

# DNA1796YM84

## D/N IR PTZ Positioning System

### 8M 48x w/WDR/Wiper

### Auto Tracking / Analytics



#### DESCRIPTION

The DNA1796YM84 Series are 1/1.8" Starvis CMOS 8MP Network IP Day/Night IR PTZ Camera Positioning systems with 48X Optical, 16x Digital Zoom. Units are designed with high quality Encoder H.265/H.264 video compression, configurable triple stream outputs at 25/30fps 8MP (4K 3840x2160). 1080p, 720p resolutions are available with outstanding quality images under low illumination Color 0.002/F1.4 / 0.0002BW/Lux/F1.4/0Lux IR LEDs on; pan/tilts, enclosures, telemetry receiver drivers into rugged system. Features are: Auto Tracking, built-in intelligent analytics, IR LEDs for 500m night vision. Included are EIS, Defog, OSD with 300 presets, 5 Auto Scan, 5 Patterns, 8 Tours, up to 24 privacy zones, 3DNR and WDR (120dB). With 24VAC voltage, duplex Audio, 7 Alarms in/2 Relays out, Smart Phone Interface, thermostat, heater, fan, defogger, sun shield, wiper, ONVIF and IP66 the DNA1796YM84 series IP D/N IR PTZ Positioning Systems with Auto Tracking and Analytics are serious solutions for commercial, industrial video surveillance installations.

#### FEATURES

- \* Network 8MP D/N IR Integrated PTZ Positioning
- \* 1/1.8" Starvis CMOS Image Sensor; 120dB WDR
- \* Illumination 0.002Lux/F1.4/0Lux IR LEDs On
- \* H.265/H.264 and configurable triple Stream
- \* 48x optical, 16x digital zoom, IR LEDs - 500m
- \* 360° Continuous Pan Rotation; -90° to 45° Tilt
- \* Auto Tracking: single, multiple, panoramic scenes
- \* Built-in Analytics: Tripwire, Perimeter Protection, Loitering, Abandoned Objects, Missing Objects
- \* Face detection, Scene Change, Camera Tamper
- \* OSD: D/N, AGC, WB, WDR, 3DNR and EIS
- \* 300 Presets; Auto Pan, 24 Privacy Zones
- \* Programmable 5 Auto Scans, 5 Patterns, 8 Tours,
- \* 10/100 Mbps Ethernet Compatible; RJ-45 LAN Port
- \* 7 Alarms in/2 out; 1 Audio in/1 Audio out
- \* Smart Phone Interface: iPhone and Android
- \* Aluminum Housing Heater, Defog, Sunshield, Wiper
- \* Available with 24VAC input voltage
- \* Ethernet, Surge Protection; Micro SD Card (128GB)
- \* Compliance with CE, FCC, ROHS, ONVIF, IP66

#### ORDERING INFORMATION

DNA1796YM84A3AS IP IR Integrated 8MP PTZ 48X, D/N, IR LEDs 500m WDR, NTSC, 24VAC

DNA1796YM84B3AS IP IR Integrated 8MP PTZ 48X, D/N, IR LEDs 500m WDR, PAL, 24VAC



#### APPLICATIONS

- \* Homeland Security
- \* Correctional Centers
- \* Petrochemical Industry
- \* Corporate and Banking
- \* Casinos and Hospitality
- \* Health Care Centers
- \* Schools and Universities
- \* Government and Military
- \* Power Generating Plants
- \* Traffic Surveillance (ITS)



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#### Video Specifications

Video format /Signal: PAL/NTSC/1V p-p BNC  
Camera ID range: 1-255

#### Audio Specifications

Audio Input/Output: 1 / 1  
Audio Compression: G.711a

#### Data Specifications

LAN Interface: 10/100Mbps Ethernet RJ-45  
Baud Rate/Protocol: 2400, Pelco D

#### General Parameters

Auto Pan: 0°~360°, 5 auto scan routes  
Programmable Presets: 300 with titles  
Tours/Patterns/Scans: 8 / 5 / 5  
Privacy Masking Zones: 24  
Alarm Input/Output: 7 / 2

#### Electrical Parameters

Built in: Telemetry Rec./driver, PT Head  
Power / Consumption: 24VAC, 50/60Hz, 5A  
≤70W; heater on ≤90W

#### IR Lamp Specifications

Distance: LEDs 500m

#### Mechanical Parameters

Preset accuracy: To 0.1°  
Horizontal movement: Continuous pan 360°  
Vertical movement: Tilt -90°~+45°  
Manual pan speed: 0.1°~160°/s  
Manual tilt speed: 0.1°~60°/s  
Preset speed: Pan 0.1°~160°/s, Tilt 0.1°~60°/s  
Net weight: 25lbs (11Kg)  
Dimensions LxWxH: 15.4"(390mm), 8"(203mm), 18.5"(470mm)

#### Environmental Parameters

MTBF: 50,000 hours  
Housing with Wiper: Sun shield, auto running defroster / heater / fan  
Operating temperature: -40°F~140°F (-40°C~60°C)  
Operating humidity: 0~90% non-condensing

#### Regulatory Compliance:

CE, FCC, ROHS, ONVIF, IP66

#### Manufactured to:

ISO9001 Standards

Camera Parameters	DNA1796YM84
Image Sensor	1/1.8" Starvis CMOS Progressive Scan Image Sensor WDR 120dB
Effective Pixels	8.0M (3840 x 2160)
Signal to Noise Ratio:	>56dB
Resolution (H) Pixels:	3840x2160,1080P / 720P / D1
Min. Illum. F1.5, 50 IRE:	Color 0.002/0.0002BW/Lux/F1.4 / 0Lux/IR On
Frame Rate:	25/30fps @ 8MP, 1080P, 720P
Optical / Digital Zoom:	48X - 5.7mm ~ 275mm / 16x
View Angle: Wide x Tele	64.5°(W)~1.5°(T)
F-value:	F 1.4(wide) – F4.8(telephoto)
Focus:	Auto/Manual (Far/Near)
Day/Night:	Auto(ICR) / Color / B/W
Noise Reduction:	2D / 3D
Wide Dynamic Range:	On, Off, Auto, Ratio Fix
Privacy Masking:	ON/OFF (up to 24 areas)
Electronic Shutter:	1/1 to 1/30,000 s
DEFOG:	ON / OFF
BLC:	BLC / HLC / WDR(120dB)
White Balance:	Auto, ATW, Indoor, Outdoor, Manual
Encoder/Parameters	DNA1796YM84
Video Compression:	H.265/H.264, Triple Stream, Configurable
LAN Interface:	10/100 Mbps RJ-45 Port
Output Bit Rate:	Variable Bit Rate (VBR) & Constant Bit Rate (CBR)
Network Interface:	10/100 Mbps RJ-45 Port; Status and Network LEDs
Auto Tracking / Analytics:	single, multiple, panoramic scenes / Tripwire, Perimeter protection, loitering, abandoned objects, missing objects detection; face detection, illegal parking, speed
Network Protocol:	HTTP, TCP/IP, ICMP, RTSP, RTP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server
Web Server:	Intuitive Browser Interface, Internet Explorer
Compatible with:	DNA3750, DNA3800, DNA4000, DNA5000 NVR Appliances
CPU Requirement:	Intel Core 4 Quad 2GHz or higher for Client

