

# TDHDX16-4K-AI

## 16 Channel Penta-brid 4K Mini 1U Digital Video Recorder



### System Overview

TDHDX16-4K-AI, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, featuring full-channel SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Renovated from the original SMD technology running on CPU, the new SMD Plus adopts independent AI smart chip loaded with new deep-learning algorithm, enabling the computing power improved by 10 times. As a result, SMD Plus can recognize moving objects and differentiate human and vehicles, so as to effectively avoid false alarms caused by tree branches, insects, shadows, wind or other environmental factors. Meanwhile, users are allowed to select people or vehicles for playback, thus greatly saved target search time.

### Functions

#### Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

#### SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

#### Smart H.265+

Smart Codec, H.265+ can reduce up to 80% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

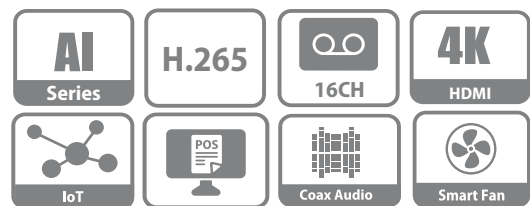
#### HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

#### Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 32 channels of IPC access, each channel up to 8MP input; Max 128Mbps Incoming Bandwidth
- IoT & POS functionalities
- Perimeter Protection and SMD Plus
- Up to 2 channels video stream(analog channel )human face recognition



### Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

### IoT Functionality

HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

### POS Functionality

This function includes POS ticket information overlay and search which can be widely used in retail programs.

### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

### Spot Output

It is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

### Smart Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval time.



