



## Intelligent NVR AM-i220-UHD 20Ch H.265+ 4K Intelligent NVR



Superior Engineering Design & Sensational Image Quality

### AM-i220-UHD 20Ch H.265+ 4K Intelligent NVR

H.265+ VIDEO COMPRESSION	ULTRA HD RESOLUTION	HDMI	VGA	RAID	VIDEO ANALYTICS
ANR	SMART RECORD & PLAYBACK	RJ45 LAN	HDD GROUPING & QUOTA	TRIGGER ALARM	P2P CLOUD

#### Features :

- Latest H.265+ HEVC Hardware compression
- 4K 8MP/6MP/5MP/4MP/3MP/1080P/720P/4CIF IP Camera Input
- 20Ch Real-time display on Single screen
- Up to 20TB storage capacity
- Supports all 20Ch iVA video analysis(AVTRON iCRYST Series)
- Supports ANR Function, I-Frame Recording, Smart Record and Smart Search, Record file tag, Recording Encryption
- 1Port x HDMI, 1 Port x VGA Video Source selectable
- HDMI Resolution up to 4K & VGA Resolution up to 1080P Video output
- Advanced HDD Grouping & Quota Function with customized recoding Setup & S.M.A.R.T HDD Technology
- Two-Way audio intercom through CMS/Mobile/NVR/Browser
- P2P secure cloud monitoring on iOS,IPAD,Android handsets, Alert management
- Software & Hardware Alarm Camera Linkage for Various Analytics & Diagnosis & Alarm
- Network protocol TCP/UDP/MULTICAST/DDNS & many more IP Protocol, Auto Search with iCRYST Series Camera
- Supports Email, FTP, Recording, PTZ movement, Tour, Alarm, Buzzer, when Motion, Video Loss, Video Blind, etc.
- Back UP Through USB Flash drive/HDD/CD&DVD-RW/SATA Burner/Network download
- Quick Playback & Back up, Customized GUI Display, Complete PTZ Control(Preset, Cruise, Pattern & many more)
- Third Party Alarm Integration by 1CH Alarm Output to Activate the Other System
- Lowest Power Consumption & Supports Multi Languages

## Intelligent Video Analytic Functions :

### Double Trip Wire



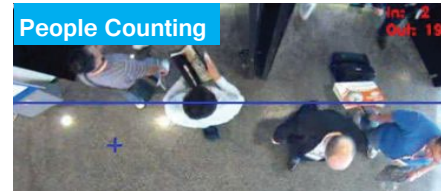
The application detects moving objects that cross a two trip line, making it possible to automatically trigger an event. Ideal for illegal turn or traffic flow (vehicles or people) and specify the minimum to maximum time intervals or when the person or an object enters in unauthorized zone and crosses, the both virtual lines trigger an event.

### Facial Detection



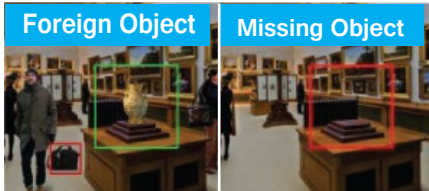
The application is able to identify and capture human faces from live video & it can save the images to the specified Recording Path either in NVR or CMS or Local Computer with Date & Time Stamp. Ideal for ATM windows, Service and Ticket Counters, Retail POS counters, Doorways and Passageways, Lobby and Reception areas.

### People Counting



The application sense people from an overhead position in the desired areas, how many persons Enter & Exit passing through. Functional to maintain Visitor Data, supervise stock point, evaluate traffic in key areas & manage the traffic flows. Ideal for Customer Service Centers, Airports, Changing Rooms, Point-of-Sale (POS) transactions Desk.

### Foreign Object

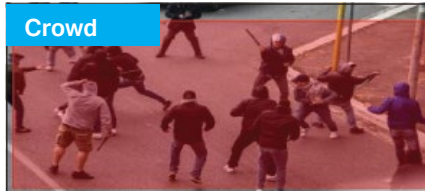


**Foreign:** The application Detects object abandoned/left behind/ Suspicious Objects Left in Pre-defined Area. It triggers an event. Ideal for Public Transports, Museums, Art Galleries & Public Places  
**Missing :** The application detects when a particular object was moved or removed from the desired drawn Virtual area, it trigger an event. Ideal for Museums, Warehouse, Art Gallery, Jewelry showroom.

### Missing Object



### Crowd



The application estimates the density of people in pre-defined area, once the density crosses a certain limits or suddenly group of a people enter into in the pre-defined area, it triggers an event. Ideal for Retailers, Shopping Malls, Waiting Areas, Hospitals, Parking Zones, Silent Zones.

### Loitering



If somebody enters the marked area and stays there for a certain period of time, the alarm is automatically triggered. Ideal for Public areas, Border Fences, Buildings, Government Restricted Zone, Banks, Parking Areas.

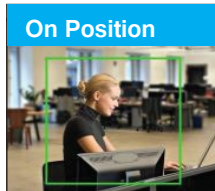
### Parking



The application detects illegal parking with pre-defined restricted zones, speed limit settings.

Ideal for VIP parking Zone, No Parking Zone, Special Allocated Parking Zone, Parliament House.

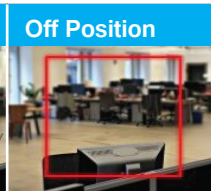
### On Position



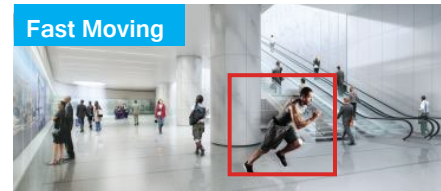
The application triggers an alarm when the Duty Officers are absence from their pre-defined sitting positions.

Ideal for Reception, Customer Service Desk, POS Desk, Entry/Exits Security Guards Cabin.

### Off Position



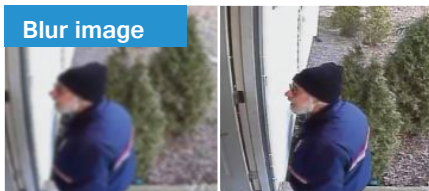
### Fast Moving



The application triggers an alarm when the person runs in a not allowing Running pre-defined Zone.

Ideal for Temple, Hallways lobbies, Platforms Walking Zone, Airports Runways.

### Blur image



The application trigger an alarm if someone deliberately or accidentally disturbed the lens focus or change the image Sharpness.

### Scene change



The application trigger an alarm if the camera Rotated/Manipulation/Direction Shifted from the user-selected Viewing direction or camera lens is covered by some bag or cloths, Spray Painting, Video Tamper.

More than  
**18 IVA Functions**  
are available

## Technical Specifications

Model No	AM-i220-UHD
<b>System</b>	
Video Compression	H.265+ HEVC, H.264 Hardware Compression
Audio Compression	ADPCM-DV14/G.711A/G.711U
Operation System	Embedded Linux
Signal System	Auto Detect
Bandwidth Throughput	160Mbps(Incoming 80Mbps)
Remote connections	64Channels
<b>Record/Playback/Streaming</b>	
IPC input	20CH @ 4K/6MP/5MP/4MP/3MP/2MP/720P/4CIF
Live Screen window	20CH/16CH/10CH/9CH/8CH/6CH/4CH/1CH
Live Display channel	20CH @4CIF, 8CH/4CH at 1080P, 1CH@4K/6MP Realtime display
Record resolution	4K 8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Record frame rate	Mainstream 25fps(P)/30fps(N), Sub stream 25fps(P)/30fps(N)
Record function	Smart Record, Records Encryption, Records TAG, One Key Start Recording, Trigger Recording
Smart record	Different recording bitrate at different time zone, i-Frame recording only record key frame to lower frame rate
Trigger record	Manual/Timing/Motion Detection/Port Alarm/ IVA Alarm/Video Occlusion
Playback channel	16CH @1080P/720P/D1, 8CH @4MP/3MP, 4CH @4K/6MP/5MP
Smart search	YES, Quickly search target iVA videos , Only for iCRYs series cameras
Playback function	Play, Pause, Stop, Rewind, Fast, Slow, Next & Previous File/Camera, Full screen, Repeat, Shuffle, Backup selection, Digital Zoom
Instant Access Function	Quick playback up to last 5min, Quick backup
Record quality	Best/Better/Good/Normal/Worst
Record stream Bitrate	VBR/CBR (32 ~ 16384Kb/s)
Sub stream	D1/CIF/QCIF, Frame rate selectable
Pre & Post alarm record	Pre : 10 ~ 600 sec, Post : 5 ~ 60sec
<b>Storage</b>	
Hard disk Interface	2HDD (SATA Port)
Hard disk Capacity	Max. up to 10TBEach Port
Management Function	HDD Grouping and Quota, SMART HDD Check, Record file TAG, File lock
ANR	Download Stored Video Automatically from Camera SD Card, When NVR Online
<b>Intelligent Analytics Functions</b>	
Video analytics channel	All Channel Tripwire/Double tripwire/intelligenct tracking/Heat map/Object left and lost/Running/Loitering/Parking/ Early warning/Crowd/Face detection/People counting/Perimeter/Audio and Video abnormal detection/On duty Detection
Video diagnosis	Video color cast detection, Noise Detection, Electromagnetic interference testing, Fuzzy video Detection
Motion detection	Yes, Zones :396(22x18), Sensitivity Level 1~ 100
Video loss/blind alarm	Yes
Hdd alarm trigger	Disk Full, No Disk, Disk R/W Error, Redundancy Error
Network alarm trigger	illegal Access, IP Address Conflict, Network Lost, MAC Conflict
Icrys Series camera Function	Corridor Control, Plug & Play, Image Flip, one key control,
Event trigger out	E-MAIL, Snap, NVR Sound Buzzer, OSD, Alarm Server Devices, Video Recording, Alarm Out, PTZ Trigger
Alarm trigger	Local Alarm Port Out, NVR Sound Buzzer, OSD, Alarm Server Devices

## Technical Specifications

Model No.	AM-i220-UHD
<b>General</b>	
Language	English, Spanish, French, German, Chinese & Many More
Power supply	DC12V 3A
Power consumption	<30W without HDD
Operation conditions	-10°C ~ +55°C (+14 F~ + 131 F), 10% ~ 90% RH
Enclosure	1U, Black color, Metal case
Weight (g) & Dimension	<2.5Kg, 345(D) x 275(W) x 48mm(H)

### Dimension :

