

How-to guide of integrating Redscan Module in Hikvision I-Series NVR

Contents

| Overview | 3 |
|--|----|
| Prerequisites | 4 |
| Configuring PIE-1 Module | 5 |
| Optex Redwall Event code (REC) definitions | 7 |
| Hikvision NVR Setup | 8 |
| Compatibility | 12 |

Overview

With a fully-integrated security system that combines OPTEX's sensors with Hikvision's full range of IP cameras and Network Video Recorders on site, users in local or remote monitoring stations will be alerted in the event of an unwanted intrusion. Events can be monitored in real-time, the images recorded, and an appropriate response determined. Equipped with OPTEX's latest analytics programming, false alarms are sure to be minimized.

This how-to guide explains step-by-step how to integrate the PIE-1 with the I-Series NVR, how to receive alarms generated by the Optex sensor.

Prerequisites

Hikvision I-SERIES NVR Firmware DZ_K51_EN_STD_V3.4.93_170502

Optex supported software versions Redscan RLS-3060L/SH v7.13+ Redscan RLS-2020I/S v1.43+ PIE-1 v1.2.0+

Main functionalities:

- Receive Optex IP comm. protocol
- Report alarm-area data
- Diagnose Tamper/Trouble Sensor events
- Heartbeat monitoring (Device online/offline monitoring)
- Alarm + Camera linkage action
- PTZ linkage
- Event logging

Configuring Redscan Event Module



- 1. Open and login to Redscan manager (Default User: REDSCAN Password: OPTEX)
- 2. Click "Connect to detector" (Default address is 192.168.0.126



3. Click "Download" a process bar will appear and close once finished



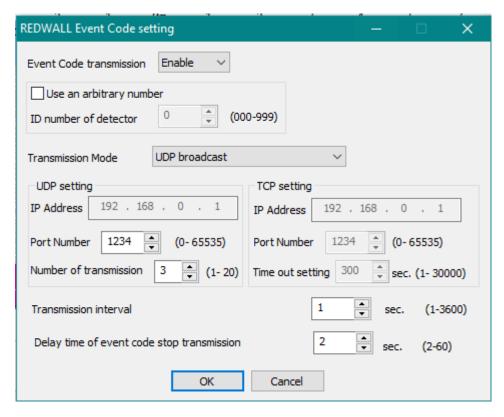
Area

4. Click "Area Alignment" the detection area alignment window will appear

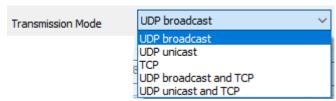


Event Code setting

- 5. In the Detection area alignment window click "Event code Settings"
- 6. The "Event code settings" window will appear



7. Under Event code configuration select your desired "Transmission Mode"



^{*}Note all Transmission modes are compatible, be aware when using UDP Broadcast event codes are sent to all devices on the network.

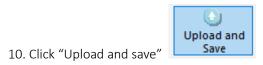
8. Enter destination IP address (this is the NVR IP address)



8. Enter transmission settings



9. Click "OK" -> "Confirm" -> "Apply" -> "OK" to exit area alignment menu

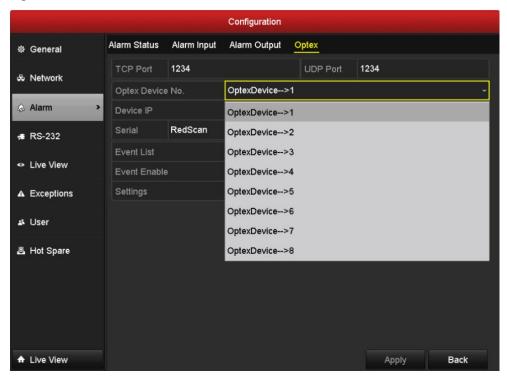


Optex Redwall Event code (REC) definitions

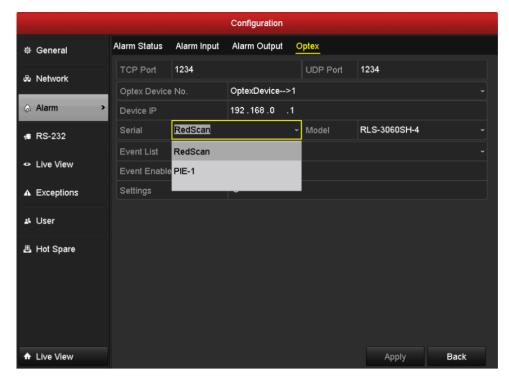
| PIE-1 | | | T | | | |
|----------------|-----|-------------------------------|--|-----|---|---|
| Model name | REC | Meaning | Cause | REC | Meaning | Cause |
| | MO | Master Alarm | Any zone is in alarm condition | FR | Far Zone Alarm | Far Zone of sensor Active |
| SIP-100 | CL | Master Alarm Clear | Alarm condition restores and clears | NR | Near Zone Alarm | Near Zone of sensor Active |
| | TA | Tamper Output | Tamper switch is operated or device is rotated | CR | Creep Zone Alarm | Creep Zone of sensor Active |
| | ta | Tamper Ouput Clear | Tamper switch is closed and cleared | FN | Far or Near Zone Alarm | Far or Near Zone of sensor Active |
| SIP-5030 | TR | Trouble Output | Sensor in Mask condition or detector malfunction | XY | Creep and Near Zone Alarm (Combination Code) | Creep and Near Zone of sensor Active |
| | tr | Trouble Output Clear | Mask condition restores and clears | YZ | Near and Far Zone Alarm (Combination Code) | Near and Far Zone of sensor Active |
| SIP-404/5 | DM | Device monitoring "heartbeat" | When received Device is online | X7 | Creep and Far Zone Alarm (Combination Code) | Creep and Far Zone of sensor Active |
| SIP-4010/5 | | | | \^Z | Creep and (Far or Near) Zone Alarm (Combination Code) | Creep and Far or Near Zone of sensor Active |
| SIP-3020/5 | | | | CC | Combination Code | Multiple Zones Active |
| SIP-404 | | | | | | |
| SIP-4010 | | | | | | |
| SIP-3020 | | | | | | |
| Tamper/Trouble | | Tamper Output | Tamper output active | DM | Device monitoring "heartbeat" | When received Device is online |
| (Generic | | Tamper Ouput Clear | Tamper output restored | | | |
| connections) | TR | Trouble Output | Trouble output active | | | |
| | tr | Trouble Output Clear | Trouble output Restored | | | |
| RBM-60QN | | Master Alarm | Beam in alarm | A1 | Alarm A1 | Zone A1 Active |
| RBM-100QN | | Master Alarm Clear | Beam clear | A2 | Alarm A2 | Zone A2 Active |
| RBM-200QN | | Tamper Output | Beam Tamper switch open | XY | A1 and A2 Alarm | Both Zone A1 and A2 Active |
| | | Tamper Ouput Clear | Beam tamper restored | CC | Combination Code | Multiple Zones Active |
| | | Device monitoring "heartbeat" | When received Device is online | | | |
| RFB Single-ch | MO | Master Alarm | Any zone is in alarm condition | A1 | Alarm A1 | Zone A1 Active |
| ru z omgro om | CL | Master Alarm Clear | Alarm condition restored | A2 | Alarm A2 | Zone A2 Active |
| RFB Dual-ch | | Tamper Output | Tamper Switch Active | | A1 and A2 Alarm | Both Zone A1 and A2 Active |
| | | Tamper Ouput Clear | Tamper switch Restored | CC | Combination Code | Multiple Zones Active |
| FD Single-ch | | Fault | self diagnostic fault | | | |
| | fa | Fault Clear | fault resolved | | | |
| FD Dual-ch | DM | Device monitoring "heartbeat" | When received Device is online | | | |
| | | | | | | |

Hikvision NVR Setup

1. Under menu navigate to **Configuration-> Alarm-> Optex** Select which device number you wish to configure and enter "Device IP" address



2. Select which Optex product, Series and model are being used.

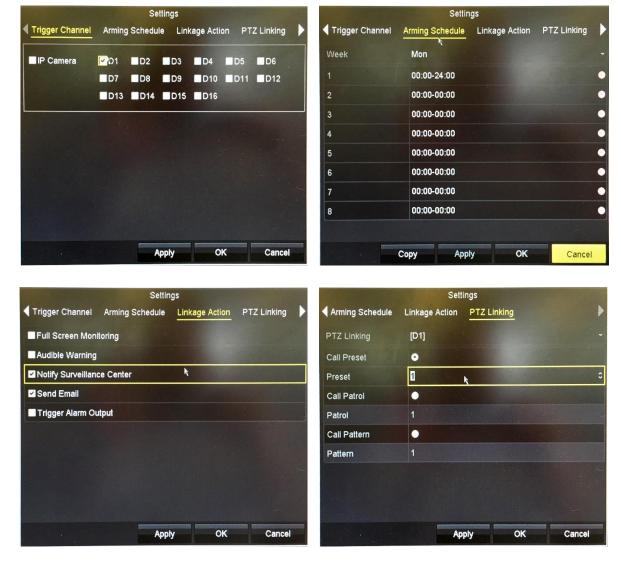


Redscan series has Zones 4 or Zones 8 (refer to Optex Redscan manager software to identify)

3. Under event list select event then tick event enable and select settings.



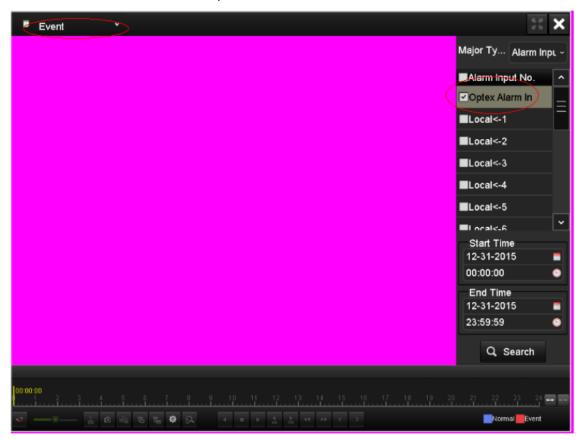
4. Under Setting configure Trigger Channel, Arming Schedule, Linkage action and PTZ Linking.

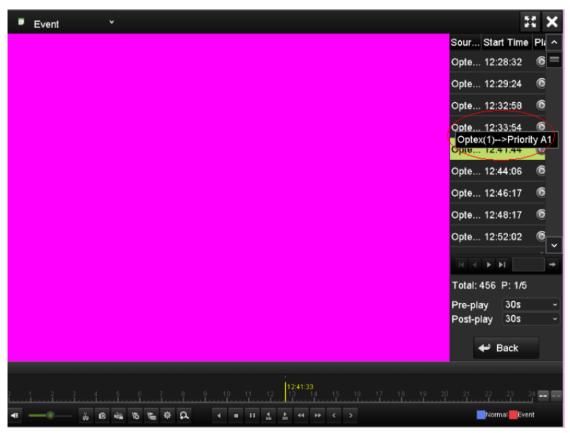


5. Click **Apply-> OK**

6. Recording search

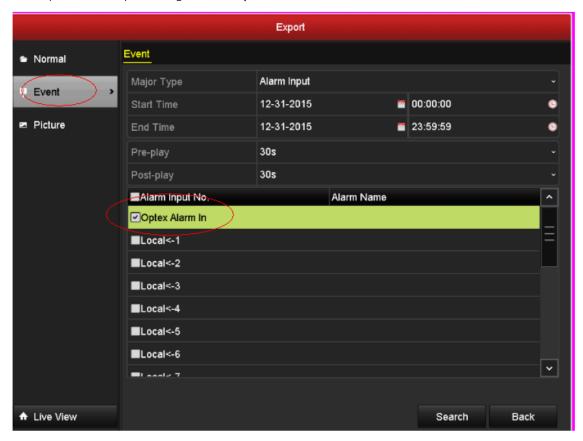
Users can filter recorded events for Optex Alarm in





© Hangzhou Hikvision Digital Technology Co.,Ltd. All Rights Reserved.

7. Export events by selecting filter for **Optex Alarm in**



8. Event log

All Optex events can be found under Maintenance-> Log information major type Alarm in



© Hangzhou Hikvision Digital Technology Co.,Ltd. All Rights Reserved.

Compatibility

Firmware: I-Series

NVR_K51_BL_EN_STD_V3.4.62_160820

| DS-7608NI-I2 |
|------------------|
| DS-7616NI-I2/16P |
| DS-7716NI-I4/16P |
| DS-9964NI-I8 |
| DS-7616NI-I2 |
| DS-7716NI-I4 |
| DS-7732NI-I4/16P |
| DS-9632NI-I16 |
| DS-7608NI-I2/8P |
| DS-7732NI-I4 |
| DS-9632NI-I8 |
| DS-9964NI-I16 |

Firmware:

NVR_NETRA_BL_EN_STD_V3.4.0_160422

-ST -RT -XT -SP series NVR product list

76xx Series

DS-7608NI-SP, DS-7608NI-ST, DS-7616NI-SP, DS-7616NI-ST, DS-7632NI-ST, DS-7632NI-SP, DS-7608HI-ST,DS-7616HI-ST

77xx Series

DS-7708NI-SP, DS-7708NI-ST, DS-7716NI-SP, DS-7716NI-ST, DS-7732NI-SP, DS-7732NI-ST, DS-7764NI-ST

85xx Series

DS-8508NI-ST, DS-8516NI-ST, DS-8532NI-ST

86xx Series

DS-8608NI-ST, DS-8616NI-ST, DS-8632NI-ST, DS-8664NI-ST

95xx Series

DS-9508NI-RT, DS-9508NI-ST, DS-9516NI-RT, DS-9516NI-ST, DS-9532NI-RT, DS-9532NI-ST

96xx Series

DS-9608NI-RT, DS-9608NI-ST, DS-9616NI-RT, DS-9616NI-ST, DS-9616NI-XT, DS-9632NI-RT, DS-9632NI-ST, DS-9632NI-XT, DS-9664NI-RT, DS-9664NI-ST, DS-9664NI-XT

80xx Series

DS-8004HFI-ST, DS-8008HFI-ST, DS-8016HFI-ST, DS-8004HWI-ST, DS-8008HWI-ST, DS-8016HWI-ST

90xx Series

DS-9004HFI-ST, DS-9008HFI-ST, DS-9016HFI-ST, DS-9004HFI-RT, DS-9008HFI-RT, DS-9016HFI-RT, DS-9016HFI-XT, DS-9004HWI-ST, DS-9016HFI-XT, DS-9004HWI-ST, DS-9016HWI-ST