



# Flare Smoke Auto-Detection Software

| Requirements or Needs   | Solutions and Benefits   |
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| EPA rules (CFR-60.18) require industrial flares to operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. | Most oil refineries have installed video cameras to monitor their flares 24/7 and save videos in a computer system ready for EPA's audits.   |
| It is difficult for operators to watch flare videos 24/7 in order to prevent flare smoking from happening.  | The CyboFlare Smoke Auto-Detection Software can detect flare smoking in real-time.   |
| It is desirable to integrate flare online monitoring, smoke auto-detection, alarming, control override, and historian functions with plant's DCS and EPA reporting systems. | CyboFlare sends a "Smoke Level" signal to DCS that can trigger an alarm and enforce control override to take the flare out of smoke quickly. |
| It is tedious for the plant environmental team to identify and record smoking events by watching saved videos.  | CyboFlare saves "Smoke Level" in historical files with time stamps and EPA rule analysis results.  |

**Configuration Mode:** View saved smoking flare videos, setup and save the "Area of Interest" and "Smoke Detection Index" for each flare and camera.

**Online Mode:** Connect to multiple live video cameras to detect smoking events, send the "Smoke Level" data to DCS, and generate historical files.

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|  | What is so Special       | Patent Pending, Based on AI and MFA Control Tech.   |
|  | Supported Video Cameras  | Axis Q17605 Series, Most Axis and Basler models.  |
|  | Operating Systems        | Windows 7/10. (Can run in the same video Server PC).                                      |
|  | Software License Options | Perpetual or Annual License. (No extra hardware needed)                                   |
|  | To buy or request a Demo | Call 1-916-631-6313 or e-mail: <a href="mailto:Info@cybosoft.com">Info@cybosoft.com</a> . |