proven product offerings, we have taken service and technology to the next level with a substantial investment in additional skilled industry professionals, online service capabilities, and application support. We offer technical assistance from Monday to Friday 8:30 AM to 8:00 PM EST via a toll-free telephone number at no extra charge.

1.07 DELIVERY, STORAGE, HANDLING

- A. General: Delivery, storage, and handling of the LPR camera shall be in accordance with the manufacturer's recommendations.
- B. Ordering: The manufacturer's ordering instructions and lead-time requirements shall be followed in order to avoid installation delays.
- C. Delivery: The LPR camera shall be delivered in the manufacturer's original, unopened, undamaged container with identification labels intact.
- D. Storage and Protection: The LPR camera shall be stored and protected from exposure to harmful weather conditions and at the environmental conditions recommended by the manufacturer.

1.08 WARRANTY

- A. For a period of two (2) years from the date of original purchase, if the LPR camera is determined to be defective, the Warrantor will repair or replace the unit with new or refurbished product at its option, at no charge.
- B. In addition, the Warrantor will supply replacement parts for a period of two (2) years. To obtain warranty or out of warranty service, please call a technical support representative at 1-866-446-3595 extension 242 Monday through Friday from 9:00 AM to 5:00 PM EST.
- C. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered. The warranty only covers failures due to defects in materials and workmanship which arise during normal use. This warranty does not cover damage which occurs in shipment or failures which are caused by products not supplied by the Warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, rental use of the product or service by anyone other than an authorized repair facility or damage that is attributable to acts of God.
- D. For more information on Warranty, please go to www.Digital-Watchdog.com.

PART 2: PRODUCTS

2.01 OUTDOOR, LICENSE PLATE RECOGNITION BULLET IR CAMERA

- A. The Digital Watchdog LPR camera shall be equipped with a 1/3" Sony Super II HAD CCD.
- B. The LPR camera shall produce 560 TV Lines in the horizontal direction.
- C. The LPR camera shall have an auto iris vari-focal lens. The lens shall offer a focal length that varies from 6 to 50 millimeters. The lens shall detect the amount of light entering the lens and automatically open/close the iris to maintain appropriate exposure.
- D. The LPR camera shall capture unquestionable images of license plates from a range of 13 to 30 feet.
- E. The LPR camera shall utilize a plate recognition technology that captures license plates up to 50 miles per hour. The plate recognition technology guarantees consistent, reliable plate capture both day and night. The LPR camera shall be engineered to deliver the best performance in capturing license plates in any extreme light conditions. The LPR camera shall always be in black-and-white and shall only be used to capture license plates.

- F. The LPR camera shall include an ICON-driven OSD (On-Screen Display) menu with a built-in joystick that will make programming quicker and easier.
- G. The LPR camera shall have a double arm metal bracket mount that allows the camera to adjust 360 degrees.
- H. The LPR camera shall be quick and easy to install.
- I. The LPR camera shall allow user to adjust the focus of the lens and the distance without opening the casing of the camera, in case of severe weather conditions.
- J. The LPR camera shall include a secondary video-BNC output with a cable for easy installation.
- K. The LPR camera shall be outdoor/environmentally rated. The LPR camera shall also be vandal and tamper resistant.
- L. The LPR camera shall meet or exceed the following design and performance specifications.

2.02 CAMERA SPECIFICATIONS

A.	Minimum Scene Illumination:	0.00 Lux
B.	Lens Type:	Vari-focal Auto Iris Lens
C.	Focal Length:	6 ~ 50 millimeters
D.	Lens Operation:	
	Iris	Automatic (DC Drive)
	Focus	Manual
	Zoom	Manual
E.	Electronic Shutter Range:	Auto
		1/50 (PAL) or 1/60 (NTSC)
		FLK
		1/250~1/100000
		SENS_UP (x2~x256)
F.	BLC/HME:	Off / BLC / HME
G.	AGC:	Off / Low / Middle / High
H.	Starlight:	Off / Auto (x2~x256)
I.	Mirror:	Off / Mirror / V-Flip / Rotate
J.	Sharpness:	0~31
K.	Gamma:	0.05~1.00
L.	Freeze:	Off / On
M.	Negative:	Off / On
N.	3D-DNR:	Off / On
O.	DRC:	Off / Indoor / Outdoor
P.	Privacy:	Off / On (6 Programmable Zones)
Q.	On Screen Display:	Built-in
R.	Joystick:	Built-in for OSD Control

2.03 VIDEO SPECIFICATIONS

A.	Imaging Device:	Super HAD II CCD
B.	Image Size:	1/3-inch
C.	Signal System:	NTSC or PAL
D.	Total Pixels:	811 X 508 (NTSC)
E.	Effective Pixels:	768 X 494 (NTSC)
F.	Scanning System:	525 Lines, 2:1 Interlace
G.	Horizontal Frequency:	15,734 Hz
H.	Vertical Frequency:	59.94Hz
I.	Sync System:	Internal
J.	Horizontal Resolution:	560 TV Lines
K.	Video Output:	1.0V [p-p] Composite Output, 75 Ohm
L.	Signal-to-Noise Ratio:	52dB

2.04 ELECTRICAL SPECIFICATIONS

A.	Port:	
B.	Cable Type:	Secondary Video BNC Output Cable
C.	Power Requirement:	Auto-Sensing Dual Voltage: 12V DC / 24V AC
D.	Power Consumption:	12V DC: 165mA / 24V AC: 360 mA 12V DC: 4.90 Watts / 24V AC: 4.96 Watts

2.05 ENVIRONMENTAL SPECIFICATIONS

A.	Environment:	Outdoor
B.	Operational Temperature:	-10°C ~ +55°C (14°F ~ 131°F)
C.	Operational Humidity:	Less than 90%

2.06 MECHANICAL SPECIFICATIONS

A.	Construction:	Metal Case
B.	Mount:	Double Arm Metal Bracket with 4 Screw Holes
C.	Dimension:	85.4 (Height) X 231.5 (Width) millimeters 3.36 (Height) X 9.11 (Width) inches
D.	Unit Weight:	2.2 pounds

2.07 CERTIFICATIONS

A.	CE
B.	FCC
C.	RoHS
D.	Meets Nema Type and IP66 Standards

2.08 WARRANTY

- A. 2 Years

2.09 MODEL NUMBERS

- A. DWC-LPR650

(Written February 2, 2011)

*Digital Watchdog is constantly developing product improvements. We reserve the right to modify product design and specifications without notice and without incurring any obligation.