

Digital Watchdog OMNI-Plus Camera B2382TIR

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. Digital Watchdog's OMNI-Plus Series is powered by our Infinity DSP technology and OMNI-Focus lens. Our Infinity DSP technology offers features like Star-Light, EWDR, Smart IR, and DIS to help produce clear images, and our OMNI-Focus lens simplifies field of view adjustment by utilizing three lenses to view fore-, mid-, and background as one. Together they offer a camera that is crisp, clear, and always in focus.

1.03 SUBMITTALS

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

1.04 REFERENCES

- A. National Television System Committee (NTSC)
- B. Conformity for Europe (CE)
- C. Federal Communications Commission (FCC)
- D. Restriction of Hazardous Substances (RoHS)

1.05 QUALITY ASSURANCE

- A. With engineering and manufacturing facilities in Seoul, Korea and distribution and product support 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.

1.06 DELIVERY, STORAGE, HANDLING

- A. General: Delivery, storage, and handling of the Digital Watchdog 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 Digital Watchdog Camera shall be delivered in the manufacturer's original, unopened, undamaged container with identification labels intact.
- D. Storage and Protection: The Digital Watchdog Camera shall be stored and protected from exposure to harmful weather conditions and at the environmental conditions recommended by the manufacturer.

1.07 WARRANTY

- A. LABOR: For a period of five (5) years and one (1) year on LED from the date of original purchase, if the Digital Watchdog 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. PARTS: In addition, the Warrantor will supply replacement parts for a period of five (5) years and one (1) year on LED. To obtain warranty or out of warranty service, please call a technical support representative at 1-866-446-3595 Monday through Friday from 8:30 AM to 8:00 PM EST.

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.

- C. LIMITS AND EXCLUSIONS: There are no express warranties except as listed above. The Warrantor will not be liable for incidental or consequential damages, including without limitation or damage to recording media, resulting from the use of these products or arising out of any breach of the warranty. All express and implied warranties, including the warranties of merchantability and fitness for particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state.

PART 2: SPECIFICATIONS

2.01 FEATURES

- A. The Digital Watchdog OMNI-Plus Bullet Camera shall be equipped with a 1/3" Sony Super II HAD CCD. The OMNI-Plus Bullet Camera shall produce 560 TV Lines in the horizontal direction for color images and 580 TV Lines for black-and-white images.
- B. The OMNI-Plus Bullet Camera shall have an auto iris OMNI-Focus lens that utilizes three lenses to view fore-, mid-, and background as one. The lens shall offer a focal length that varies from 2.9 to 8.5 millimeters. The lens shall detect the amount of light entering the lens and automatically open/close the iris to maintain appropriate exposure. When motion is detected in a viewing area, the lens shall optically zoom in up to 3X for a programmable period of time and then return to its normal condition.
- C. The OMNI-Plus Bullet Camera shall be built with IR illuminators. The IR illuminators shall allow the camera to operate in complete darkness without being noticed by the human eye. The IR illuminators shall be able to brighten a distance of up to 70 feet. With Digital Watchdog's Smart IR technology which breaks down the video image into five zones, the IR shall be distributed evenly, preventing excessive illumination.
- D. During the day, the OMNI-Plus Bullet Camera shall operate as a color camera, and the camera shall be capable of switching to black-and-white in low light conditions. The OMNI-Plus Bullet Camera shall be built with an IR cut filter. When the camera is operating in the day mode, the IR cut filter shall filter IR light for precise color reproduction. In the night mode, the filter shall be removed for greater light sensitivity.
- E. The OMNI-Plus Bullet Camera shall be built with the 3D-DNR (3D Digital Noise Reduction) feature that filters the noise in video images, especially in low light conditions. The feature shall allow the camera to produce more color at night and to reduce the amount of storage space required to record the video.
- F. The OMNI-Plus Bullet Camera shall be built with a DSS (Digital Slow Shutter) feature that increases the length of time the shutter remains open to collect any additional ambient light, illuminating typically dark environments.
- G. The OMNI-Plus Bullet Camera shall be built with a EWDR (Electronic Wide Dynamic Range) feature that helps to get detailed information from the dark part of the image without saturation from the bright part by combining high shutter speed exposure in bright areas and low shutter speed exposure in dark areas into one clear image.
- H. The OMNI-Plus Bullet Camera shall be built with a DIS (Digital Image Stabilizer) technology that removes the jitters caused by movement or vibrations. This feature shall reduce the amount of HDD Space needed to store recorded data.
- I. The OMNI-Plus Bullet Camera shall be able to mask overly exposed light with its HME (Highlight Masking Exposure) technology. HME shall especially be effective when trying to capture a license plate.
- J. The OMNI-Plus Bullet Camera shall include an ICON-driven OSD (On-Screen Display) menu with a built-in joystick that will make programming quicker and easier.
- K. The OMNI-Plus Bullet Camera shall be configurable for several foreign languages, other than English. The OMNI-Plus Bullet Camera shall include the following foreign languages: Korean, Japanese, Chinese, Russian, French, Spanish, and Italian.

- L. The OMNI-Plus Bullet Camera shall include a secondary video-BNC output with a cable for easy installation.
- M. The OMNI-Plus Bullet Camera shall be outdoor/environmentally rated. It also shall be vandal and tamper resistant. The OMNI-Plus Bullet Camera shall have an Ingress Protection rating of 66.
- N. The OMNI-Plus Bullet Camera shall meet or exceed the following design and performance specifications.

2.02 CAMERA SPECIFICATIONS

- A. Minimum Scene Illumination: 0.0 Lux
- B. Lens Type: OMNI-Focus 3X Motorized Zoom, Auto Iris Lens
- C. Focal Length: 2.9 ~ 8.5 millimeters
- D. Lens Operation:
 - Iris Automatic (DC Drive)
 - Focus Manual
 - Zoom Manual
- E. Brightness 0~99
- F. Electronic Shutter Range: 1/60
1/100FLC
1/120~1/100000
- G. BLC: OFF / ON
- H. Auto Gain Control OFF / LOW / MIDDLE / HIGH
- I. MAX_DR (EWDR): OFF / ON (0~20)
- J. Starlight: OFF / AUTO (X2~X256)
- K. Day & Night: True Day and Night
- L. Mirror: OFF / MIRROR / V-FLIP / ROTATE
- M. Sharpness: 0~49
- N. Gamma: 0.45~1.00 / USER
- O. Freeze: OFF / ON
- P. Negative: OFF / ON
- Q. 3D-DNR: OFF / LOW / MIDDLE / HIGH
- R. Side Light Compensation: OFF / ON
- S. HME: OFF / ON
- T. DIS: OFF / ON
- U. Privacy: OFF / ON (6 Programmable Zones)
- V. Motion Detection: OFF / ON
- W. Dead Pixel Cancellation: OFF / AUTO
- X. Protocol: Pelco-D
- Y. On Screen Display: Built-in
- Z. 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
- D. Total Pixels: 811 X 508
- E. Effective Pixels: 768 X 494
- F. Scanning System: 525 Lines, 2:1 Interlace
- G. Horizontal Frequency: 15,734 Hz
- H. Vertical Frequency: 59.94Hz
- I. Sync System: Internal / Line Lock
- J. Horizontal Resolution: 560 TV Lines (Color), 580 TV Lines (B/W)
- K. Video Output: 1.0V [p-p] Composite Output, 75 Ohm

L. Signal-to-Noise Ratio: 50dB

2.04 ELECTRICAL SPECIFICATIONS

A. Power Requirement: Auto-Sensing Dual Voltage: DC 12V / AC 24V
B. Power Consumption: DC 12V: 1.8, 150mA / AC 24V: 2.4W, 1.0A
C. Power Consumption (LED ON): DC 12V: 4.6W, 383.3mA / AC 24V: 4.9W, 204.2mA

2.05 ENVIRONMENTAL SPECIFICATIONS

A. Environment: Indoor / Outdoor
B. Operational Temperature: -10°C ~ +55°C (14°F ~ 131°F)
C. Storage Temperature: -20°C ~ +70°C (-4°F ~ 158°F)
D. 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. 5 Years, 1 Year on LED

2.09 MODEL NUMBERS

A. DWC-B2382TIR

(Written May 12, 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.