



## **Dynamic Workflow Solutions**

### **Event Recorder**

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## **Hardware and Software Specifications**

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## System Requirements and Firewall Permissions

Event Recorder is the world's leading event recording solution. This guide provides information on what hardware specification to install the application on.

### Server Hardware Requirements

The following table outlines the hardware and software requirements for the server portion of an Event Recorder installation. This is the system that will record and manage an event recorded by the solution.

	8 Camera Maximum	12 Camera Maximum
<b>Processor</b>	1x Intel Core i3	
<b>Memory<sup>1</sup></b>	8 GB RAM ECC	
<b>Internal Drive<sup>2</sup></b>	120 GB SSD	
<b>2<sup>nd</sup> Internal Drive<sup>2</sup></b>	2 x 4TB HDD (RAID 1)	2 x 6TB HDD (RAID 1)
<b>Network</b>	Gigabit Ethernet	
<b>Video</b>	Integrated Graphics	
<b>Monitor</b>	SVGA (800 x 600)	WXGA (1024 x 768)
<b>Operating System</b>	Windows 10 IoT Enterprise	
<b>Maximum Bit Rate<sup>3</sup></b>	192 Mbps	

<sup>1</sup> Error Code Correction (ECC) memory is encouraged to maximize system reliability.

<sup>2</sup> Relates to storage for Event Recorder Server and Operating System. The 2<sup>nd</sup> drive is for temporary local storage for the recorded events.

<sup>3</sup> This is the maximum throughput/bandwidth for all cameras to run simultaneously. For example, 12 cameras running 720P @30fps at roughly 2 Mbps would equal 24 Mbps.

	16 Camera Maximum	24 Camera Maximum
<b>Processor</b>	1x Intel Core i5	
<b>Memory<sup>1</sup></b>	16 GB RAM ECC	
<b>Internal Drive<sup>2</sup></b>	120 GB SSD	
<b>2<sup>nd</sup> Internal Drive<sup>2</sup></b>	2 x 8TB HDD (RAID 1)	2 x 12TB HDD (RAID1)
<b>Network</b>	Gigabit Ethernet	
<b>Video</b>	Integrated Graphics	
<b>Monitor</b>	SVGA (800 x 600)	WXGA (1024 x 768)
<b>Operating System</b>	Windows 10 IoT Enterprise	
<b>Maximum Bit Rate<sup>3</sup></b>	384 Mbps	

<sup>1</sup> Error Code Correction (ECC) memory is encouraged to maximize system reliability.

<sup>2</sup> Relates to storage for Event Recorder Server and Operating System. The 2<sup>nd</sup> drive is for temporary local storage for the recorded events.

<sup>3</sup> This is the maximum throughput/bandwidth for all cameras to run simultaneously. For example, 12 cameras running 720P @30fps at roughly 2 Mbps would equal 24 Mbps.

### Server Installation Notes

The Server name & IP must be assigned prior to installing the **Event Recorder** components (Coordinator, Manager, Recorder).

Certain firewall ports must be opened on the Server. See the [Firewall Ports section](#) for more details.

## Client Hardware Requirements

The following table outlines the hardware and software requirements for the **Event Recorder Client**. This is the system that is used to access, review, and live stream the events from the server prior to upload to your backend.

	Minimum	Recommended
<b>Processor</b>	Intel Core i3-530 (2.93GHz)	Intel Core i7-2600 (3.4 GHz)
<b>Memory</b>	4 GB RAM	8 GB RAM
<b>Internal Drive</b>	80 GB HDD	120 GB SSD
<b>Network</b>	10/100 Ethernet	Gigabit Ethernet
<b>Video</b>	Integrated Graphics	256MB Dedicated Graphics (x16 PCI-Express Card)
<b>Monitor</b>	WXGA (1024 x 768)	UXGA (1600 x 1200)
<b>Operating System</b>	Windows 10	

## Firewall Ports

The following ports are required to be open on **Event Recorder** installations. Please take note of the ports required for the Server and for the Clients.

**Recorder Service**

Type	Name	Protocol	Port
Outbound	Standard HTTPS protocol – (access to DWScLOUD.net)	TCP	443
Inbound	HTTP	TCP	46012
Inbound	Live Streaming - HTTP	TCP	8042

**Manager Service**

Type	Name	Protocol	Port
Inbound	HTTP	TCP	46011
Outbound	Standard HTTPS protocol – (access to DWScLOUD.net)	TCP	443