

# Literature Review

## Gas Leakage monitoring & Alerting system for Industries

Team ID: **PNT2022TMID31403**

Team Members

AISHA REFANA A

HARIN VENUGOPALAN

JEEVANANDHAM P

KAMALI M

# LITERATURE REVIEW

Project Name	Description	Patent filed	Patent Granted	Diagram
GAS LEAK DETECTION SYSTEM AND METHOD	<p>A system and a method for sensing gas leaks are provided to enable a manager to catch and repair gas leaks by analyzing stored images.</p> <p>CONSTITUTION:</p> <p>A system(100) for sensing gas leaks comprises a plurality of cameras(110), a composite image combining unit(120), a screen output unit(130), and a control unit(150). The cameras comprise visible cameras(112) and infrared cameras(114), which take images of a monitored area.</p>	2011-06-10	<p>2012-04-02</p> <p>Application granted</p>	<p>The diagram illustrates the internal structure of the gas leak detection system (100). At the top, a box labeled '관리자 단말기' (200) is connected to the system. Below it, the system (100) is enclosed in a large rectangle. Inside, a '제어부' (Control Unit, 150) is centrally located. To its left is a 'DB' (Database). To its right is a '화면출력부' (Screen Output Unit, 130). Below the control unit are four modules: '메모리부' (Memory Unit, 140), '경보부' (Alarm Unit, 160), '표시등' (Indicator Light, 170), and '메시지 발송모듈' (Message Sending Module, 180). Above the control unit is a '복합 영상 생성 및 관리' (Composite Image Generation and Management) block. To the right of the control unit is a '카메라' (Camera, 110) block, which contains two sub-units: '가시광 카메라' (Visible Light Camera, 112) and '적외선 카메라' (Infrared Camera, 114). The entire system is connected to a power source, indicated by a lightning bolt symbol.</p>