

# DHI-NMS-B9100-PRO

## Video Cloud Intelligent Operation and Maintenance Platform



With "visualization" as the core, Video Cloud Intelligent Operation and Maintenance Platform provides a variety of advanced functions and services for IoT devices, IT infrastructure and applications. Powered by IoT, View, AI algorithms and big data analysis technology, the platform provides a wealth of functions such as device life cycle management, unified operation monitoring, real-time failure alarm, automatic process management, and a variety of one-stop operations and maintenance services.

### System Overview

Video Cloud Intelligent Operation and Maintenance Platform relies on the strategy of Heart of City (HOC) and cooperates with video cloud architecture. At the same time, it provides comprehensive video surveillance operation and maintenance services, active inspection, active operation and maintenance, active discovery and active alarm. Complete work order process system and multi-dimensional data presentation greatly improve the efficiency of video surveillance operation and maintenance.

### Scene

It is suitable for scenarios that monitor and manage network devices, such as public security, traffic policing, and intelligent traffic.

### Functions

#### Real-time Video Diagnosis

Video-on-demand detection is used to judge the readability of real-time videos. In just 3 seconds, it can analyze up to 20 channels, allowing it to completely analyze 100,000 video channels in barely 4 hours.

#### Video Quality Inspection

Adopts industry leading graphics processing algorithms and pattern recognition technology to detect 14 common video problems: Freeze, loss, delay, stripes, masking, lightness, contrast, definition, color cast, noise, scenario change, black and white image, and scenario upheaval.

- Real-time video diagnosis analyzes up to 100,000 video channels in just 4 hours.
- Video quality inspection, built-in 1000-channel video quality diagnosis.
- Recording completeness inspection.
- Monitors important operating information of servers, network devices, dynamic environment and storage devices.
- Real-time alarm.
- Complete workflow for work order distribution and maintenance feedback.

#### Recording Loss Detection

Supports detection of video recording completeness, visualized recording completeness rate and video loss duration. It also supports detection of storage days, and displays video storage days, video loss days and the earliest video recording time.

#### Real-Time Alarm

Flexible system that not only allows alarm thresholds to be customized, but that also generates information for more than 50 different types of alarms. You can also use alarm recovery detection mechanisms, configure settings for alarm strategies to avoid alarm storms, and access multiple types of alarm notification methods such as email, and SMS. You can also receive notifications on the client.

#### Maintenance Process

Standardized full-processing of various operations, and support for options such as submission, review, dispatch, processing, postponement, rejection and evaluation of work orders.

#### Situation Cloud Map

Visual display of key indicators, including live view, device monitoring, alarm overview, and maintenance overview. It also supports 4K large-screen display, and one-click operation and maintenance.

#### Device Management

Centralized management of platform front-end devices. It also supports the manual addition of dynamic environments, storage, servers, networks and other devices, and the centralized monitoring and management of device information even while the system is offline.

#### Diagnostic Plan Configuration

The diagnosis server and the client can be used to add, delete, edit, enable and disable diagnostic plans. You can preview the video of a channel in the diagnostic plan, bind diagnostic solutions to diagnostic plans, and search for diagnosis results by diagnostic plan name.

**Diagnosis Search**

The diagnosis server and the client can be used to search for diagnosis results by channel number, diagnosis type, and diagnosis time. You can reset all search conditions.

**Diagnostic Solution**

Use the diagnostic server and the client to add, edit and delete diagnostic solution. Configure 17 diagnostic parameters

**Video Definition Anomaly Detection**

Visual display of key indicators, including live view, device monitoring, alarm overview, and maintenance overview. It also supports 4K large-screen display, and one-click operation and maintenance.

**Technical Specification****Functions**

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Device Management        | Monitors server, storage devices, network devices, and more                                                                  |
| Video Surveillance       | Diagnoses the video quality of up to 1000 channels; supports real-time video diagnosis and recording completeness monitoring |
| Basic Statistics         | Device online rate, video completeness rate and image quality                                                                |
| Automatic Inspection     | Supports real-time video play inspection, video quality inspection, and custom inspection configuration                      |
| Video Quality Inspection | Supports 10-channel rapid video analysis and inspection                                                                      |
| Situation Cloud Map      | 4 K Large Screen                                                                                                             |
| Alarm Center             | Alarm notification                                                                                                           |

**Parameter**

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Device Management   | Access and manage up to 100,000 channels                 |
| Basic Statistics    | Over a million pieces of data can be analyzed in just 3s |
| Situation Cloud Map | Displays 1500 pieces of data on a device in barely 2s    |

**Ordering Information**

| Type                                                       | Model             | Description                                                               |
|------------------------------------------------------------|-------------------|---------------------------------------------------------------------------|
| Video Cloud Intelligent Operation and Maintenance Platform | DHI-NMS-B9100-PRO | Video Cloud Intelligent Operation and Maintenance Platform General Series |