

## IVC & Emerson Joint Customer Projects

**Industrial Video & Control (IVC)** is a manufacturer of network video solutions for industrial installations. Based outside Boston, Massachusetts, IVC is an Emerson Strategic Partner and the global market leader in industrial network video, driving the integration of digital video with SCADA applications. IVC products and solutions focus on industrial surveillance and monitoring for security, productivity, and safety applications. Our solutions are based on innovative, open technology platforms. We stress quality, reliability, applications knowledge, and ongoing support to provide outstanding service to our customers worldwide.

IVC's products include industrial network cameras, video management software, and a full range of accessories. We offer a complete line of video products certified for use in hazardous areas (Class I Division 1, Class I Division 2, Zone 1, ATEX, IECEx).

Our camera management software is specifically designed for managing large camera networks. Our software has been tested and certified for use with DeltaV by Emerson in Austin, TX and includes an API that facilitates the integration of video and camera controls into DeltaV Operate screens. Additionally, our alarm server component can act as an OPC.NET client.

IVC works closely with Emerson project engineers to specify a video solution that exactly meets the project requirements. Where our standard products do not precisely satisfy the project requirement, IVC will engineer a custom solution (hardware and/or software).

**This overview of Emerson-led projects illustrates the variety of applications that IVC has addressed:**

Customer	Project
<b>Borstar Bay Bayport Polymers LA</b>	Complete process monitoring system (with Class I Division 1 and safe area fiber enabled PTZ cameras) - 2021.
<b>Dow Chemical Bristol PA</b>	PTZ Cameras with DeltaV Integration (Emerson & Proconex) - 2019-2020.
<b>Dow Lone Star Deer Park TX</b>	Hazardous Area and PTZ cameras with DeltaV Integration (Emerson) - 2019-2020.
<b>Lyondellbasell Morris Complex IL</b>	Thermal/Visual Pan-tilt-zoom cameras with purge assemblies (Novaspect) - 2020-21.
<b>CF Industries in Donoldsonville Nitrogen Complex LA</b>	20 radiometric thermal cameras. Monitoring for the presence of hydrogen fires at nitrogen fertilizer plant. (Via John H. Carter)
<b>Chirag Oil Project in Azarbaijan</b>	124 IP encoders and software integrated with Micropack cameras.
<b>Quad 204 West of Shetland in the UK</b>	Over 500 IP encoders and software integrated with Micropack cameras.
<b>Claire Ridge West of Shetland in the UK</b>	IP encoders and software integrated with Micropack cameras.
<b>Santos LNG project in Queensland Australia</b>	33 PTZ and 3 fixed cameras. Viewed at the control center in Brisbane.
<b>Ethylene project in Gulf of Mexico</b>	52 Class 1 Div 2, 4 Class 1 Div 1, 2 thermal cameras with analytics software.
<b>Saudi Chem Project in Saudi Arabia</b>	32 Class 1 Div 2 camera also 2 flame detectors from Net Safety.

<b>Occidental Chemical in Wichita Kansas</b>	3 wireless cameras with motion detectors securing the train gates.
<b>Chemical Plant in Blair Nebraska</b>	16 wireless cameras to monitor the river. Cameras re-purposed when flood threat subsided. (Via Novaspect)
<b>EDF Blenod Wireless video in France</b>	12 wired and wireless cameras.
<b>Kozienice Power in Poland</b>	14 fixed and 2 PTZ cameras.
<b>Emerson Spain</b>	4 hazardous area wireless cameras.
<b>Asphalt Operating Services near Chicago, IL</b>	6 wireless PTZ cameras for process and safety monitoring of bulk liquid petrochemical storage facility.
<b>Domtar Paper in South Carolina</b>	Wireless PTZ cameras for in-plant process monitoring.
<b>Agropolychim in Bulgaria</b>	6 certified fixed, 2 PTZ, & 1 fixed cameras with motion detectors.
<b>Sabic in Saudi Arabia</b>	43 fixed cameras and 35 Class 1 Div 2 wireless radios.
<b>Dyno Nobel in Missouri</b>	4 wireless pressurized fixed cameras deployed in a corrosive environment.