

## Digital Watchdog Super Speed Dome PTZ39X

---

### 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

The PTZ39X is a high performance, Super Speed Dome camera built with a 39X zoom lens and our distinguished Star-Light technology. Various functions of the camera can be controlled over the network, by enhancing it into an IP PTZ camera with our IP module that fits perfectly into our camera mount box.

### **1.03 SUBMITTALS**

- A. Manual
- B. Specification Sheet
- C. Brochure
- D. Magazine Advertisement

### **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)
- E. Waste Electrical & Electronic Equipment (WEEE)

### **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 two (2) years and one (1) year on PTZ Zoom Module 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 two (2) years and one (1) year on PTZ Zoom Module. 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 PTZ Dome Camera shall be equipped with a 1/4" Ex-View HAD Progressive Scan CCD.
- B. The PTZ Dome Camera shall produce 560 TV Lines in the horizontal direction for color images and 600 TV Lines for black-and-white images.
- C. The lens shall offer a focal length that varies from 3.4 to 132.6 millimeters. The PTZ Dome Camera shall provide 39X Optical Zoom and 12X Digital Zoom.
- D. The PTZ Dome Camera shall offer a maximum panning speed of 360 degrees per seconds. Digital Watchdog's Vector Drive Technology shall accomplish pan and tilt motions in the shortest path and shall reduce time for the camera to move to its target view. The PTZ Dome Camera shall offer a panning speed as low as 0.05 degrees per second, making it easier for users to set a desired target view.
- E. During the day, the PTZ Dome Camera shall operate as a color camera, and the camera shall be capable of switching to black-and-white in low light conditions. At low light conditions, the PTZ Dome Camera shall use ambient IR light to capture black-and-white images. The PTZ Dome 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.
- F. The PTZ Dome 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.
- G. The PTZ Dome Camera shall include Digital Watchdog's Star-Light technology, which offers super low light imaging for any application.
- H. The PTZ Dome Camera shall be built with a WDR (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.
- I. The PTZ Dome 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.

- J. The PTZ Dome Camera shall be built with 8 sensor input and 4 relay output.
- K. The PTZ Dome Camera shall capable of being controlled over the network with PTZ39X accessory DWC-P39IP (IP Module). The H.264 Linux embedded module shall offer up to 30 frames per second in all resolutions and shall include an SDHC memory card slot. The web viewer shall include features like Auto Map, Virtual Joystick, Motion Tracking, and Power PTZ.
- L. The PTZ Dome Camera shall include an ICON-driven OSD (On-Screen Display) menu with a built-in joystick that will make programming quicker and easier.
- M. The PTZ Dome Camera shall be configurable for several foreign languages, other than English. The OMNI-Plus Vandal Dome Camera shall include the following foreign languages: Spanish, French, Dutch, Italian, Portuguese, and Russian.
- N. The PTZ Dome Camera shall support the following communication protocols: Pelco-D, Pelco-P, Samsung, Panasonic, Kalatel, and American Dynamics.
- O. The PTZ Dome Camera shall be outdoor/environmentally rated. It also shall be vandal and tamper resistant. The PTZ Dome Camera shall have an Ingress Protection rating of 66.
- P. The PTZ Dome Camera shall be available with a wide range of mounting options to fit your surveillance needs. Mounting options shall include pendant, short pendant, wall, in-ceiling, pole, and corner mounts. The mount brackets shall include a built-in junction box.
- Q. The PTZ Dome Camera shall be quick and easy to install. Video, Power, RS485, Alarm Output, Sensor Input—all the necessary cables shall connect to the PTZ Dome Camera through the junction box of the mount bracket.
- R. The PTZ Dome Camera shall meet or exceed the following design and performance specifications.

## 2.02 CAMERA SPECIFICATIONS

- |    |                             |  |
|----|-----------------------------|--|
| A. | Minimum Scene Illumination: | F1.6: 1.2 Lux [Color], 0.12 Lux [B/W]                                |
| B. | Lens Type:                  | Auto Iris Lens   |
| C. | Focal Length:               | 3.4 ~ 132.6 millimeters  |
| D. | Zoom:                       | 39X Optical Zoom, 12X Digital Zoom                                   |
| E. | Angle of View:              | Horizontal 57.54° (W) ~ 1.56° (T)<br>Vertical 44.44° (W) ~ 1.16° (T) |
| F. | Digital Zoom:               | OFF / ON   |

G.	Focus:	AUTO / MANUAL / SEMI-AUTO
H.	Iris:	ALC (Automatic) / MANUAL
I.	White Balance Mode:	OFF / ATW1 / ATW2 / AWC / 3200K / 5600K
J.	Day & Night:	AUTO (IR Cut Filter) / COLOR / BW
K.	Motion:	S.SLOW / SLOW / NORMAL / FAST / F.FAST
L.	Shutter Speed:	1/60 ~ 1/10K
M.	Sens-Up:	OFF / AUTO (X2~X256)
N.	Backlight:	OFF / BLC / WDR
O.	Auto Gain Control	VERY LOW / LOW / MIDDLE / HIGH / VERY HIGH / USER 1~16 / FIX 1~16
P.	Brightness:	LOW / MIDDLE / HIGH
Q.	DIS:	OFF / ON
R.	3D-DNR:	OFF / LOW / MIDDLE / HIGH / USER 1~16
S.	Privacy:	OFF / ON (12 Programmable Zones)
T.	Motion Detection:	Available
U.	On Screen Display:	Built-in
V.	Joystick:	Built-in for OSD Control

### 2.03 PAN / TILT SPECIFICATIONS

A.	Pan Range:	360° Endless
B.	Tilt Range:	0°~180° (Auto-Flip On), 0°~90° (Auto Flip Off)
C.	Speed:	360° per Second (Preset) 0.05°~360° per Second (Manual) 1°~180° per Second (Scan)
D.	Preset:	127 with Labels
E.	Pattern:	4, Maximum 1000 Commands for Each Pattern
F.	Scan:	8
G.	Group:	8, Maximum 20 Entries for Each Group
H.	Schedule:	7 Rules
I.	Other Functions:	Auto Flip, Auto Parking, Power-Up Action, etc.

### 2.04 COMMUNICATION SPECIFICATIONS

A.	Interface:	RS-485
B.	Protocol:	Automatic, Pelco-D, Pelco-P, Samsung, Panasonic, Kalatel, American Dynamics

**2.05 NETWORK SPECIFICATIONS (Available with DWC-P39IP)**

- A. Operating System: Linux Embedded
- B. Video Compression: Triple Codec: H.264, MPEG4, MJPEG
- C. Video Streaming: Multi-Streaming
- D. Resolution: 4CIF, CIF, QCIF
- E. Frame Rate: Maximum 30 Frames per Second in All Resolutions
- F. Image Settings: Quality, Brightness, Sharpness
- G. Audio Compression: Two-Way, G.711 PCM 16kHz
- H. Local Storage: SDHC Memory Card Slot
- I. Motion Detection: Notification through FTP, E-mail, Alarm Out, JPEG Recording
- J. Alarm: Pre-/Post-Alarm
- K. User Access: Maximum 5 Users
- L. Protocol:
  - IPv6: TCP/IP, HTTP, HTTPS, DHCP
  - DDNS: Free Public DDNS Services
- M. Web Viewer:
  - Supported OS: Windows 7, Vista, XP, 2000
  - Functions: Auto Map, Virtual Joystick, Motion Tracking, Power PTZ

**2.06 VIDEO SPECIFICATIONS**

- N. Imaging Device: EX View-HAD PS CCD
- O. Image Size: 1/4-inch
- P. Signal System: NTSC
- Q. Total Pixels: 811 (H) X 508 (V)
- R. Effective Pixels: 768 (H) X 494 (V)
- S. Horizontal Resolution: 560 TV Lines (Color), 600 TV Lines (B/W)
- T. Video Output: 1.0V [p-p] Composite Output, 75 Ohm
- U. Signal-to-Noise Ratio: 52dB

**2.07 ELECTRICAL SPECIFICATIONS**

- A. Power Requirement: AC 24V
- B. Power Consumption: 24.0W, 1.0A
- C. Power Consumption (HEATER ON): 57.0W, 2.38A

## **2.08 ENVIRONMENTAL SPECIFICATIONS**

- A. Environment: Indoor / Outdoor
- B. Operational Temperature: -45°C ~ +50°C (-49°F ~ 122°F)
- C. Operational Humidity: Less than 90%

## **2.09 MECHANICAL SPECIFICATIONS**

- A. Mount: Mount Bracket Sold Separately
- B. Material: Aluminum Die-Casting Body  
Polycarbonate Dome
- C. Dimension: 260 (Width) X 405 (Height) millimeters  
10.2 (Width) X 15.9 (Height) inches
- D. Unit Weight: 12.8 pounds

## **2.10 CERTIFICATIONS**

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

## **2.11 WARRANTY**

- A. 2 Year Limited Warranty  
2 Year for Junction Box, 1 Year for PTZ Zoom Module

## **2.12 MODEL NUMBERS**

- A. DWC-PTZ39X

## **2.13 ACCESSORIES**



A.	DWC-PTZ39XFM	PTZ39X with Flush Mount
B.	DWC-P39PM	Pendant Mount Bracket with Controller
C.	DWC-P39SPM	Short Pendant Mount Bracket with Controller
D.	DWC-P39WM	Wall Mount Bracket with Controller
E.	DWC-P39CNM	Corner Mount
F.	DWC-P39POLM	Pole Mount
G.	DWC-P39IP	IP Module
H.	DWC-P39IPPM	IP Module with DWC-P39PM
I.	DWC-P39IPSPM	IP Module with DWC-P39SPM
J.	DWC-P39IPWM	IP Module with DWC-P39WM

(Written May 26, 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.