

Digital Watchdog Transporter Series Mobile Digital Video Recorders

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 19 DIGITAL VIDEO RECORDERS AND ANALOG RECORDING DEVICES

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 Transporter (TP) Series provide the cutting edge of mobile recording solutions for any type of transportation security application. This mobile DVR was built upon industrial specifications that offer the most reliable mobile solutions. These industrial specifications allow the DVR to withstand any harsh conditions, such as shock, vibration, and temperature. Explore our new Transporter, and enjoy the peace of mind from the most reliable in-vehicle technology.

1.03 REFERENCES

- A. National Television System Committee (NTSC)
- B. Conformity for Europe (CE)
- C. Federal Communications Commission (FCC)
- D. 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. Quick Setup Guide
- C. Specification Sheet
- D. 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 Transporter 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 Transporter shall be delivered in the manufacturer's original, unopened, undamaged container with identification labels intact.
- D. Storage and Protection: The Transporter 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 three (3) years from the date of original purchase, if the Transporter 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 three (3) 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.

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.

- D. For more information on Warranty, please go to www.Digital-Watchdog.com.

PART 2: PRODUCTS

2.01 FEATURES

- A. Digital Watchdog Transporter Mobile Digital Video Recorder (DVR) shall meet the requirements of business, government, and general security surveillance applications.
- B. The Transporter Mobile DVR shall be engineered for durability and expandability that offer the most reliable mobile solutions. The Transporter Mobile DVR shall be of a rugged, modular design that allows it to withstand any harsh conditions, such as shock, vibration, and temperature.
- C. The Transporter Mobile DVR shall incorporate an embedded H.264 Linux® operating system using a proprietary software application for control, management, and display. The Transporter Mobile DVR shall use H.264 compression algorithm in the video digitizing scheme and G723.1 compression algorithm in the audio digitizing scheme.
- D. The Transporter Mobile DVR shall be capable of live view, remote playback, file backup, and e-mail notification.
- E. The Transporter Mobile DVR shall offer recording at the following resolutions: CIF (352X240), 2CIF (720X240), and 4CIF (720X480).
- F. The Transporter Mobile DVR shall be built with G-Sensor Technology that enables it to record information like collision, unusual braking, acceleration, turn signals, etc.
- G. The Transporter Mobile DVR shall collect 4 channels of analog video and four channels of audio and digitize them for the purpose of display, archive, and requested distribution over a wireless network. Each channel of video data shall have the capability of being recorded, displayed, played back, archived, and distributed simultaneously across the network.
- H. The Transporter Mobile DVR shall offer remote network connectivity through an optional USB Modem and 3G Mobile Broadband Travel Router. The USB modem can be purchased with a monthly broadband plan from Verizon, T-Mobile, or equal. The Cradlepoint® 3G Mobile Broadband Travel Router, or equal, is recommended. The TRANSPORTER Mobile DVR shall provide automatic private IP addressing that will help setup a router automatically.
- I. The Transporter Mobile DVR shall work with Google Maps to record the coordinates of the vehicle at all times and to indicate this information with the speed being travelled onto the recorded image. Users shall also be able to access this information and shall be able to see the GPS location of a vehicle in real time along with the live video from the vehicle, through remote network connectivity.
- J. The Transporter Mobile DVR shall include a SMA type GPS antenna for proper reception of GPS data.
- K. The Transporter Mobile DVR shall be able to store vehicle information (company name, vehicle maker, vehicle model, registration number, license, and driver name).
- L. The Transporter Mobile DVR shall offer a feature that controls its bandwidth usage.
- M. The Transporter Mobile DVR shall offer multi-user access. There shall be an administrator and user level offered. The Transporter Mobile DVR shall have password protection for local and remote access.
- N. The Transporter Mobile DVR shall support two alarm in and two relay out functions. The Transporter Mobile DVR shall transmit event notifications to users via e-mail.

- O. The Transporter Mobile DVR shall support PTZ camera control through an RS-485 port using built-in protocols from several manufacturers.
- P. The Transporter Mobile DVR shall be equipped with either 500 GB or 1TB of hard disk drive. The HDD shall be removable.
- Q. The Transporter Mobile DVR shall provide a USB 2.0 port to connect external devices like hard drives and USB flash drives for backup and system upgrade. The TRANSPORTER Mobile DVR shall incorporate a second USB port created only for a USB mouse and shall be equipped with a USB mouse.
- R. The Transporter Mobile DVR shall support and be equipped with an IR remote control.
- S. The Transporter Mobile DVR shall include the Transporter Viewer, a central monitoring software that can manage up to 64 sites or cameras simultaneously.
- T. The Transporter Mobile DVR should be configurable for several foreign languages, other than English.
- U. The Transporter Mobile DVR system shall be easy to upgrade. Users shall be able to upgrade the system, using a USB flash drive.
- V. The Transporter Mobile DVR shall pass a Sine Vibration test and a Shock test established by IEC standards to optimize product design.
- W. The Transporter Mobile DVR shall include a customer 3-year limited warranty.
- X. The Transporter Mobile DVR shall meet or exceed the following design and performance specifications.

2.02 PHYSICAL SPECIFICATIONS

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|----|---------------|--|
| A. | Construction: | Steel Cabinet |
| B. | Finish: | Black Metallic |
| C. | Dimension: | 218 (Width) X 56 (Height) X 255 (Depth) millimeters 8.58 (Width) X 2.2 (Height) X 10.0 (Depth) inches |
| D. | Unit Weight: | 2.93 pounds without HDD |

2.03 ELECTRICAL SPECIFICATIONS

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|----|--------------------|-----------|
| A. | Power Supply: | Internal |
| B. | Power Requirement: | 12~36V DC |
| C. | Power Consumption: | 64 Watts |

2.04 ENVIRONMENTAL SPECIFICATIONS

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|----|--------------------------|--------------------------|
| A. | Operational Temperature: | 5°C ~ 40°C |
| B. | Operational Humidity: | 20 ~ 80%, Non-Condensing |
| C. | Storage Temperature: | -20°C ~ 60°C |
| D. | Storage Humidity: | 20 ~95% |

2.05 MECHANICAL SPECIFICATIONS

- A. System

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|----|-------------------------------|---|
| | 1. Operating System: | Linux Embedded |
| | 2. User Interface: | Front Panel, Remote Control Keypad, or USB Mouse |
| B. | Video | |
| | 1. Input: | 4 Channels |
| | 2. Output: | Composite |
| | 3. Video Decoding: | H.264 |
| | 4. Video Resolutions: | 720 X 480 (NTSC) |
| | 5. Frame Rate: | |
| | a. CIF: | 120fps |
| | b. 2CIF: | 60fps |
| | c. D1: | 30fps |
| | 6. Video Inputs / Connectors: | 4 BNC, 75 Ohms, 1.0 Vp-p |
| | 7. Video Output: | 1 CVBS |
| | 8. Display / Recording Speed: | Real Time |
| | 9. Display Modes: | Time 1, 4, PIP, Zoom |
| C. | Audio | |
| | 1. Input: | 4 Mic-In |
| | 2. Output: | 1 Line-Out |
| | 3. Audio Decoding: | G723.1 |
| | 4. Audio Bitrate: | |
| D. | Network | |
| | 1. Interface: | 10/100 Base-Tx Ethernet (RJ45) |
| | 2. Protocol: | Fixed IP, DHCP, DDNS |
| | 3. Transmission: | 120fps at CIF |
| | 4. Application: | Live Monitoring, Remote Playback, and File Backup |
| | 5. Web Browser: | Internet Explorer 7 or Higher |
| E. | Alarm | |
| | 1. Input: | 2 TTL |
| | 2. Output: | 2 Relay |
| F. | PTZ | |
| | 1. Control: | Pan / Tilt / Zoom / Focus / Iris |
| | 2. Interface: | Virtual Joy-Stick Control On-Screen by Mouse |
| | 3. Port: | RS-485 |
| G. | Auxiliary Interface | USB 2.0 |
| | | USB 1.1 for USB Mouse |
| H. | Recording Modes | Continuous, Sensor-Activated, Motion Detection |
| | | Pre- and Post-Alarm Recording |
| I. | Storage | Removable 500GB or 1TB HDD |
| | | SDD and SD Card Slot |
| | | USB 2.0 |
| J. | Remote Management | |
| | 1. Software: | Transporter Viewer CMS |
| | 2. Web (IE): | Live Monitoring, Playback, and System Configuration |

2.06 CERTIFICATIONS

- A. CE
- B. FCC
- C. RoHS
- D. IEC Shock and Sine Vibration Test

2.07 WARRANTY

- A. 3 Years, Parts and Labor

2.08 DIGITAL WATCHDOG MODEL NUMBERS

- A. DW-VMAX-TP500G
- B. DW-VMAX-TP750G
- C. DW-VMAX-TPSS120G

(Written June 15, 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.