

# DNA1792YM24

## 2MP 40x Zoom

### D/N IR PTZ Positioning System

### Auto Tracking / Analytics



#### DESCRIPTION

The DNA1792YM24 Series are 1/1.8" CMOS 2MP Network IP Day/Night IR PTZ Camera Positioning systems with 40X Optical, 16x Digital Zoom. Units are designed with high quality Encoder H.265/H.264/MJPEG video compression, configurable triple stream outputs at 25/30fps 2MP (1920x1080) providing outstanding quality images under Starlight low illumination; pan/tilts, enclosures, telemetry receiver drivers into rugged system. Features are: Auto Tracking, built-in intelligent analytics (IVS), 10 IR HP LEDs for 400m night vision. Included are EIS, Defog, and OSD with 300 presets, 5 Auto Scan, 5 Patterns, 8 Tours, up to 24 privacy zones, 3DNR and WDR (120dB). With 36VDC voltage, BNC port, RS-485, duplex Audio, 7 Alarms in/2 Relays out, Smart Phone Interface, Heater, Fan, Defogger, Wiper, ONVIF compliance and IP67 the DNA1792YM24 series IP D/N IR PTZ Positioning Systems with Auto Tracking and Analytics are serious solutions for commercial, industrial video surveillance installations.

#### FEATURES

- \* Network 2MP D/N IR Integrated Positioning PTZ
- \* 1/1.8" Starvis CMOS Scan Sensor; 120dB WDR
- \* Illumination Starlight Color 0.001/F1.4/0Lux IR ON
- \* H.265/H.264/MJPEG and configurable triple Stream
- \* 2MP 1920x1080 Res.; 40x optical, 16x digital zoom
- \* Auto Tracking with Alarm Trigger Events
- \* 10 High Power IR LEDs for >400m Night Vision
- \* Built-in Analytics: Tripwire, Perimeter Protection, Loitering, Abandoned Objects, Missing Objects
- \* Face detection, Scene Change, Camera Tamper
- \* OSD: D/N, AGC, WB, 3DNR; EIS; CVBR, VBR
- \* 360° Continuous Pan Rotation; -90° to 45° Tilt
- \* 300 Presets; Auto Pan, 24 Privacy Zones
- \* Programmable 5 Auto Scans, 5 Patterns, 8 Tours,
- \* 10/100 Mbps Ethernet Compatible; RJ-45 LAN Port
- \* 1 Audio in/1 out; 7 Alarms in/2 out; RS-485
- \* Smart Phone Interface: iPhone and Android
- \* Aluminum Housing, Heater, Defogger, Wiper
- \* Available with 36VDC input voltage (included)
- \* Ethernet, Surge Protection; Micro SD Card (256GB)
- \* Compliance with CE, FCC, ROHS, ONVIF, IP67

#### ORDERING INFORMATION

- DNA1792YM24A3AS IP IR Integrated PTZ 40X 2MP, D/N, IR LEDs 400m WDR, NTSC, 36VDC
- DNA1792YM24B3AS IP IR Integrated PTZ 40X 2MP, D/N, IR LEDs 400m WDR, PAL, 36VDC



#### 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: 36VDC, 50/60Hz, 5A  
32W; IR and Heater on ≤62W

#### IR Lamp Specifications

Distance: LEDs 400m

#### 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: 32lbs (15Kg)  
Dimensions LxWxH: 14.4"(367mm), 8.4"(211mm), 19.6"(499mm)

#### Environmental Parameters

MTBF: 50,000 hours  
Housing with Wiper: Sun shield, auto running defroster / heater / fan  
Operating temperature: -40°F~158°F (-40°C~70°C)  
Operating humidity: 0~90% non-condensing

#### Regulatory Compliance:

CE, FCC, ROHS, ONVIF, IP67

#### Manufactured to:

ISO9001 Standards

Camera Parameters	DNA1792YM24
Image Sensor	1/1.8" Starvis CMOS Progressive Scan Image Sensor
Effective Pixels	2.0M (1920 x 1080)
Output Pixels:	1920(H)x1080(V)
Resolution (H) Pixels:	1080P / 720P / D1
Min. Illum. F1.4, 50 IRE:	Color 0.001Lux/F1.5, 0Lux IR ON
Frame Rate:	1080P/720P(1~30fps); D1(1~30fps)
Optical / Digital Zoom:	40X - 5.6mm ~ 224mm / 16x
View Angle: Wide x Tele	66.9°(W)~2.4°(T)
F-value:	F 1.4(wide) - F4.5(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
Signal to Noise Ratio:	> 55dB
Encoder/Parameters	DNA1792YM24
Video Compression:	H.265/H.264/MJPEG, 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, scene detection, camera tamper message
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:	DNA3700, DNA3750, DNA3800, DNA4000, DNA5000 NVR Appliances
CPU Requirement:	Intel Core 4 Quad 2GHz or higher for Client

