

# DNA1996YM84V

## D/N IR PTZ Domes

### 8MP 40x w/WDR/IK10

#### Auto Tracking/Analytics



#### DESCRIPTION

The DNA1996YM84V Series are 1/1.8" Starvis CMOS 8MP Network IP Day/Night IR PTZ Domes with 40X Optical, 16x Digital Zoom that represent state-of-the-art, DSP based camera technology. Units are designed with H.265/H.264/MJPEG video compression and configurable triple stream output 25/30fps 8MP (4K 3840x2160). 1080p, 720p, D1, CIF Resolutions are available providing outstanding quality images under Starlight low illumination - 0.0005BW/0Lux/IR on; with S/N Ratio >56dB. Features are: integrated camera module insert; installs easily into dome housing; connect / disconnect latches, Auto Tracking, built-in intelligent analytics (IVS), 10 HP IR LEDs up to 500m night vision, EIS and Defog. Included are 300 presets, receiver driver; OSD menu with programmable functions, 5 Scans, 5 Patterns, 8 Tours, 24 privacy zones, display date/time, compass/tilt angle, and WDR(120dB). With 36VDC/Hi POE, duplex Audio, RS-485, 7 Alarms in/2 out, Smart Phone Interface, ONVIF, IK10, IP67, the DNA1996YM84V series IP IR PTZ Domes with Auto Tracking, and Analytics are designed to meet demanding, commercial and industrial Network Video surveillance installations.

#### FEATURES

- \* Network 8.0MP Day/Night IR PTZ Dome, LED 500m
- \* 1/1.8" Starvis CMOS Scan Sensor; WDR 120dB
- \* Illumination Starlight 0.005Lux/F1.4/0Lux IR on
- \* H.265/H.264/MJPEG, Triple Stream Encoder
- \* 8.0MP with 40x Optical, 16x Digital Zoom
- \* Auto Tracking with Alarm Trigger Events
- \* Built-in Analytics: Tripwire, Perimeter protection, Loitering, Abandoned Objects, Missing Objects
- \* Face detection Scene Change, Camera Tamper
- \* Variable Bit Rate and Constant Bit Rate
- \* OSD: D/N, AGC, WB, WDR, 3DNR and EIS
- \* 300 Presets, Auto Pan, 24 Privacy Zones
- \* Programmable 5 Auto Scan, 5 Patterns; 8 Tours
- \* 10/100 Mbps Ethernet Compatible; RJ-45 LAN Port
- \* 7 Alarms in, 2 Alarms out, Audio input/output
- \* Smart Phone Interface: iPhone and Android
- \* Aluminum Housing Heater, Defog, Sunshield, Wiper
- \* 36VDC input Voltage, 50Hz/60Hz, Hi-POE
- \* Ethernet, Surge Protection; SD Card (256GB)
- \* Compliance CE, FCC, ROHS, ONVIF, IK10, IP67

#### ORDERING INFORMATION

DNA1996YM84A30CA5V IP IR PTZ Dome 8MP 40X, LED 500m, Wiper, NTSC, IK10, IP67, 36VDC/POE

DNA1996YM84B30CA5V IP IR PTZ Dome 8MP 40X, LED 500m, Wiper, PAL, IK10, IP67, 36VDC/POE



#### 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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#### Auto Tracking/Analytics



#### Video Specifications

Video Output: Composite BNC, NTSC/PAL  
 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

Programmable Presets: 300 with titles  
 Tours/Patterns/Scans: 8 / 5 / 5

Privacy Masking Zones: 24

Alarm Inputs/Outputs: 7 / 2

#### Electrical Parameters

Input Voltage/Cons.: 36VDC, 48W w/IR, Hi-POE  
 IR LEDs/ Distance: 500m; 2 near view, 8 far view

#### Mechanical Parameters

Materials: Die Cast Aluminum w/Sunshield  
 Waterproof, Wiper

Manual Pan Speed: 0.1° ~ 240°/sec/max  
 Manual Tilt Speed: 0.1° ~ 120° /sec/max  
 Preset Speed: 240° /sec Pan; 120° /sec Tilt  
 Rotation travel: Pan 360° continuous  
 Tilt Travel: -30°~+90°  
 Auto Flip Function: 180° Tilt  
 Motor: Stepping type  
 Fan and heater: Continuous fan; auto-start heater  
 Dimensions H x Dia.: 16.4"(416mm), 9.45"(260mm)  
 Weight: 20lbs(9Kg) w/ bracket

#### Environmental Parameters

Oper. Temperature Outdoor: -40°F~158°F(-40°C~70°C)  
 Storage Temperature: -40°F~158°F (-40°C~70°C)  
 Humidity: 0~95% (Non-condensing)

#### Regulatory Compliance

Agencies: CE, FCC, ROHS, ONVIF, IK10, IP67  
 Manufactured to: ISO9001

Camera Parameters	DNA1996YM84V - 8MP CMOS - 40X
Image Sensor	Progressive Scan 1/1.8" Starvis CMOS WDR 120dB
Effective Pixels	8.0M (3840 x 2160)
Signal to Noise Ratio:	>56dB
Resolution (H) Pixels:	3840x2160,1080P / 720P / D1
Min. Illum. F1.6, 50 IRE:	Color 0.005/0.0005BW/Lux/F1.4 / 0Lux/IR On
Frame Rate:	25/30fps @ 8MP, 1080P, 720P
Optical / Digital Zoom:	40X (5.6mm ~ 223mm) / 16X
View Angle: Wide x Tele	63.9°(Wide) ~ 2.0°(Tele)
F-value:	F 1.4 (wide) - F4.8 (telephoto)
Focus:	Auto/Manual (Far/Near)
IR Cut Filter Removable:	Auto(ICR) / Color / B/W
Digital Slow Shutter:	Yes
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
IRIS:	Auto / (Offset: Soft.)
BLC:	BLC /HLC / WDR
White Balance:	Auto, ATW, Indoor, Outdoor, Auto
Sync System:	Internal
Encoder/Parameters	DNA1996YM84V
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
Wireless Network:	IEEE 802.11a/b/d/e/g/h/i, 802.11n
Network Protocol:	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS
Web Server:	Intuitive Browser Interface, Internet Explorer
Operating System:	Compatible with DNA3700, DNA3750, DNA3800, DNA4000, DNA5000 Series NVR Appliances; WIN 8 / WIN 10 / WIN SERVER
CPU Requirement:	Intel Core 4 Quad 2GHz or higher

