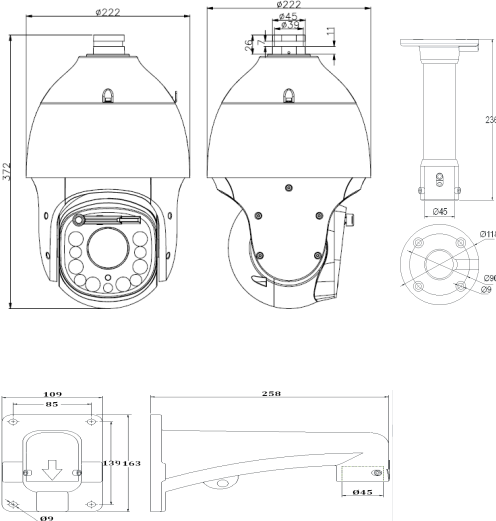




Features

- Autotracking Early Warning(AEW)
- IR LED+White Light+Green Laser
- Super Starlight Ultra Low Light 0.0008lux
- H.265/H.264 HP/MP/BP/M-JPEG Codec
- Up to 1920×1080@60fps
- Mechanical WDR 140dB
- Smart IR, IR Range: 400m
- Min. Illumination Color: 0.0008 Lux, B/W: 0.0001 Lux, 0 Lux with IR
- NIR, WDR, 3D DNR, HLC, Dual-ICR, AWB, AGC, BLC
- VCA Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Early Warning/Crowd/Audio Abnormal Detection/Video Abnormal Detection/Face Detection/People Counting/On duty Detection/Auto tracking
- Optical Zoom: 44x, Digital Zoom: 16x
- Speed Max 400°/s, -16~90° Tilt Angle
- Interface Built-in Mic, Built-in Speaker, Audio in/out 1/1, Alarm in/out 8/2, MicroSD Card Slot, up to 128GB, Reset Button, RS-485, BNC, TVS 6000V, Lightning/Surge 4000V Protection, IP67, IK10(Metal Body)• Operating Conditions -40°C-70°C, 0~95% RHG

Dimensions



Dimensions(Optional)

Model: DF20



DF21



Camera	
Image Sensor	1/1.8" CMOS
Effective Pixels	1920(H)x1080(V)
Signal System	PAL/NTSC
Minimum Illumination	Color: 0.0008 Lux @(F1.6, AGC ON) Black&White: 0.0002Lux @(F1.6, AGC ON) 0 Lux with IR
White Balance	Auto/ ATW/ Manual
AGC	Auto/ Manual
S/N Ratio	> 55dB
BLC	Y
HLC	Y
Smart Defog	Y
WDR	140dB
Digital Noise Reduction	3D DNR
Exposure Mode	Auto/ Manual/ Iris First/ Shutter First
Shutter Time	1/1s-1/100000s
Day& Night	Dual-ICR
Digital Zoom	16x
Privacy Masking	24 Dynamic Privacy Masks; Optional Multiple Colors
Auto Focus	Auto/ Semi-automatic/ Manual
OSD	16*16, 32*32, 24*24, 48*48, 64*64, 96*96 Character Size Time/Date/Week/Character Superposition in 5 Regions PTZ Angle Superposition
Lens	
Focal Length	4.9-216mm, 44x
Zoom Speed	Approx. 5s(Optical Wide-Tele)
Angle of View	60°(w)~2°(t)
Minimum Working Distance	1-1.5m(Wide-Tele)
Aperture Range	F1.5 ~ F4.8
Pan & Tilt	
Pan Range	360°endless
Pan Speed	Pan Manual Speed: 0.1°~400°/s Pan Preset Speed: 240°/s stepless
Preset Accuracy	±0.2°
Tilt Range	-16°~90° (Auto Flip)
Tilt Speed	Tilt Manual Speed: 0.1°~400°/s Tilt Preset Speed: 240°/s
Proportional Zoom	Rotation Speed Can Be Adjusted Automatically According to Zoom Multiples
3D Position	Y
Number of Preset	500
Scan	8
Cruise	8, up to 32 Presets per Cruise
Pattern	8, Each One With 600s Memory or 300 Orders
Power loss recovery	Y
Guard Action	Preset/ Cruise/ Pattern/ Scan
PTZ Position Display	Y
Freeze Frame	Y
RS-485 Protocols	PTZ_PELCO_D, PTZ_PELCO_P, PTZ_TC615_P, DOME_PELCO_D, DOME_PELCO_P, DOME_PLUS
Infrared	
IR Irradiation Distance	400m
IR Irradiation Angle	Adjustable by Zoom
Interface	
Audio Input	1-ch Mic in(Line in Interface) Line Input 2-2.4V(p-p); Output Impedance 1KΩ, ±10%
Audio Output	1-ch, Line level, Impedance: 600Ω, Built-in speaker optional
Ethernet	1-ch RJ45 10M/ 100M
Alarm Input	8-ch
Alarm Output	2-ch
On-board Storage	MicroSD Card Slot, up to 128GB
BNC	1.0Vp-p / 75Ω, NTSC (or PAL) Composite
RS-485	1-ch
Extension	N/A
Network	
Ethernet	10Base-T/100Base-TX RJ45 Connector
Max. Image Resolution	1920×1080
Main Stream	1920×1080@25/30fps; 1920×1080@50/60fps; 1280×960@25/30fps; 1280×960@50/60fps; 1280×720@25/30fps; 1280×720@50/60fps 640×480@25/30fps; 640×480@50/60fps 704×576@25/30fps; 704×576@50/60fps 704×480@25/30fps; 704×480@50/60fps
Sub Stream	704×576@25/30fps; 704×480@25/30fps; 704×288@25/30fps; 704×240@25/30fps; 352×240@25/30fps; 352×288@25/30fps;
Third Stream	1280×720@25/30fps; 640×480@25/30fps; 704×576@25/30fps; 704×480@25/30fps; 704×576@25/30fps; 704×480@25/30fps; 704×288@25/30fps; 704×240@25/30fps; 352×240@25/30fps; 352×288@25/30fps;
Image Compression	H.265/H.264, Encoding with Baseline/Main/High Profile
ROI Encoding	8 Dynamic Areas for Both Main and Sub Stream
Audio Compression	G711A/G711U/ADPCM/AAC
Protocols	IP4/IP6/ HTTP/ HTTPS/ 802.1x/ Qos/ FTP/ SMTP/ UPnP/ SNMP/ DNS/ DDNS/ NTP/ RTSP/ RTP/ TCP/ UDP/ IGMP/ ICMP/ DHCP/ PPPoE
Remote Connection	10 Users Access at the Same Time
User Permission	Up to 32 Users, 4 Levels
Security Measures	User Authentication (ID and PW), Host Authentication (MAC Address) IP Address Filtering
Web Browser	IE8, IE9, IE10, IE11, Firefox24
System Compatibility	ONVIF (Profile S), SDK
Advance	
Autotracking Early Warning(AEW)	Keep tracking the target that activates alarming, and enable the speaker to warn, even open the green laser for frightening
Video Analytics(IVA)	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Early Warning/Crowd/Audio Abnormal Detection/Video Abnormal Detection/Face Detection/People Counting/On duty Detection/Auto tracking
Smart-tracking	By Manual/ Panorama/Tripwire/ Perimeter/Early warning trigger
Intelligent Alarm	Harsh Voice Alarm, Motion Ddetection, Mask Alarm, Port Alarm, Network Disable Alarm, IP Conflict, MAC Conflict Detection
General	
Language	English, Spanish, Korean, Italian, Turkish, Thai, Russian, Traditional Chinese, Simplified Chinese, Polish, French
Operating Conditions	-40°C-70°C, 0~95% RHG
Power Supply	AC24V 3A
Power Consumption	18.55W(IR OFF)/ 35.5W(IR ON)
Circuit Protection	TVS 6000V, Lightning/ Surge 4000V Protection
Impact Protection	IP67, IK10(Metal Body)
Wiper	Y
Dimensions	372mmx222mmx222mm
Weight	5.45KG (IP PTZ Only), 8.15KG (with Packing Box)

* The latest product information / specification can be found at <http://en.tiandy.com/>

