DIRAD
Distributed Incident Recording and Display

A unique and practical touch-screen technology enabling operators to remotely monitor, interpret and record activities and actions, related to incident response and to essential asset control. The fully customizable system is designed to provide a simplified and functionally accurate response and deployment resource... and much more.

Background

Traditional methods of incident monitoring and recording involve a range of techniques based around the use of a deck plan drawing overlaid with a clear plastic cover (whiteboard) which is then written on by hand. Operators are responsible for keeping their whiteboards up to date, accurate and synchronized throughout a ship, where clear incident understanding and management is essential.

It is well understood that these traditional manual methods are both inefficient and prone to errors – especially where remote and distributed communication is challenged under emergency conditions.

DIRAD

DIRAD is based on globally accepted standards for HMI (Human Machine Interface) and is designed for duty in some of the most difficult and stringent operating environments in the world.

DIRAD can be displayed on any size screen from 60” wall-mount central stations to our fully portable hand-held ROVERS; commercially hardened, mil-spec and capable of wireless communications even in the harshest environment.

DIRAD is an effective tool for coordination and management of any process or boundaried activity where multiple automated inputs or manual whiteboard emulation is beneficial.

DIRAD collects, interprets, and presents users with multiple sources of information to simplify and inform their decision making processes, including:

- Complex routine decision making
- Emergency incident decision making
- Local and remote monitoring and intervention of critical incidents
- Strategic view
- Scenario/incident planning and training
- Resource and asset management

Personnel safety, mission-critical operations, asset management and coordinated dispatch are just a few of the key areas where the DIRAD system becomes the front-end interface to highly sophisticated control systems and safety process and dispatch management operations.

The system is designed for flexibility and can be engineered to suit individual applications including:

- Full integration into new or existing control systems
- Autonomous operation on any new or existing network
- Stand alone as an independent system

DIRAD’s simplified schematics and optional overlay screens can include details such as electrical, piping, HVAC, structural, escape routes, hatch status and the location of assets and personnel.

DIRAD operators are proven to quickly identify the source of a single incident or multiple incidents and react more quickly and accurately when under pressure than operators utilizing antiquated whiteboard or purely text-based response systems.
Without the distraction of cluttered, confusing and sometimes overwhelming means of interaction and display, the DIRAD operator is able to quickly and accurately assimilate information with real-time verification and updates from remote fully portable user stations and live CCTV feeds.

By offering robust communication methods and ease of operation, coupled with user-familiar symbols and colors of choice, DIRAD is ideal to use in any environment where speed, efficiency and accuracy of information is intrinsic to the successful outcome and management of critical situations, asset control and moreover the safety of personnel and property.

DIRAD is designed to provide a simple and globalized perspective of any operation, with a simple intuitive display incorporating live CCTV feed.

**Features**
- Touch screen technology with fast navigation
- Full incident profiling and display
- Personnel tracking integration capability
- Supports remote hard-wired or wireless user stations
- Asset views and management
- Integrates multiple simultaneous CCTV/mobile camera views
- Automatic/semi-automatic or manual alarm management
- Remote sensor inputs
- Existing network integration
- Incident and events log
- Clean and simple display
- Full capture mode for “black box” emulation
- 2D, 3D and elevation views
- Auto zoom control for screen de-cluttering
- Full color user palette
- User icon libraries
- User asset libraries
- Static or live overlays
- Free draw feature
- Manual text entry
- Auto narrative text
- User object placement
- Dynamic kill-cards
- Multi-language support
- User information repository for photos, videos, schematics, procedures etc.