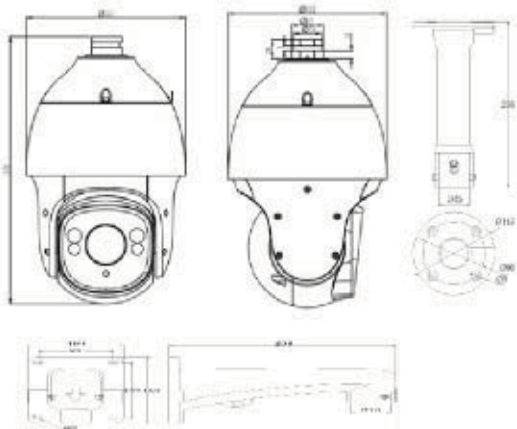




### Features

- Starlight Ultra Low Light 0.002lux
- H.265/H.264 HP/MP/BP/M-JPEG Codec
- Up to 1920x1080@30fps
- Mechanical WDR 140dB
- Smart IR, IR Range: 100m
- Min. Illumination Color: 0.002 Lux,B/W: 0.001 Lux, 0 Lux with IR
- Optical Zoom: 20x, Digital Zoom: 16x
- Speed Max 400°/s, -16~90° Tilt Angle
- NIR, WDR, 3D DNR, HLC, Dual-ICR, AWB, AGC, BLC
- VCA Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Crowd/Audio Abnormal Detection/Video Abnormal Detection"
- Interface Built-in Mic,Audio in/out 1/1,Alarm in/out 1/1,MicroSD Card Slot, up to 128GB, Reset Button
- TVS 6000V, Lightning/Surge 4000V Protection, IP67
- Operating Conditions -40°C-70°C, 0~95% RHG
- CE, FCC

### Dimensions



### Bracket(Optional)

Model: DF20

DF21



<b>Camera</b>	
Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H)x1080(V)
Signal System	PAL/NTSC
Minimum Illumination	Color: 0.002 Lux @(F1.5,AGC ON) Black&White:0.001Lux @(F1.5,AGC ON)
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	1s-1/100000s
Day& Night	Dual-ICR
Optical Zoom	20x
Digital Zoom	16x
Privacy Masking	24 Dynamic Privacy Masks Programmable; Optional Multiple Colors
Picture Overlay	200 × 200, BMP 24bit, Zone Configurable
OSD	16×16,32×32,24×24,48×48,64×64,96×96 Character Size
<b>Lens</b>	
Focal Length	5.2mm~98mm
Zoom Speed	Approx.<4s(Optical Wide-Tele)
Angle of View	55.8°(w)~3.2°(t)
Minimum Working Distance	1-1.5m(Wide-Tele)
Aperture Range	F1.5-F3.0
<b>Pan &amp; Tilt</b>	
Pan Range	360° Endless
Pan Speed	Pan Manual Speed: 0.1° -400°/s Pan Preset Speed: 240°/s
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
<b>Infrared</b>	
IR Irradiation Distance	100m
IR Irradiation Angle	Adjustable by Zoom
<b>Interface</b>	
Audio Input	1-ch Mic in(Line in Interface)
Audio Output	1-ch Line level, Impedance: 600Ω
Communication Interface	1-ch RJ45 10M/ 100M Ethernet Interface and
Alarm Input	1-ch
Alarm Output	1-ch
On-board Storage	MicroSD Card Slot,up to 128GB
BNC Output & RS485	N/A
Extension	N/A
<b>Network</b>	
Ethernet	10Base -T/100Base-TX RJ45 Connector
Max.Image Resolution	1920×1080
Main Stream	1920×1080@25/30fps;
Sub Stream	704×576@25fps/704×480@30fps
Third Stream	352×288@25fps/352×240@30fps
Image Compression	H.265/MJPEG/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	TCP/UDP/HTTP/MULTICAST/UPnP/DHCP/PPPoE/DDNS/NFS/FTP/NTP/RTP/RT
No. of Simultaneous Users	5 Users Access at the Same Time
User/Host Level	Up to 32 Users, 4 Levels
Web Browser	IE8,IE9,IE10,IE11,Firefox3.5+
System Compatibility	ONVIF (Profile S), SDK
<b>Advance</b>	
Video Analytics	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object
Intelligent Alarm	Cover Alarm, Port Alarm, Network Disable Alarm, IP Conflict, MAC Conflict
<b>General</b>	
Language	English,Spanish,Korean,Italian,Turkish,Thai,Russian,Traditional Chinese,Simplified
Operating Conditions	-40°C-70°C, 0~95% RHG
Power Supply	DC12V, POE+
Power Consumption	12.05W(IR OFF)/21.18W(IR ON )
Circuit Protection	TVS 6000V, Lightning/ Surge 4000V Protection
Impact Protection	IP67
Wiper	N/A
IR LEDs	4pcs
Dimensions	372mmx222mmx222mm
Weight	5KG (IP PTZ Only), 8.45KG (with Packing Box)

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