

Digital Watchdog IP Megapixel Camera MPA20M

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 MPA20M MEGAPIX camera is a triple CODEC network camera that provides 1080P megapixel resolution at 30 frames per second. The camera's advances technologies like Electronic Day and Night and 3D-DNR will deliver the best images in any type of environment, and Power over Ethernet will simplify installation by connecting both power and network through a single cable.

Toll Free: 866 446 3595 / Fax: 813 888 9262

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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 two (2) years 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 expressed 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 expressed 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 MPA20M shall be equipped with a 1/2.7" Sony CMOS sensor.
- B. The MPA20M shall employ M-JPEG, MPEG-4 and H.264 compression. Users can chose one of three compression type.
- C. The MPA20M shall be designed with a built-in web server, such that standard web browser like, Internet Explorer or Firefox can be used to view the camera view without installing special viewer software. The operating system being required for viewing system should be Microsoft Windows 2000/XP/Vista/7. The minimum system requirement is Intel 2.0 GHz Pentium IV CPU, with 512MB RAM, decent display chip with 32MB display memory.
- D. The MPA20M shall have a Network Interface that is 10/100 Mbps Ethernet with RJ-45 connector.
- E. The MPA20M shall support dual voltage with POE(Class2) and DC12V
- F. The MPA20M shall have 3 user level settings, which are a) Super, b) Operator, and c) Viewer.
- G. The MPA20M shall have a maximum frame rate that can handle 30fps at 1920X1080 resolutions in M-JPEG, MPEG-4 and H.264 mode.
- H. The MPA20M employs dual CODEC that are capable of streaming out M-JPEG, MPEG-4 and H.264 simultaneously.
- I. The MPA20M shall have image sizes that are user selectable among 1920X1080,1280X720, 960X544, 800X448, 704X400, 640X352, 480X272, 320X176, 1440X1080, 960X720, 800X608, 704X528, 640X480, 480X368, 320X240
- J. The MPA20M shall have a manual shutter speed that can be adjustable among 1/30, 1/60, 1/120.
- K. The MPA20M shall have a digital slow shutter speed that can be selectable among 2X, 3X, 4X.
- L. The MPA20M has an ability for back light compensation
- M. The MPA20M shall support the following Network protocols: IPv4, IPv6, TCP/IP,UDP, HTTP, UPnP, RTSP/RTP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE and Onvif.
- N. The MPA20M shall utilize an event notification capability using SMTP.
- O. The MPA20M shall have user configurable port settings.
- P. The MPA20M shall be capable of limiting the bandwidth of Video output from 1800Kbps to 8Mbps.
- Q. The MPA20M shall be capable of overlaying time stamp and text caption over video image.
- R. The MPA20M shall be capable of auto FTP upgrade.
- S. The MPA20M shall be capable of IP address filtering to the inward access to the camera.
- T. The MPA20M shall be capable of 5 clients simultaneous camera view.

2.02 CAMERA SPECIFICATIONS

A. Minimum Scene Illumination: 0.01 Lux(B/W), 0.8 Lux(Color)

B. Lens Type: 4.3mm Fixed

C. Focal Length: 4.3mm

D. Lens Operation:

Iris Automatic
Focus Fixed
Zoom Fixed

E. Brightness 0~20
F. Electronic Shutter Range: 1/30
1/60

1/120 and Auto

Digital Slow Shutter OFF, 2X, 3X, 4X

G. BLC: OFF / ON
H. Auto Gain Control 0~20

I. Day & Night: AUTO, Day(Color) and Night(B/W)

J. Lenz mode Indoor, Outdoor

K. Mirror: OFF / ON
 L. Flip OFF / ON
 M. Sharpness: 0~10
 N. Chroma: 0~20

O. DNR: OFF / LOW / MIDDLE / HIGH

P. Privacy: OFF / ON (30 Programmable Zones)
 Q. Motion Detection: OFF / ON (12 Programmable Zones)

2.03 VIDEO SPECIFICATIONS

A. Imaging Device: Sony CMOSB. Image Size: 1/2.7"-inchC. Signal System: NTSC

D. Total Pixels: 2016 X 1108

2.04 NETWORK SPECIFICATIONS

A. LAN: 802.3 Compliance 10/100M
B. Supported Codec: H.264, MPEG4, MJPEG

C. Resolution 1920X1080 ~ 320X240

D. Frame Rate up to 30 fps

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E. IP version IPv4, IPv6

F. Protocol IPv4, IPv6, TCP/IP,UDP, HTTP, UPnP, RTSP/RTP, IGMP, SMTP,

FTP, DHCP, NTP, DNS, DDNS, PPPoE.

G. Onvif ver. 1.02

H. Web Viewer IE, Chrome, Firefox, Safari

I. CMS NxMS, Pivot

2.05 ELECTRICAL SPECIFICATIONS

A. Power Requirement: Dual Voltage: DC 12V / PoE(Class2)

B. Power Consumption 5.16W, 420mA

2.06 ENVIRONMENTAL SPECIFICATIONS

A. Environment: Indoor / Outdoor

B. Operational Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C} \ (-14^{\circ} \text{ F} \sim 131^{\circ}\text{F})$ C. Storage Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C} \ (-4^{\circ}\text{F} \sim 158^{\circ}\text{F})$

D. Operational Humidity: Less than 90%

2.07 MECHANICAL SPECIFICATIONS

A. Material: Aluminum - AL / ADC12-1

B. Dimension: 120 (diameter) X 55.7 (height) millimeters

C. Unit Weight: 0.728 lbs.

2.08 CERTIFICATIONS

A. CE

B. FCC

C. RoHS

2.09 WARRANTY

A. 2 Years.

2.10 MODEL NUMBERS

A. DWC-MPA20M

(Written OCT 15, 2012)

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

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