

## **DGR100 - Architect's & Engineer's Specification**

The Digital Video Recorder shall be a Digimerge DGR100 stand-alone single channel model or equivalent. The DVR shall support both NTSC, at a minimum resolution of 720X486 and minimum record and display refresh rate of 60 IPS. The system shall utilize Wavelet (15:1) compression, with four selectable levels of compression / image quality, generating image file sizes of 12-15 KB on "basic", 20-25 KB on "normal", 30-35 KB on "high", and 40-45 KB on "best".

System and image data shall be stored on a removable, IDE hard drive with a maximum capacity of 120GB. Security shall be provided by both a physical key lock to prevent unauthorized HDD removal, and software password protection. The DVR shall provide one video input, composite 1V P-P / 75 ohms, and one video output, composite, 1V P-P / 75 ohms, via BNC connectors, one TTL alarm input, one N.O. contact alarm output, and shall alarm on video loss detection. One RS232/RS485 port shall be provided for communication with a standard PC at speeds from 1200 to 115,200 baud.

*The DVR shall support external multiplexer connectivity, and a switch output for synchronization.*

The DVR shall initiate recording based upon manual activation, alarm trigger (via TTL input), external trigger (via REC TTL input), and pre-set time schedules, and shall provide image search and playback based upon date and time, alarm event, and full list searching. The system shall provide on-screen display and support multiple date formats. Fast playback in forward and reverse shall be user selectable from 2X to 32X the normal playback speed. Slow playback in forward and reverse shall be selectable from 1/2X to 1/32X the normal playback speed.

The system shall operate from 90-240 VAC with a maximum power consumption of 27W, and shall have an operating temperature range of 5°C to 40°C (41°F to 104°F). The system shall not lose configuration data on power loss, and shall return to its previous state following a loss of power once power is restored. It shall be capable of rack mounting, and weigh not more than 5.2 kgs (11.5 lbs). The DVR shall be listed or carry approvals by the FCC, UL, CE, and ULC.

## **DGR101 - Architect's & Engineer's Specification**

The Digital Video Recorder shall be a Digimerge DGR101 stand-alone single channel model or equivalent. The DVR shall support both NTSC, at a minimum resolution of 720X486 and minimum record and display refresh rate of 60 IPS, and PAL at a minimum resolution of 720X576 and minimum record and display refresh rate of 50 IPS. The system shall utilize Wavelet compression, with four selectable levels of compression / image quality, generating image file sizes of 12-15 KB on "basic", 20-25 KB on "normal", 30-35 KB on "high", and 40-45 KB on "best".

System and image data shall be stored on a removable, 120 GB IDE hard drive for up to 2500 hours recording time. Security shall be provided by both a physical key lock to prevent unauthorized HDD removal, and software password protection. The DVR shall provide one video input, composite 1V P-P / 75 ohms, and one video output, composite, 1V P-P / 75 ohms, via BNC connectors, one TTL alarm input, one N.O. contact alarm output, and shall alarm on video loss detection. One RS232/RS485 port shall be provided for communication with a standard PC at speeds from 1200 to 115,200 baud. The DVR shall provide a single audio input, 1V P-P / 75 ohms, for recording audio to disk, and one audio output, 1V P-P / 75 ohms via BNC connectors.

The DVR shall initiate recording based upon manual activation, alarm trigger (via TTL input), external trigger (via REC TTL input), and pre-set time schedules, and shall provide image search and playback based upon date and time, alarm event, and full list searching, in both forward and reverse. The system shall provide on-screen display and support multiple date formats. Fast and slow playback shall be user selectable.

The system shall operate from 90-240 VAC with a maximum power consumption of 27W, and shall have an operating temperature range of 5°C to 40°C (41°F to 104°F). It shall be capable of rack mounting, and weigh not more than 5.2 kgs (11.5 lbs). The DVR shall be listed or carry approvals by the FCC, UL, CE, and ULC.

Revision History:  
20031221 - revised alarm triggering.