



## IP PTZ Pro Darkwarrior AM-FD6255-R3U44-FSR Advanced Auto tracking 44X 2MP H.265+ Starlight IP PTZ Camera



**DARK WARRIOR**  
STAR LIGHT

### Dark Warrior Starlight Series IP Camera

Designed to work under Ultra Low Light illumination to Give Colour Picture Quality

Superior Engineering Design & Sensational Image Quality

## AM-FD6255-R3U44-FSR Advanced Auto tracking 44X 2MP H.265+ Starlight IP PTZ Camera



H.265+ VIDEO  
COMPRESSION



SUPER  
WDR



44X  
OPTICAL  
ZOOM



REGION  
OF  
INTEREST



SMART  
IR



CRUISE  
CONTROL



AUTO  
FLIP



VIDEO  
ANALYTICS



LOCAL  
STORAGE  
128 GB



Surge /  
Lighting  
Protection  
6/2 KV  
ELECTRO PROTECTION

### Advanced Alert Alarming System

Advanced Alert Alarming system which ideally for complete guard function, by the Auto tracking the Object that activate alarm, and it enable warning through the speaker & it flash white IR light which make enable color picture at the night moreover can start the green laser for frightening. Intelligent Auto tracking system offers high speed auto tracking function which can track the specific scene or multiple target tracking and adjust the zoom lens according to the moving objects with IVA function.

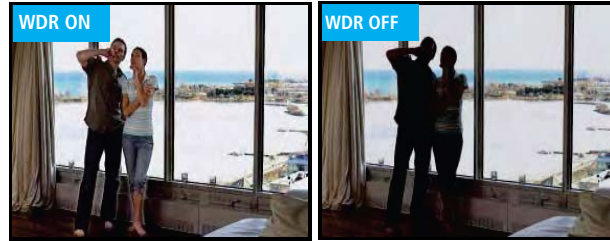
### Features :

- 1/1.8" Ultra Low Lux Starlight Exmor Progressive Scan CMOS Sensor
- Full HD 2MP resolution with 1980(H) x 1080(V) selectable up to 60fps
- Ultra low illumination color image at 0.0004Lux, B&W 0.0001Lux and 0Lux at IR On
- Total 704X zooming capacity by Optically 44X & Digitally 16X
- Latest H.265+ HEVC hardware compression along with H.264/MJPEG
- Smart 18IVA functions, Supports 140dB WDR and 3DNR to night vision image enhancement
- Supports Panoramic tracking, Auto tracking, Manual tracking, Advanced alert alarming and many more
- Triple streaming, Triple compression, Variable/Constant bitrate and frame rate
- High intensity 3rd generation IR Array LED up to 400Mtrs., Auto adjust IR LED power with Wide & Tele zooming angle
- Supports P2P APP alert management & functions
- Supports offline storage by microSD card 128gb(card optional) and Network storage(FTP)
- 500 Preset, 8 Patterns, 8 Swing, 8 Groups Function, special 3D positioning function Complete Coverage by 360° continuous panning with fast rotation 240°/Sec
- Monitoring versatile Height of mounts by tilting range -16° ~ 90°, Controllable tilt level
- Two-Way intercom 1CH audio input, output, Third party alarm Integration by 8Ch Input /2Ch Output
- ANR(automatic network replenishment) to support offline network storage data(SD Card/USB) videos automatically download to NVR hard drive when network re-established
- Wide range network protocol TCP/UDP/QoS/FTP/SMTP/upnp/RTSP/RTP/HTTP & many more
- Smart IR function works when object/person is close to camera. It controls IR to get clear picture
- ROI(region of interest) technology can save more than 25% of bit rate so it increases the storage period
- Built in uni/multicast streaming to support multiple user logging at same time
- Various functions such as WDR, Day Night, BLC/HLC, AGC, White balance, Shutter speed, In/Outdoor, etc.
- OSD in multiple color, naming & position, Privacy, Motion detection, Smart De-Fog, Exposure control
- Software compatibility with icrys series 256Ch CMS software and any third party Onvif VMS/CMS software
- P2P secure cloud monitoring on iOS/Android handsets(through NVR live/playback/ audio and control)
- Latest ONVIF S profile compliance, Email notification, Manual & Schedule snapshot
- Easy, fast response & friendly graphical user interface, Advanced encryption secure access
- Built In Heater & FAN with Special Design with Air Cooling & Intelligent Demist
- Built-in TVS 6000V and Lightning/Surge 4000V protection, Supports wall/ pendant/corner mounts
- IP66 waterproof standard, works under high and low environment -40°C ~ 70°C temp. condition

## Darkwarrior Starlight IP Camera Night Vision



## Super 140dB WDR



## Intelligent Video Analytic Functions :

### Double Trip Wire



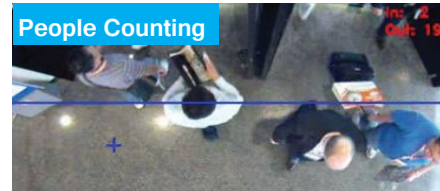
The application detects moving objects that cross a two trip line, making it possible to automatically trigger an event. Ideal for illegal turn or traffic flow (vehicles or people) and specify the minimum to maximum time intervals or when the person or an object enters in unauthorized zone and crosses,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



### Missing 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.

### 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



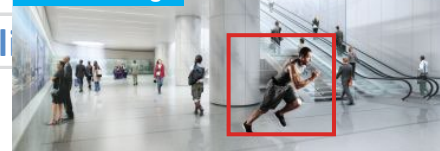
### Off Position



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.

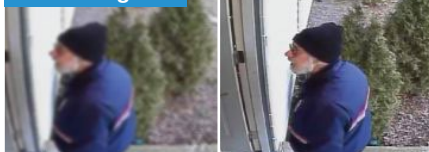
### Fast Moving



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-FD6255-R3U44-FSR
<b>Camera Specification</b>	
Sensor type	1/1.8" progressive scan CMOS image sensor
Lux level	Color 0.0004lux, B/W 0.0001lux at F1.5, AGC on, 0lux at IR On
Shutter speed control	Auto/Manual/Shutter or Iris first, Range 1/1s ~ 1/100000s
Gain control(AGC)	Auto/Manual
Lens	F = 6mm ~ 264mm
Optical zoom ratio	44X optical, 16X digital
Angle of view	Horizontal : 61.2°(wide) ~ 2°(tele)
Aperture range	F1.5 ~ F4.8
Zooming speed	Approx. 5s
Minimum working distance	1-1.5mtrs
Auto focus	Auto/Semi-automatic/Manual
IRIS control	Auto/Manual
SN ratio	≥ 55dB
Signal system	PAL/NTSC
IR functions	up to 400mtrs., Smart IR control, IR LED adjustable according Zoom length, ICR
On Screen Display	
WDR	140dB, Auto/Manual adjustable
Day/Night	Auto(Outside/Inside), Color, B/W, Sensitivity adjustable
Digital noise reduction	3DNR (Close/Ordinary/Expert)
Light compensation	BLC Off/On, HLC Off/On adjustable
White balance	Auto/Manual/Lock/Nature/Sunshine/Day Light/Warm light
Other functions	Smart Defog control, EIS(Image Stabilizer), Flip control, Privacy masking
Motion detection	Yes, Zones :396(22x18), Sensitivity level 1~ 100
Image control	Brightness, Contrast, Sharpness, Saturation
OSD display	16×16,32×32,24×24,48×48,64×64 character size 5 area arrangement @ Time/Date/Week/Character/PTZ angle
Compression/Video/Audio	
Video compression	H.265+, H.265, H.264, MJPEG, H.264 Main/High/Baseline profile
Video resolution	2MP(1920x1080)/1.3MP/1MP/D1/2CIF/CIF/VGA
Main stream	1920×1080@50/60fps, 1280×960@50/60fps, 1280×720@50/60fps, 640×480,704×576,704×480@50/60fps
Second stream	704×576 and 480@25/30fps, 704×288 and 244@25/30fps, 352×240 and 288@25/30fps
Third stream	1920×1080@25/30fps, 1280×720@25/30fps, 640×480@25/30fps, 704×576 and 480@25/30fps, 704×288 and 240@25/30fps, 352×240 and 288@25/30fps
Record & Live frame rate	Selectable 1 ~ 50/60 fps @ main/second stream resolution
Bit Rate	32Kbps ~ 16Mbps, VBR/CBR, I-Frame interval
Audio compression & bitrate	G.711/G.726/ADPCM & 8K~48Kbps
Video Analysis	
Smart Tracking	Manual/ Panorama/Tripwire/ Perimeter/Early warning trigger
Intelligent video analysis	Tripwire, Double Tripwire, Perimeter, Object Left & Lost, Running, Loitering, Parking, Crowd, Audio & Video Abnormal detection, Scene change, Blur image, Face detection, People counting, On duty detection, Auto tracking, Safety Helmet detection
Analytics setting	Target Size/Sensitivity/Background to Foreground difference/Target frame
iVA trigger	Record/Snapshot/PTZ Control/Link out
Intelligent alarm	Motion detection, Video loss and blind, Port alarm, IP & MAC conflict, Mask, Harsh Voice, Cable disconnected, Unauthorized access, Disk full/read/write error, FTP server exception
Alarm & IVA trigger	On-screen alerts/PTZ trigger/Link out/E-MAIL/FTP upload/Pre-Post record
Corridor control	Yes(supported format 16:9, 9:16)



## Technical Specifications

Model No.	AM-FD6255-R3U44-FSR
Region of Interest(ROI)	7 Dynamic Areas for Both Main and Sub Stream
Advanced warning	Keep tracking the target that activates alarming, and enable the speaker to warn, even open the green laser for frightening
<b>Software Support</b>	
Onvif	YES, Profile S
CMS software	iCRYS Series, up to 256CH(IP+NVR+Matrix)
3rd Party VMS/NVR /CMS	Onvif/SDK/CGI
Mobile	Android /iOS through NVR, P2P cloud support
User login	8 User / 4 level of rights, Simultaneous login <10 User client
Snap shots	Schedule, Link with FTP or Email
Encryption	Off/AES
<b>Network, Storage, Interface</b>	
Protocol	HTTP,802.1x,FTP,SMTP,UPnP,SNMP,DNS,DDNS,PPPoE,NTP,RTSP,TCP,UDP,DHCP
Storage	Micro SD/SDHC/SDXC slot(128Gb)
Pre & Post recording	Pre : 5 to 15sec, Post : 10 to 60 sec
Storage function	ANR(auto download in NVR), Manual & Alarm recording
Network storage	FTP(pre & post upload)
LAN port	1x Port RJ-45, 10M/100M ethernet
Audio Input	1Ch Mic in/Line in, Line input and output
Audio Output	1Ch line level
Alarm	8Ch input & 2Ch output
Video output	1.0Vp-p / 75Ω, NTSC or PAL Composite video
Other ports	N.A
<b>Pan/Tilt/Alarm</b>	
Pan/Tilt range	Pan 360°(Endless) / Tilt -16° ~ 90°(auto flip)
Pan speed	Manual 0.1°-240°/sec, Preset speed: 240°/s
Tilt speed	Manual : 0.1°-240°/s, Preset speed: 240°/s
Preset accuracy	±0.02°
Preset	500 Preset
Patterns	8nos, each with 600s memory or 300 orders
Cruise	8,nos Up to 32 presets per cruise
Scan	8 Setup
OSD function	Various languages, Camera & Video parameter
Special function	3D Positioning, Power off memory
Home guard function	Link @ preset/ scan/ cruise/ pattern
Protocol	PTZ_PELCO_D/P, DOME_PELCO_D/P
Other function	FAN
<b>General</b>	
Power supply	AC24V 3A
Power consumption	40W MAX
Voltage protection	TVS 6000V, Lightning/Surge 2000V(power) 1000V(RJ45)
Language	English, Spanish, Korean, Italian, Russian, Chinese, etc.
IP & Vandal protection	IP66
Operating temp. & humidity	-40°C ~ 70°C & 0% ~ 95% RH
Enclosure	Metal housing, with IP66 protection.
Weight (g) & Dimension	<6Kg camera, Ø225(D) X 375mm (H)
Mounting bracket	Wall, Pendant, Pole, Corner mount(optional)

Dimension :

