2016
PRODUCT
CATALOG

Northern★

The Security Professional's Choice For Video Surveillance Products

IP3B

3.0 Megapixel IP Outdoor IR Bullet Camera
POE, Full HD 1080P, 4mm IR Lens, DWDR, 65' IR, IP66

IP3B

Dimensions

81mm · 153.8mm · 60.4mm
71.7mm · 70.9mm · Ø4.4 · 35.6mm · 41.6mm
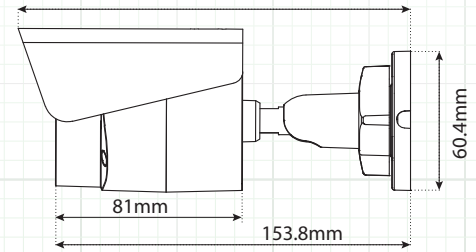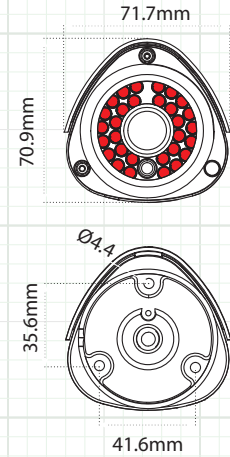
	SPECIFICATION	IP3B
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Minimum Illumination	0.19 Lux@ F2.0, AGC on / 0 Lux with IR
	IRLED Count / Range / Nanometer	30 IR LEDs / 65' Range / 850nm
	Shutter Time	1/30s ~ 1/100,000s
	Lens (IR Corrective)	4mm@F2.0, Angle of View: 70°
	Lens Mount	M12
	Camera Bracket Adjustment	3-Axis Design
	Day & Night	Yes - ICR Filter with Auto Switch
	DNR (Digital Noise Reduction)	3D DNR
	WDR (Wide Dynamic Range)	Digital WDR
	BLC (Backlight Compensation)	Yes, Zone Configurable
COMPRESSION	Video Compression	H.264 / MJPEG
	H.264 Codec Profile	Main Profile
	Bit Rate	32 Kbps ~ 16 Mbps
	Dual Streaming	Yes
IMAGE	Maximum Image Resolution	2048 x 1536
	Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
	Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser)
NETWORK	Network Storage	Compatible
	Alarm Trigger	Motion Detection, Tampering Alarm
	Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPOE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1x, Qos
	System Compatibility	ONVIF, PSIA, CGI
	Security Functions	User Authentication, Reset Button, Dual Stream, Heartbeat, Mirror, Watermark
	Communication Interface	1 RJ45 10M / 100M Ethernet Port
GENERAL	Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
	Housing Color	White/Black Accents
	Housing Material	Heavy Duty Aluminum
	Power Supply	12 VDC ± 10%, POE (802.3af)
	Power Consumption	Max. 5W (7W with ICR on)
	Weatherproof Rating	IP66
	Dimensions	60.4 x 76.5 x 138.1mm
	Weight	463g (1.0lbs)
	Certifications	UL / CUL

Note: Specification subject to change without notice

FEATURES

- ◆ Full HD 1080p / 720p Real Time Video
- ◆ Up to 2048 x 1536 Resolution (15FPS)
- ◆ POE - Power over Ethernet
- ◆ Free CMS & IP Server Software
- ◆ 4mm IR Lens
- ◆ Digital Wide Dynamic Range
- ◆ Digital Noise Reduction
- ◆ Mechanical IR Cut Filter
- ◆ 30 IR LED's - 65' IR Range
- ◆ ONVIF / PSIA / CGI Compliant
- ◆ IP66 Weatherproof
- ◆ UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Template & Hardware Packet

IP3VFB

3.0 Megapixel IP Outdoor Varifocal IR Bullet Camera
POE, Full HD 1080P, 2.8~12mm IR Lens, DWDR, 100' IR, IP66

90.1mm

Ø4.2

35.6mm

62.6mm

255.3mm

104.8mm

132.9mm

239.3mm
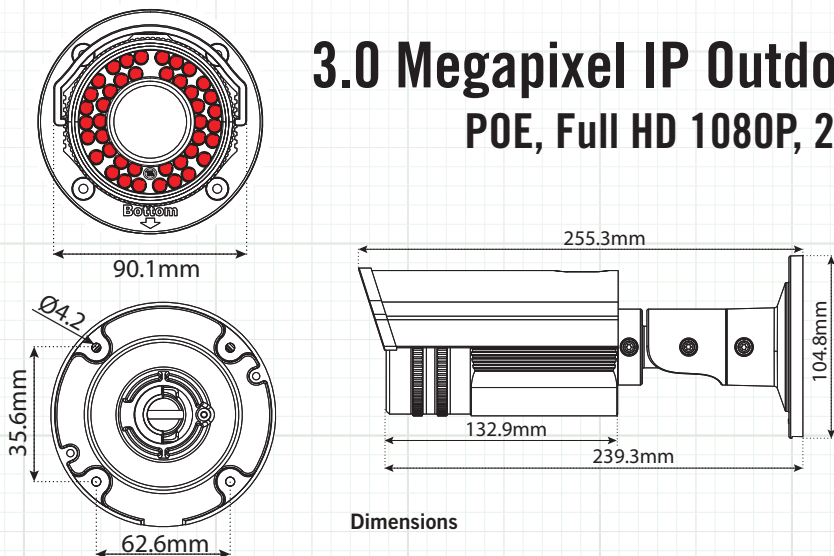
Dimensions

IP3VFB

SPECIFICATION		IP3VFB
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Minimum Illumination	0.095 Lux@ F1.4, AGC on / 0 Lux with IR
	IRLED Count / Range / Nanometer	42 IR LEDs / 100' Range / 850nm
	Shutter Time	1/30s ~ 1/100,000s
	Lens (IR Corrective)	2.8~12mm @ F1.4, Angle of View: 91° ~ 28°
	Lens Mount	Φ 14
	Camera Bracket Adjustment	3-Axis Design
	Day & Night	Yes - ICR Filter with Auto Switch
	DNR (Digital Noise Reduction)	3D DNR
	WDR (Wide Dynamic Range)	Digital WDR
	BLC (Backlight Compensation)	Yes, Zone Configurable
	On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB
COMPRESSION	Video Compression	H.264 / MJPEG
	H.264 Codec Profile	Main Profile
	Bit Rate	32 Kbps ~ 16 Mbps
	Dual Streaming	Yes
IMAGE	Maximum Image Resolution	2048 x 1536
	Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
	Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser)
NETWORK	Network Storage	Compatible
	Alarm Trigger	Motion Detection, Tampering Alarm, Network Disconnect, IP Address Conflict, Storage Full, Storage Error
	Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPOE, SMTP, NTP, UPnP, ICMP,IGMP,SNMP, FTP, 802.1X, QoS, HTTPS
	System Compatibility	ONVIF, PSIA, CGI
	Security Functions	User Authentication, Reset Button, Dual Stream, Watermark
	Communication Interface	1 RJ45 10M / 100M Ethernet Port
GENERAL	Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
	Housing Color	White
	Housing Material	Heavy Duty Aluminum
	Power Supply	12 VDC ± 10%, POE (802.3af)
	Power Consumption	Max. 5W (7W with ICR on)
	Weatherproof Rating	IP66
	Dimensions	95 x 105 x 258.6 mm (3.74" x 4.13" x10.18")
	Weight	1200g (2.65lbs)
	Certifications	UL / CUL

Note: Specification subject to change without notice

FEATURES

- Full HD 1080p / 720p Real Time Video
- Up to 2048 x 1536 Resolution (15FPS)
- POE - Power over Ethernet
- Free CMS & IP Server Software
- SD-Card Slot (card sold separately)
- Junction Box with 3/4" Conduit Access
- 2.8 ~12mm Varifocal IR Lens
- Digital Wide Dynamic Range
- Digital Noise Reduction
- Mechanical IR Cut Filter
- 42 IR LED's - 100' IR Range
- ONVIF / PSIA / CGI Compliant
- IP66 Weatherproof
- UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Template & Hardware Packet
1. Junction Box
1. L-Style Wrench
1. Video Test Cable

3.0 Megapixel IP Outdoor IR Dome Camera
POE, Full HD 1080P, 2.8mm IR Lens, DWDR, 100' IR, IP66

Dimensions

Ø111mm

82.4mm

Ø79.1mm

Ø100.4mm
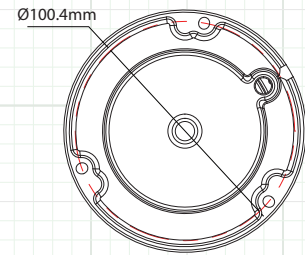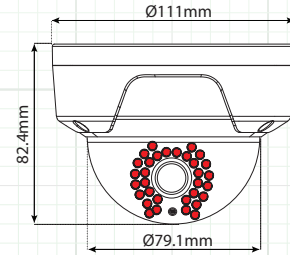
IP3D

SPECIFICATION		IP3D
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Minimum Illumination	0.095 Lux@ F1.4, AGC on / 0 Lux with IR
	IRLED Count / Range / Nanometer	30 IR LEDs / 100' Range / 850nm
	Shutter Time	1/30s ~ 1/100,000s
	Lens (IR Corrective)	2.8mm @ F2.0, Angle of View: 95.8°
	Lens Mount	M12
	Camera Bracket Adjustment	3-Axis Design
	Day & Night	Yes - ICR Filter with Auto Switch
	DNR (Digital Noise Reduction)	3D DNR
	WDR (Wide Dynamic Range)	Digital WDR
	BLC (Backlight Compensation)	Yes, Zone Configurable
	On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB
COMPRESSION	Video Compression	H.264 / MJPEG
	H.264 Codec Profile	Main Profile
	Bit Rate	32 Kbps ~ 16 Mbps
	Dual Streaming	Yes
IMAGE	Maximum Image Resolution	2048 x 1536
	Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
	Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser)
	Network Storage	Compatible
NETWORK	Alarm Trigger	Motion Detection, Tampering Alarm, Network Disconnect, IP Address Conflict, Storage Full, Storage Error
	Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPOE, SMTP, NTP, UPnP, ICMP,IGMP,SNMP, FTP, 802.1X, QoS, HTTPS
	System Compatibility	ONVIF, PSIA, CGI
	Security Functions	User Authentication, Reset Button, Dual Stream, Watermark
	Communication Interface	1 RJ45 10M / 100M Ethernet Port
GENERAL	Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
	Housing Material	Heavy Duty Aluminum
	Housing Color	White
	Power Supply	12 VDC ± 10%, POE (802.3af)
	Power Consumption	Max. 5W with ICR on
	Weatherproof Rating	IP66
	Dimensions	Φ 111 x 82 mm (Φ 4.4" x 3.2")
	Weight	500g (1.1bs)
	Certifications	UL / CUL

FEATURES

- Full HD 1080p / 720p Real Time Video
- Up to 2048 x 1536 Resolution (15FPS)
- POE - Power over Ethernet
- Free CMS & IP Server Software
- SD-Card Slot (card sold separately)
- 2.8mm Wide Angle IR Lens
- Digital Wide Dynamic Range
- Digital Noise Reduction
- Mechanical IR Cut Filter
- 30 IR LED's - 100' IR Range
- ONVIF / PSIA / CGI Compliant
- IP66 Weatherproof
- UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Plate
1. Mounting Template & Hardware Packet
1. L-Style Wrench
1. Video Test Connector
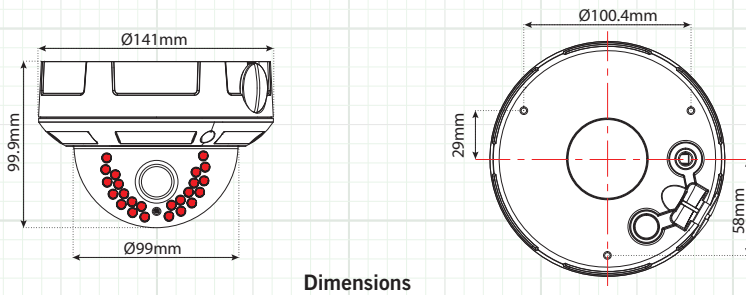
Note: Specification subject to change without notice

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3.0 Megapixel IP Outdoor Varifocal IR Dome Camera
POE, Full HD 1080P, 2.8~12mm IR Lens, DWDR, 65' IR, IP66

Ø141mm
99.9mm
Ø99mm

Ø100.4mm
29mm
58mm

Dimensions

IP3VFD

SPECIFICATION	IP3VFD
CAMERA	
Image Sensor	1/3" Progressive Scan CMOS
Minimum Illumination	0.095 Lux@ F1.4, AGC on / 0 Lux with IR
IRLED Count / Range / Nanometer	24 IR LEDs / 65' Range / 850nm
Shutter Time	1/30s ~ 1/100,000s
Lens (IR Corrective)	2.8~12mm @ F1.4, Angle of View: 91° ~ 28°
Lens Mount	Φ 14
Camera Bracket Adjustment	3-Axis Design
Day & Night	Yes - ICR Filter with Auto Switch
DNR (Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	Digital WDR
BLC (Backlight Compensation)	Yes, Zone Configurable
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB
COMPRESSION	
Video Compression	H.264 / MJPEG
H.264 Codec Profile	Main Profile
Bit Rate	32 Kbps ~ 16 Mbps
Dual Streaming	Yes
IMAGE	
Maximum Image Resolution	2048 x 1536
Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser)
Network Storage	Compatible
NETWORK	
Alarm Trigger	Motion Detection, Tampering Alarm, Network Disconnect, IP Address Conflict, Storage Full, Storage Error
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPOE, SMTP, NTP, UPnP, ICMP,IGMP,SNMP, FTP, 802.1X, QoS, HTTPS
System Compatibility	ONVIF, PSIA, CGI
Security Functions	User Authentication, Reset Button, Dual Stream, Watermark
Communication Interface	1 RJ45 10M / 100M Ethernet Port
GENERAL	
Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
Housing Material	Heavy Duty Aluminum
Housing Color	White
Power Supply	12 VDC ± 10%, POE (802.3af)
Power Consumption	Max. 5.5W with ICR on
Weatherproof Rating	IP66
Dimensions	Φ 140 x 99.9 mm (Φ 5.51" x 3.94")
Weight	1000g (2.2lbs)
Certifications	UL / CUL

Note: Specification subject to change without notice

FEATURES

- Full HD 1080p / 720p Real Time Video
- Up to 2048 x 1536 Resolution (15FPS)
- POE - Power over Ethernet
- Free CMS & IP Server Software
- SD-Card Slot (card sold separately)
- 2.8 ~12mm Varifocal IR Lens
- Digital Wide Dynamic Range
- Digital Noise Reduction
- Mechanical IR Cut Filter
- 24 IR LED's - 65' IR Range
- ONVIF / PSIA / CGI Compliant
- IP66 Weatherproof
- UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Plate
1. Mounting Template & Hardware Packet
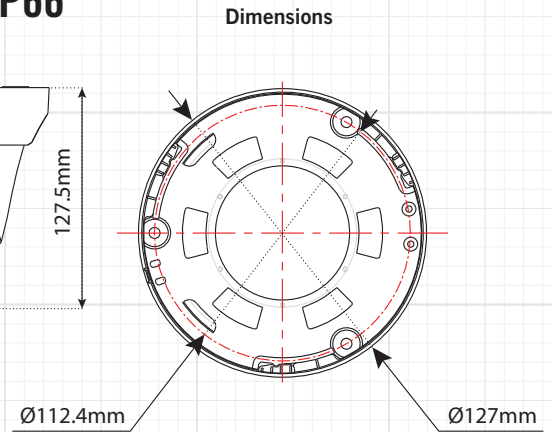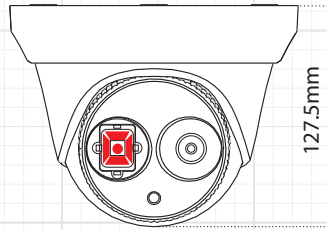1. L-Style Wrench
1. Video Test Connector

IP3T

3.0 Megapixel IP Outdoor IR Turret Camera
POE, Full HD 1080P, 2.8mm IR Lens, DWDR, 100' IR, IP66

Dimensions

IP3T

127.5mm

Ø112.4mm   Ø127mm

SPECIFICATION		IP3T
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Minimum Illumination	0.19 Lux@ F2.0, AGC on / 0 Lux with IR
	IRLED Count / Range / Nanometer	Single High Power LED / 100' Range / 850nm
	Shutter Time	1/30s ~ 1/100,000s
	Lens (IR Corrective)	2.8mm@F2.0, Angle of View: 86°
	Lens Mount	M12
	Camera Angle Adjustment	Pan: 0° ~ 360°, Tilt: 0° ~ 75°, Rotation: 0° ~ 360°
	Day & Night	Yes - ICR Filter with Auto Switch
	DNR (Digital Noise Reduction)	3D DNR
	WDR (Wide Dynamic Range)	Digital WDR
	BLC (Backlight Compensation)	Yes, Zone Configurable
COMPRESSION	Video Compression	H.264 / MJPEG
	H.264 Codec Profile	Main Profile
	Bit Rate	32 Kbps ~ 16 Mbps
	Dual Streaming	Yes
IMAGE	Maximum Image Resolution	2048 x 1536
	Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
	Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser
NETWORK	Network Storage	Compatible
	Alarm Trigger	Motion Detection, Tampering Alarm
	Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPOE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, Qos
	System Compatibility	ONVIF, PSIA, CGI
	Security Functions	User Authentication, Reset Button, Dual Stream, Heartbeat, Mirror, Watermark
	Communication Interface	1 RJ45 10M / 100M ethernet port
GENERAL	Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
	Housing Color	White
	Housing Material	Heavy Duty Aluminum / Plastic Ring Base Cover
	Power Supply	12 VDC ± 10%, POE (802.3af)
	Power Consumption	Max. 5.5W (7.5W with ICR on)
	Weatherproof Rating	IP66
	Dimensions	Φ 127 x 97.5 mm
	Weight	670g (1.5 lbs)
	Certifications	UL / CUL

FEATURES

- Full HD 1080p / 720p Real Time Video
- Up to 2048 x 1536 Resolution (15FPS)
- POE - Power over Ethernet
- Free CMS & IP Server Software
- 2.8mm Wide Angle IR Lens
- Digital Wide Dynamic Range
- Digital Noise Reduction
- Mechanical IR Cut Filter
- High Output LED - 100' IR Range
- ONVIF / PSIA / CGI Compliant
- IP66 Weatherproof
- UL/CUL Certified

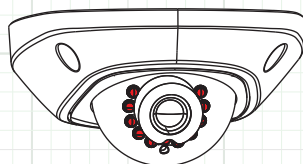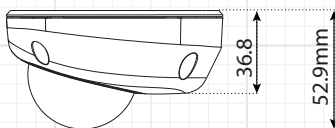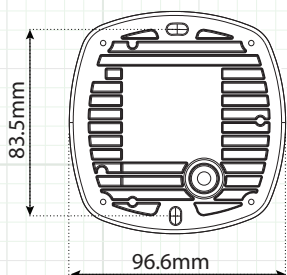## INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Template & Hardware Packet

Note: Specification subject to change without notice

Northern   855.388.7422 ♦ www.northernvideo.com

3.0 Megapixel IP Outdoor IR Wedge Camera
POE, Full HD 1080P, 2.8mm IR Lens, DWDR, 30' IR, IP66

Dimensions

83.5mm

96.6mm

36.8

52.9mm

IP3W

SPECIFICATION	IP3W
CAMERA	
Image Sensor	1/3" Progressive Scan CMOS
Minimum Illumination	0.19 Lux@ F2.0, AGC on / 0 Lux with IR
IRLED Count / Range / Nanometer	10 IR LED's / 30' Range / 850nm
Shutter Time	1/30s ~ 1/100,000s
Lens (IR Corrective)	2.8mm @F2.0, Angle of View: 86°
Lens Mount	M12
Camera Bracket Adjustment	Pan: ±30°, Tilt: 0~75°, Rotation: 0~360°
Day & Night	Yes - ICR Filter with Auto Switch
DNR (Digital Noise Reduction)	3D DNR
WDR (Wide Dynamic Range)	Digital WDR
BLC (Backlight Compensation)	Yes, Zone Configurable
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB
COMPRESSION	
Video Compression	H.264 / MJPEG
H.264 Codec Profile	Main Profile
Bit Rate	32 Kbps ~ 16 Mbps
Dual Streaming	Yes
IMAGE	
Maximum Image Resolution	2048 x 1536
Frame Rate	60Hz: 15fps (2048 × 1536), 30fps (1920 × 1080), 30fps (1280 × 720)
Image Settings	Saturation, Brightness, Contrast (adjustable through client software or web browser)
NETWORK	
Network Storage	Compatible
Alarm Trigger	Motion Detection, Tampering Alarm, Network Disconnect, IP Address Conflict, Storage Exception, Storage Error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
System Compatibility	ONVIF, PSIA, CGI
Security Functions	User Authentication, Reset Button, Dual Stream, Heartbeat, Mirror, Watermark
Communication Interface	1 RJ45 10M / 100M ethernet port
GENERAL	
Operating Conditions	-30°C ~ 60°C (-22°F ~ 140°F) Humidity 95% or Less (non-condensing)
Housing Color	White
Housing Material	Heavy Duty Aluminum / Plastic Ring Base Cover
Power Supply	12 VDC ± 10%, POE (802.3af)
Power Consumption	Max. 5.W with IR on
Weatherproof Rating	IP66
Dimensions	99.9 x 97.5 x 56.5
Weight	350g (0.78 lbs)
Certifications	UL / CUL

FEATURES

♦ Full HD 1080p / 720p Real Time Video

♦ Up to 2048 x 1536 Resolution (15FPS)

♦ POE - Power over Ethernet

♦ Free CMS & IP Server Software

♦ SD-Card Slot (card sold separately)

♦ 2.8mm Wide Angle IR Lens

♦ Digital Wide Dynamic Range

♦ Digital Noise Reduction

♦ Mechanical IR Cut Filter

♦ 24 IR LED's - 30' IR Range

♦ ONVIF / PSIA / CGI Compliant

♦ IP66 Weatherproof

♦ UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. Mounting Template & Hardware Packet
1. Mounting Plate
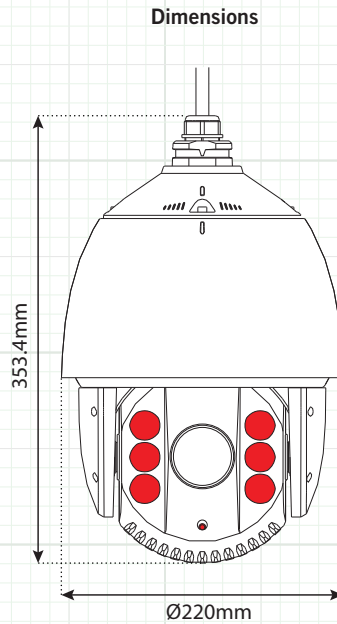1. L-Style Wrench
1. Camera Positioning Tool

Note: Specification subject to change without notice

IPPTZ30XIR

2.0 Megapixel Outdoor IP POE PTZ with 30x Zoom & 395" IR
Full HD 1080p, True D/N, DWDR, 3DNR, UL/CUL

IPPTZ30XIR

Dimensions

353.4mm

Ø220mm

FEATURES

♦ Full HD 1080P Real Time Video
♦ 30X (4.3~128mm) Optical Zoom Level
♦ POE - Power over Ethernet & 24VAC
♦ Free CMS & IP Server Software
♦ True D/N Mechanical IR Cut Filter
♦ SD-Card Slot (card sold separately)
♦ Digital Wide Dynamic Range
♦ Included 24VAC Power Supply
♦ 360° Endless Panning
♦ True D/N Mechanical IR Cut Filter
♦ 6 High Power IR LED's / 395' IR Range
♦ 2 Programmable Privacy Masks
♦ 300 Preset Positions
♦ 8 Patrols With up to 32 Presets Each
♦ ONVIF / PSIA / CGI Compliant
♦ IP66 Weatherproof
♦ Built in Heater & Fan
♦ -22°F Operating Temperature
♦ UL/CUL Certified

INCLUDED ACCESSORIES

1. Quick Guide
1. Software CD
1. L-Style Wrench
1. 1½" Pipe Thread Adapter (Male)
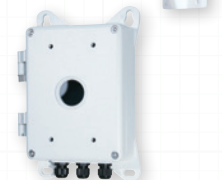1. 24 Volt AC Power Supply

MOUNTING ACCESSORIES

IPTVIWMT
Wall mount for
IPPTZ30XIR

IPTVIJB
Junction Box for
IPTVIWMT

SPECIFICATION	IPPTZ30XIR
Image Sensor	1/2.8" Progressive Scan CMOS
Image Resolution	2 Megapixel, 1920×1080 Max
Min. Illumination	Color : 0.02 Lux B/W : 0.002 Lux / 0 Lux with IR On
White Balance	Auto / Manual / ATW / Indoor / Outdoor / Daylight Lamp/Sodium Lamp
AGC	Auto / Manual
S/N Ratio	≥ 52dB
3D DNR	ON/OFF, Level 0~100
BLC	ON/OFF
HLC	ON/OFF
DWDR	ON/OFF, Level 0~100
Defog	ON/OFF
Shutter Speed	1-1/10,000s
True Day & Night	IR Cut Filter
Digital Zoom	16X
Privacy Mask	2 Programmable Privacy Masks
Focus Mode	Auto / Semi-Auto / Manual

Camera

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	FEATURES	IPPTZ30XIR
Lens	Focal Length	4.3-129mm, 30x / Aperture F1.6-F5.0
	Zoom Speed	Approx.3s (Optical Wide-Tele)
	Angle of View	65.1-2.34 degree (Wide-Tele)
	Min. Working Distance	10-1500mm (Wide-Tele)
Pan & Tilt	Pan Range	360° Endless
	Pan Speed	Pan Manual Speed: 0.1°-160°/s - Pan Preset Speed: 240°/s
	Tilt Range	-15°-90° (Auto Flip)
	Tilt Speed	Tilt Manual Speed: 0.1°-120°/s - Tilt Preset Speed: 200°/s
	Proportional Zoom	Rotation Speed Adjusted Automatically According to Zoom
	Number of Presets	300
	Park Action	Pattern / Pan & Tilt Scan / Frame Scan / Panorama Scan / Random Scan
	Patrol	8 Patrols, up to 32 Presets per Patrol
	Power-off Memory	Support
	Position Display	On / Off
	Preset Freezing	Support
	Scheduled Task	Auto Scan / Frame Scan / Random Scan / Patrol / Pattern / Preset / Panorama Scan / Tilt Scan / Dome Reboot / Dome Adjust / Aux Output
IR	IR Distance	395'
	IR Intensity	Automatically Adjusted, Depending on the Zoom Ratio
Input / Output	Alarm Input	2 (0-5v DC)
	Alarm Output	1 Relay Output, Alarm Response Actions Configurable
	Alarm Trigger	Intrusion Detection, Line Crossing Detection, Motion Detection, Audio Exception Detection, Dynamic Analysis, Tampering Alarm, Network disconnect, IP Address Conflict, Storage Exception
	Alarm Actions	Preset, Patrol, Pattern, Recording, Relay Output, Upload Center, Upload FTP, Email Linkage
	Audio Input	1 Audio Input (Mic/Line in), 2-2.4V[p-p]; Output Impedance: 1KΩ, ±10%
	Audio Output	1 Output, Line Level, Impedance: 600Ω
Network	Ethernet	10Base-T / 100Base-TX, RJ45 Connector
	Image Resolution	1920×1080 Max
	Frame Rate	50Hz: 25 fps (1920×1080), 25 fps (1280×960) , 25 fps (1280×720) 60Hz: 30 fps (1920×1080), 30 fps (1280×960) , 30 fps (1280×720)
	Compression	H.264/MJPEG
	ROI Encoding	Support 2 Areas with Adjustable Levels
	Audio Compression	G.711/G.722/G.726/MP2L2
	Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPOE
	Simultaneous View	Up to 20 Live Views
	Dual Streams	Support
	SD Card	Micro SD Slot, up to 128GB, Edge Recording
	Users	Up to 32 users, 3 Levels: Administrator, Operator and User
	Security Measures	User auth. (ID and PW), Host auth. (MAC address), IP Address Filtering
System Integration	Application Programming Interface	Open-ended API, Support Onvif, PSIA and CGI
		Supports Cloud P2P
	Web Browser	IE 7+, Chrome 18 +, Firefox 5.0 +, Safari 5.02 +
	Power	Hi-POE & 24 VAC - Max. 40W(IR LED 12W, Heater 6W)
	Operating Temp.	-30°C-65°C(-22°F-149°F) - Humidity '90% or less
	Protection Level	IP66 - TVS 4,000V Lightning, Surge and Voltage Transient Protection
	Dimensions	Ø220×353.4mm (Ø8.66"×13.91")
	Certifications	UL / CUL
	Weight (approx.)	4.5kg(9.92lbs)

Note: Specification subject to change without notice

TVIDVR SERIES – HD-TVI 1080p DVR's

TVIDVR4   4-Channel HD-TVI DVR
TVIDVR8   8-Channel HD-TVI DVR
TVIDVR16   16-Channel HD-TVI DVR

HD-TVI 1080p

FEATURES

- ♦ 30FPS/Ch Real-Time Recording @ 720p
- ♦ 12FPS/Ch Recording @ 1080p
- ♦ Connects to Both TVI & 960H Analog Cameras
- ♦ 1 Channel IP Recording @ 2MP (TVIDVR4)
- ♦ 2 Channel IP Recording @ 2MP (TVIDVR8/TVIDVR16)
- ♦ Up to 12TB Storage Capacity (16Ch)
- ♦ Up to 6TB Storage Capacity (4-8Ch)
- ♦ H.264 Recording Compression
- ♦ Redundant Recording (16Ch w/2x HDD Only)
- ♦ Full Mobile Apps for iPhone, iPad & Android
- ♦ Compatible with IE, Chrome, Firefox & Safari Browsers
- ♦ Built-in Motion Detection & Privacy Mask
- ♦ Up to 16Ch Synchronous Playback
- ♦ Free DDNS Included
- ♦ Free CMS Software Included
- ♦ Supports P2P Operation
- ♦ Included Mouse & IR Remote
- ♦ Dual USBs for Copying Video & Mouse Control
- ♦ Simultaneous HDMI & VGA Video Outputs
- ♦ Rack Mount Hardware Included (TVIDVR16)
- ♦ Built-in Audio & Alarm
- ♦ Supports 2-Way Audio

Full Mobile Apps

Free Guarding Expert Mobile Apps for iPhone, iPad, Android, Android Tablets and Windows Phone

Guarding Expert

Free CMS Software

HD-TVI Series CMS Software shown on Northern★ LED21HDMI

Northern★

Learn More

Mobile Apps for iPhone, iPad & Android

View & Playback Video from multiple mobile devices.

Real Time 720p Recording

Record up to 30FPS per Channel @ 720p Resolution or up to 12FPS per Channel @ 1080p Resolution.

Up to 12TB Storage Capacity

Large Hard Disk storage capacity allows for longer storage of recorded video. 12TB max storage on 16 Channel, 6TB max on 4 & 8 Channel models.

Free CMS Software for PC & MAC

Connect to multiple DVRs from a single computer with the included CMS software is also compatible with NVRPOE Series NVR's & IP3 Series cameras.

Mouse & IR Remote Control

Easily control the DVR from the included Mouse or IR Remote Controller.

HDMI & VGA Video Outputs

Simultaneously display video through both VGA & HDMI monitor outputs.

Built in Motion Detection

Maximize your recording time by only recording when Motion is detected by the DVR.

Built in DDNS

Free DDNS insures you will always stay connected to your DVR when using a Dynamic IP address.

P2P Operation

Peer to Peer functionality makes set up easier by bypassing the need to configure port forwarding in most routers.

Dual USB Ports

DVR's include front and rear USB ports for making copies of video and controlling the DVR with a mouse.

Remote Accessibility

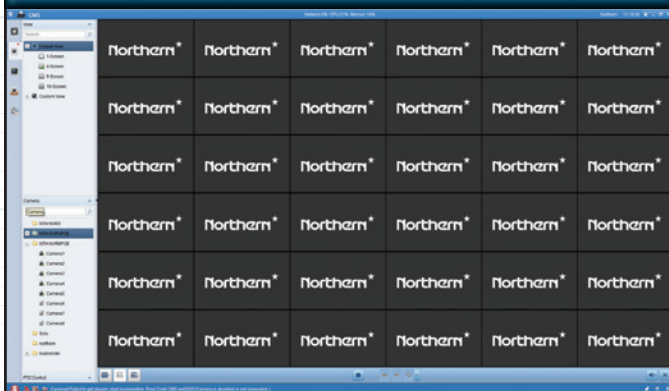Remotely connect, monitor, playback, record and change DVR settings via IE, Firefox, Chrome and Safari Browsers

960H Compatibility

All DVR's are compatible with standard 960H analog cameras.
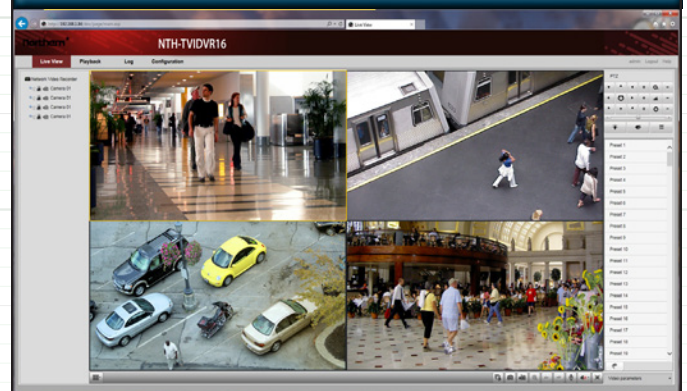
IP Camera Recording

4 Channel models can also record one additional IP Camera @ 2MP. 8 & 16 Channel models can record two additional IP cameras @ 2MP.

CMS Software For PC/Mac

Browser Based Remote Software

TVIDVR SERIES – HD-TVI 1080p DVR's

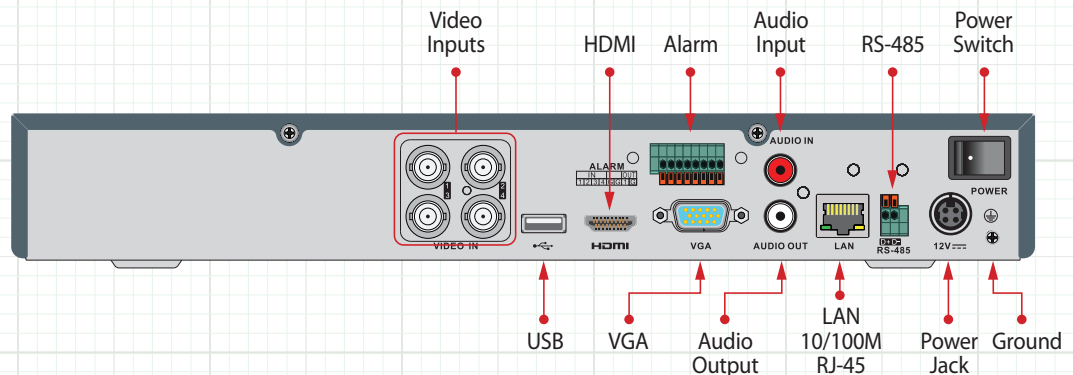## Hard Drive Configurations & Part Numbers / Package Contents

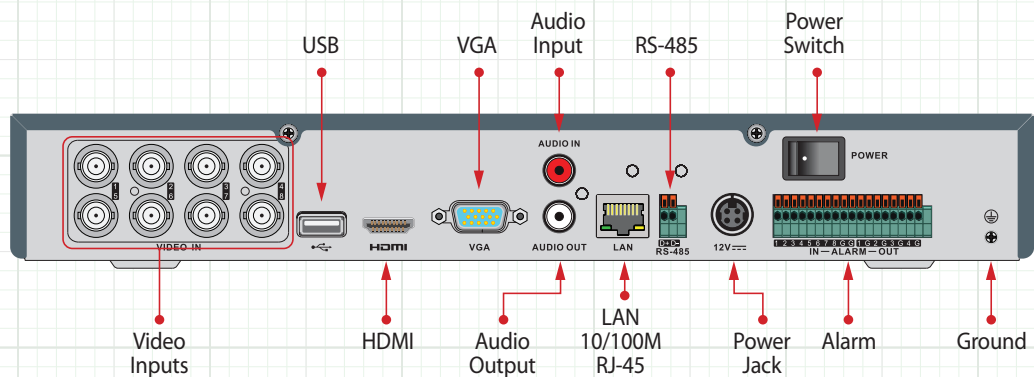| DRIVE SIZE	4 Channel	8 Channel	16 Channel
2TB	TVIDVR42T	TVIDVR82T	TVIDVR162T
4TB	TVIDVR44T	TVIDVR84T	TVIDVR164T
6TB	TVIDVR46T	TVIDVR86T	TVIDVR166T
8TB	N/A	N/A	TVIDVR168T
12TB	N/A	N/A	TVIDVR1612T

PACKAGE CONTENTS

1. Power Supply / Cord
1. IR Remote Control
1. Software CD
1. Quick Start Manual
2. Rack Mount Ears (16Ch)
1. Mouse

Rear Panel Connections

4 Ch. Models

Video Inputs — HDMI — Alarm — Audio Input — RS-485 — Power Switch — USB — VGA — Audio Output — LAN 10/100M RJ-45 — Power Jack — Ground

8 Ch. Models

USB — VGA — Audio Input — RS-485 — Power Switch — Video Inputs — HDMI — Audio Output — LAN 10/100M RJ-45 — Power Jack — Alarm — Ground

16 Ch. Models

USB — VGA — Audio Input — RS-485 — Power Switch — Ground — Video Inputs — HDMI — Audio Output — LAN 10/100/1000M RJ-45 — Power Jack — Alarm

Northern★   855.388.7422 ◆ www.northernvideo.com
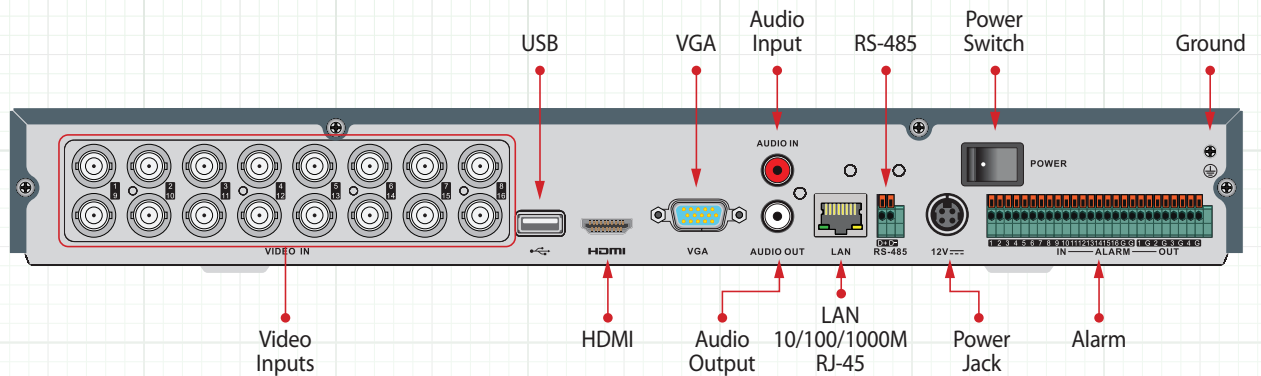
TVIDVR Series Specifications

| FEATURES	TVIDVR4	TVIDVR8	TVIDVR16
Video/Audio Input			
Video compression	H.264		
HD-TVI/960H Video Input	4-Channel	8-Channel	16-Channel
	BNC Interface (1.0Vp-p, 75 Ω)		
Supported Camera types	TVI ONLY - (720P/25, 720P/30, 720P/50, 720P/60, 1080P/25, 1080P/30), CVBS, Standard/960 Analog		
IP Video Input	1-Channel	2-Channel	
	Up to 2.0MP Resolution		
Audio Compression	G.711u		
Audio Input	1-Channel, RCA (2.0 Vp-p, 1 KΩ) - For both Audio/Two Way Audio		
Video/Audio Output			
HDMI / VGA output	1920 × 1080/60 Hz,1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz		
Encoding resolution	Main Stream: 1080P (15FPS) / 720P / VGA / WD1 / 4CIF / CIF		
	Sub-Stream: WD1(15FPS) / 4CIF(15FPS) / CIF / QCIF / QVGA		
Frame Rate	Main stream: 1/16 fps ~ Real time frame rate		
	Sub-stream: 1/16 fps ~ Real time frame rate		
Video Bitrate	32 Kbps-6 Mbps		
Audio Output	1-Channel, RCA (Linear, 1KΩ)		
Audio Bitrate	64 Kbps		
Dual-Stream	Supports		
Stream Type	Video, Video & Audio		
Playback Resolution	1080P / 720P / VGA / WD1 / 4CIF / CIF / QVGA / QCIF		
Recording & Playback			
Record Mode Types	Motion, Continuous, Alarm, Motion, Motion & Alarm		
Record Time Periods	8 Recording Time Periods with Separate Record Types		
Pre & Post Recording	Pre & Post Recording for Alarm & Motion Detection / Pre Recording for Schedule & Manual Recording		
Recording Parameters	Independent for Each Channel (Resolution, Frame Rate, Bit Rate, Image Quality, etc.)		
Redundant Recording	N/A		Yes - Only for 2 HDD configurations
Zooming	Available in Live View & Playback		
Synchronous Playback	4-Channel	8-Channel	16-Channel
Playback Controls	Pause, Reverse Play, Speed Up, Speed Down, Skip Forward, Skip Backward, Mouse Drag		
Searching	Search Recorded Files by Events (Alarm Input / Motion Detection)		
Network Mgmt.			
Remote Connections	128		
Network Protocols	TCP/IP, PPPOE, DHCP, EZVIZ Cloud P2P, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTPS		
Hard Disk			
SATA	1 SATA Interface		2 SATA Interfaces
Capacity	Up to 6TB Capacity For Each Disk		
Max Storage	6TB		12TB
External Interface			
Network Interface	1 x 10M / 100M Self-Adaptive Ethernet Interface		1 x 10M / 100M / 1000M Self-Adaptive Ethernet interface
RS-485	1; Standard RS-485 Serial Interface, Half-Duplex		
USB Interface	2 × USB2.0		
General			
Alarm In/Out	4-In/1-Out	8-In/4-Out	16-In/4-Out
Power Supply	12V DC		
Consumption - (no HDD)	≤ 15W	≤ 20W	≤ 30W
Operating Temperature	-10 ℃ ~+55 ℃ (14 °F ~ 131 °F)		
Operating Humidity	10% ~ 90%		
Chassis	1U Chassis		380mm 1U Chassis
Dimensions(W × D × H)	315 × 242 × 45mm (12.4 × 9.5 × 1.8 inch)		380 × 290 × 48mm (15.0 × 11.4 × 1.9 inch)
Weight (w/o Drives)	≤ 1.5Kg (3.3lb)		≤ 2Kg (4.4lb)

Note: Specification subject to change without notice

TVIBIR65

HD-TVI Full HD 1080p Outdoor 65' IR Bullet
OSD - True D/N - True WDR - IP66 - UL/CUL - 3.6mm Lens

HD-TVI 1080p

TVIBIR65

Dimensions

81mm
153.8mm
60.4mm

71.7mm
70.9mm
35.6mm
Ø4.4
41.6mm
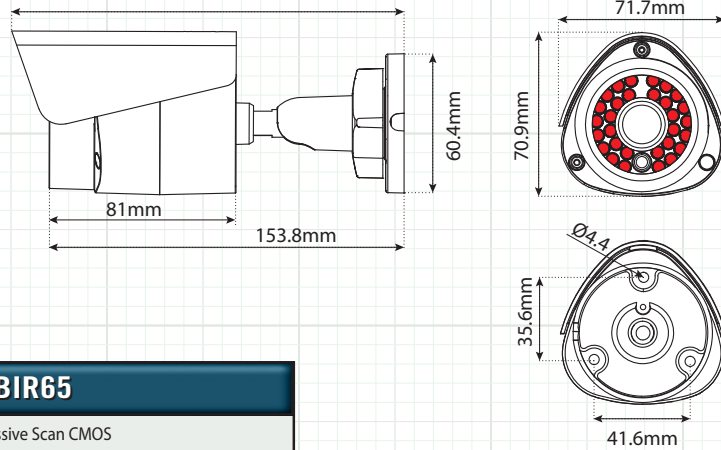
SPECIFICATION	TVIBIR65
Image Sensor	2MP Progressive Scan CMOS
Active Pixels	1944(H)*1092(V)
Resolution	1920 x 1080 (1080p) / 1280 x 720 (720p)
Scanning System	Progressive Scan
OSD (On Screen Display)	UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	120dB
3D Digital Noise Reduction	2DNR + 3DNR (Adjustable)
Video Output	HD-TVI & 960H BNC Video Connectors
Lens Type - True Day Night	IR Type, 3.6mm (82.6° FOV)
Sense-up	Auto (x2 ~ x32 Adjustable) / OFF
Shutter Speed	Auto / FLK / 1/30s ~ 1/50,000s
IR Cut Filter	Yes - Built in Mechanical
Minimum Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR
IR LED Count / Range	36 IR LED's / 65' / 850nM
S/N Ratio	More than 62dB
Automatic Gain Control	(0~15) Adjustable
Sync System	Internal Synchronization
White Balance	ATW / AWC-SET / MANUAL
Back Light Compensation	BLC / HSBLC / OFF / WDR
HSBLC	4 Zone (Adjustable)
Day/Night	Color/BW/EXT
Mirror	Mirror / V-Flip / Rotate / Off
Digital Zoom	(x2 ~ x62) Adjustable
Languages	English/ Japanese/ CHN1/ CHN2/ Korean/ German/ French/ Italian/ Spanish/ Polish/ Russian/ Portuguese/ Dutch/ Turkish/ Hebrew/ Arabic
Brightness	(1~100) Adjustable
Motion Detection	On/Off, Maximum 4 zones
Privacy Mask	On/Off, Maximum 8 zones
Power Input	12 VDC ±15%
Power Requirement	Max 4W
Overall Camera Dimensions	Φ70×149.5 mm (Φ2.76"×5.89")
Weight	Approx 0.79lb / 360g
Operating Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Weatherproof Rating	IP 66
Certifications	UL / CUL Certified

Note: Specification subject to change without notice

FEATURES

- 1/3", 2MP CMOS Sensor
- Full HD 1080P Resolution
- True Wide Dynamic Range
- True Day/Night Mechanical IR Cut Filter
- 3.6mm Fixed Focal IR Lens
- Sense-up / Slow Shutter Speed
- TVI & 960H Video Outputs
- UTC Controllable OSD
- 12 Volt DC Power
- 3D Digital Noise Reduction
- 36 LED's / 65' IR Range
- Cable Management Mount
- IP66 Weatherproof
- UL/CUL Certified

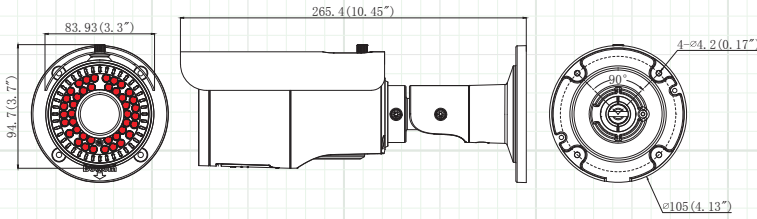## INCLUDED ACCESSORIES

1. User Manual
1. Mounting Hardware Packet
1. Mounting Template

Northern ★   855.388.7422 ◆ www.northernvideo.com

HD-TVI Full HD 1080p Varifocal 120' IR Bullet w/Motorized Lens

OSD - True D/N - True WDR - IP66 - UL/CUL - 2.8~12mm Lens

HD-TVI 1080p

Dimensions

83.93 (3.3″)
94.7 (3.7″)
265.4 (10.45″)
4-∅4.2 (0.17″)
∅105 (4.13″)

TVIMBIR120

SPECIFICATION	TVIMBIR120
Image Sensor	2MP Progressive Scan CMOS
Active Pixels	1944(H)*1092(V)
Resolution	1920 x 1080 (1080p) / 1280 x 720 (720p)
Scanning System	Progressive Scan
OSD (On Screen Display)	UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	120dB
3D Digital Noise Reduction	2DNR + 3DNR (Adjustable)
Video Output	HD-TVI & 960H BNC Video Connectors
Lens Type - Motorized	True Day Night, IR Type, 2.8~12mm @ F1.4 (103° - 32.1° FOV)
Sense-up	Auto (x2 ~ x32 Adjustable) / OFF
Shutter Speed	Auto / FLK / 1/30s ~ 1/50,000s
IR Cut Filter	Yes - Built in Mechanical
Minimum Illumination	0.014 Lux @ (F1.4,AGC ON),0 Lux with IR
IR LED Count / Range	42IR LED's / 120' / 850nM
S/N Ratio	More than 62dB
Automatic Gain Control	(0~15) Adjustable
Sync System	Internal Synchronization
White Balance	ATW / AWC-SET / MANUAL
Back Light Compensation	BLC / HSBLC / OFF / WDR
HSBLC	4 Zone (Adjustable)
Day/Night	Color/BW/EXT
Mirror	Mirror / V-Flip / Rotate / Off
Digital Zoom	(x2 ~ x62) Adjustable
Languages	English/ Japanese/ CHN1/ CHN2/ Korean/ German/ French/ Italian/ Spanish/ Polish/ Russian/ Portuguese/ Dutch/ Turkish/ Hebrew/ Arabic
Brightness	(1~100) Adjustable
Motion Detection	On/Off, Maximum 4 zones
Privacy Mask	On/Off, Maximum 8 zones
Power Input	12 VDC±15%, 24 VAC±15%
Power Requirement	Max 12W
Overall Camera Dimensions	Φ70×149.5 mm (Φ2.76″ ×5.89″)
Weight	Approx 0.79lb / 360g
Operating Temperature	-40 ℃ ~ 60 ℃ (-40 °F ~ 140 °F)
Heater	Built-in
Weatherproof Rating	IP 66
Certifications	UL / CUL Certified

Note: Specification subject to change without notice

FEATURES

- 1/3″, 2MP CMOS Sensor
- Full HD 1080p Resolution
- 2.8~12mm Motorized IR Lens
- True Wide Dynamic Range
- True D/N Mechanical IR Cut Filter
- Joystick & UTC Controllable OSD
- Easy Access OSD Hatch
- TVI & 960H Video Outputs
- Video Test Output/Cable (960H)
- Sense-up / Slow Shutter Speed
- 12VDC/24VAC Dual Voltage Power
- 3D Digital Noise Reduction
- 42 IR LED's / 120' IR Range
- Built-in Heater / -40° Operating Temp.
- 3-Axis Cable Management Mount
- IP66 Weatherproof
- UL/CUL Certified

INCLUDED ACCESSORIES

1. User Manual
1. Mounting Hardware Packet
1. Video Test Cable
1. L Style Wrench
1. Mounting Template

TVIDWMIR / TVIDWMIRW

HD-TVI, Full HD 1080p Outdoor IR Eyeball Camera
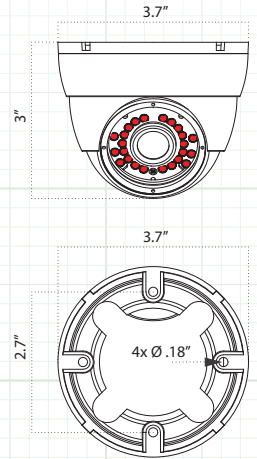### True D/N, 3DNR, UTC & Cable OSD, 3.6mm, 60' IR Range

TVIDWMIR

TVIDWMIRW
← Mounting Base
← Locking Collar

In-Line Cable Mounted OSD Control

HD-TVI 1080p

3.7"
3"
3.7"
2.7"
4x Ø .18"
Dimensions

SPECIFICATION	TVIDWMIR	TVIDWMIRW
Image Sensor	1/3" Sony CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	Dual Pigtail HD-TVI Main Output (yellow) / 960H Secondary Output (black)	
Lens Type - True Day Night	3.6mm Fixed Focal Lens	
Sense-up	Off / x2 ~ x30	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	0.0 Lux IR LED On	
IR LED Count / Range	24 IR LED's / 60' Range / 850nM	
S/N Ratio	More than 50dB	
Automatic Gain Control	0 ~100 Adjustable	
Sync System	Internal	
Gamma Characteristics	y = 0.45 typ.	
White Balance	ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	120mA / 450mA IR LED ON	
Overall Camera Dimensions	3.7" x 2.6" (95mm x 65mm)	
Housing / Color	Aluminum - Gray	Aluminum - White
Weight	.75 Lb.	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

Note: Specification subject to change without notice

FEATURES

♦ 1/3" Sony CMOS Sensor
♦ Full HD 1080p Resolution
♦ True Day/Night Mechanical IR Cut Filter
♦ Digital Wide Dynamic Range
♦ 3.6mm Fixed Focal Lens
♦ 3-Axis Wall or Ceiling Mountable
♦ Sense-up / Slow Shutter Speed
♦ UTC & Joystick Controllable OSD
♦ 3D Digital Noise Reduction
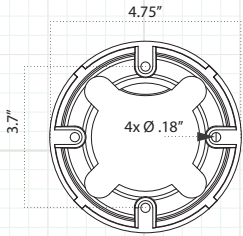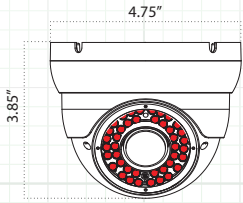♦ 24 IR LED's / 60' IR Range
♦ 12 Volt DC Power
♦ IP66 Weatherproof

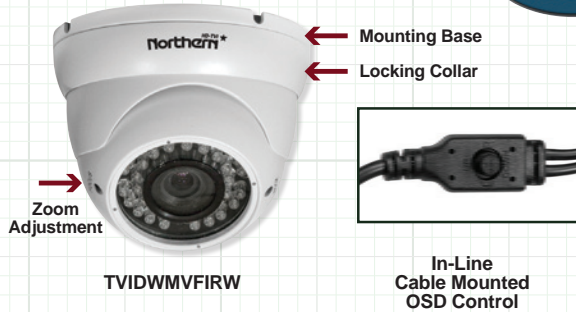### INCLUDED ACCESSORIES

1. Camera
1. User Manual
1. Mounting Screws

Northern ★   855.388.7422 ♦ www.northernvideo.com

TVIDWMVFIR / TVIDWMVFIRW

HD-TVI, Full HD 1080p Outdoor IR Eyeball Camera
True D/N, 3DNR, UTC & Cable OSD, 2.8-12mm, 90' IR Range

4.75"

3.85"

4.75"

3.7"

4x Ø .18"

Dimensions

HD-TVI 1080p

Mounting Base

Locking Collar

Zoom Adjustment

TVIDWMVFIRW

In-Line Cable Mounted OSD Control

TVIDWMVFIR

SPECIFICATION	TVIDWMVFIR	TVIDWMVFIRW
Image Sensor	1/3" Sony CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	Dual Pigtail HD-TVI Main Output (yellow) / 960H Secondary Output (black)	
Lens Type - True Day Night	2.8 12mm Varifocal Lens	
Sense-up	Off / x2 ~ x30	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	0.0 Lux IR LED On	
IR LED Count / Range	36 IR LED's / 90' Range / 850nM	
S/N Ratio	More than 50dB	
Automatic Gain Control	0 ~100 Adjustable	
Sync System	Internal	
Gamma Characteristics	y = 0.45 typ.	
White Balance	ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	180mA / 550mA IR LED ON	
Overall Camera Dimensions	4.7" x 3.4" (120mm x 88mm)	
Housing / Color	Aluminum - Gray	Aluminum - White
Weight	1.6 Lb.	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

Note: Specification subject to change without notice

FEATURES

- 1/3" Sony CMOS Sensor
- Full HD 1080p Resolution
- True Day/Night Mechanical IR Cut Filter
- Digital Wide Dynamic Range
- 2.8 ~ 12mm Varifocal Lens
- 3-Axis Wall or Ceiling Mountable
- Sense-up / Slow Shutter Speed
- UTC & Joystick Controllable OSD
- 3D Digital Noise Reduction
- 36 IR LED's / 90' IR Range
- 12 Volt DC Power
- IP66 Weatherproof

INCLUDED ACCESSORIES

1. Camera
1. User Manual
1. Mounting Screws

RECOMMENDED ACCESSORIES

4.7"

1.65"
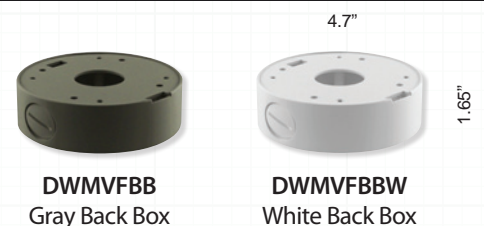
DWMVFBB
Gray Back Box

DWMVFBBW
White Back Box

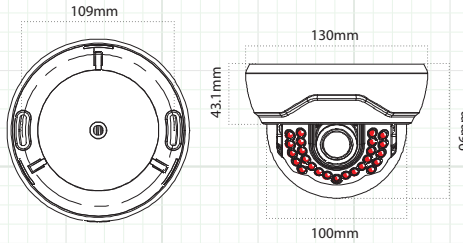# TVID212IR

HD-TVI, Full HD 1080p Indoor IR Dome Camera
True D/N, DWDR, 3DNR, UTC, 2.8~12mm, 82' IR Range

TVID212IR

HD-TVI 1080p

Dimensions
109mm
130mm
43.1mm
96mm
100mm

TVID212IR
Shown with Wall Mount
(included)

TVID212IR
Shown with White Cover
(included)

SPECIFICATION	TVID212IR
Image Sensor	1/2.9" Sony CMOS Sensor
Total Pixels	2010 (H) x 1108 (V)
Active Pixels	1944 (H) x 1092 (V)
Resolution	Digital: 1920 x 1080 (1080p), 1280 x 720 (720p) / Analog: 700TVL
Scanning System	Progressive Scan
OSD (Dual Access On Screen Display)	Internal Joystick Controlled / UTC (coaxial control)
Digital WDR (Wide Dynamic Range)	High / Middle / Low / OFF
3D DNR (Digital Noise Reduction)	High / Middle / Low / OFF
Video Output	HD-TVI Main Output with CVBS Internal Test Monitor Port
Lens Type - True Day Night	2.8 ~ 12mm Varifocal Auto Iris Lens
Sense-up	OFF / x2 - x8
Shutter Speed	Auto / Manual (1/30 ~ 1/60,000)
IR Cut Filter	Built-In Mechanical
Minimum Illumination	Color 0.002 Lux, B/W 0.001
IR LED Count / Range	24 IR LED's / 82' IR Range - 850nM
S/N Ratio	More than 50dB (AGC OFF)
Automatic Gain Control	0 ~ 20 Steps
Sync System	Internal / External (L/L)
Gamma	y = 0.45 typ.
White Balance	Auto / Autoext / Manual
Back Light Compensation	BLC (H/V Position & Size) / OFF
HLC (High Light Compensation)	ON / OFF
Day/Night	Auto_CDS / Color / B&W
Mirror	Rotate / V-Flip / H-Flip / Off
Digital Zoom	ON / OFF (x1 ~ x8)
Languages	English / French / Spanish / German / Italian
Brightness	Adjustable 0 ~ 20
Motion Detection	ON / OFF
Privacy Mask	ON / OFF (16 Zone Selectable)
Power Input	12VDC/24VAC Dual Voltage Power
Power Requirement	Max 600mA w/ IR LED
Reverse Polarity Protection	Yes
Overall Camera Dimensions	5.2" (W) x 3.8" (H)
Weight	Approx. 1.1lb
Operating Temperature	14°F ~ 122°F
Weatherproof Rating	Indoor Only

Note: Specification subject to change without notice

FEATURES

♦ Sony Progressive Scan CMOS

♦ Full HD 1080p Resolution

♦ True Day/Night Mechanical IR Cut Filter

♦ Digital Wide Dynamic Range

♦ 2.8 ~ 12mm Varifocal Auto Iris Lens

♦ 3-Axis Wall or Ceiling Mountable

♦ White & Black Housing Covers Included

♦ Sense-up / Slow Shutter Speed

♦ UTC & Joystick Controllable OSD

♦ 3D Digital Noise Reduction

♦ 24 IR LED's / 82' IR Range

♦ 12VDC/24VAC Dual Voltage Power

♦ Video Test Output & Cable (960H)

♦ Manual 360° Horizontal Rotation

♦ Lined Dome Cover

♦ Included Wall Mount

INCLUDED ACCESSORIES

1. User Manual
1. Mounting Hardware Packet
1. Video Test Cable
1. Wall Mount
1. White Housing Cover

TVIDTW212IR

HD-TVI, Full HD 1080p Outdoor **IR** Dome Camera
True D/N, DWDR, 3DNR, UTC, 2.8~12mm, 82' IR Range

Ø150.5mm

45mm

Ø100mm

Dimensions

109mm

96.6mm
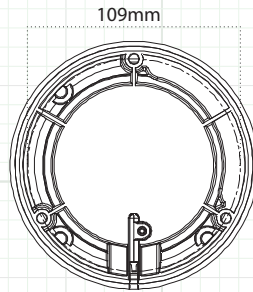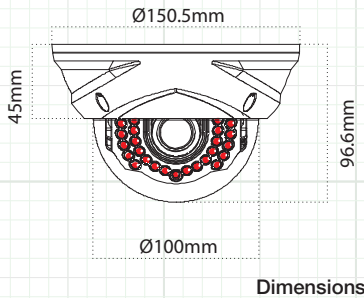
TVIDTW212IR
Shown with White Paintable
Snap-on Cover (included)

HD-TVI 1080p

TVIDTW212IR

SPECIFICATION

SPECIFICATION	TVIDTW212IR
Image Sensor	1/2.9" Sony CMOS Sensor
Total Pixels	2010 (H) x 1108 (V)
Active Pixels	1944 (H) x 1092 (V)
Resolution	Digital: 1920 x 1080 (1080p), 1280 x 720 (720p) / Analog: 700TVL
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Internal Joystick Controlled / UTC (coaxial control)
Digital WDR (Wide Dynamic Range)	High / Middle / Low / OFF
3D DNR (Digital Noise Reduction)	High / Middle / Low / OFF
Video Output	HD-TVI Main Output with CVBS Internal Test Monitor Port
Lens Type - True Day Night	2.8 ~ 12mm Varifocal Auto Iris Lens
Sense-up	OFF / x2 - x8
Shutter Speed	Auto / Manual (1/30 ~ 1/60,000)
IR Cut Filter	Built-In Mechanical
Minimum Illumination	Color 0.002 Lux, B/W 0.001
IR LED Count / Range	24 IR LED's / 82' IR Range - 850nM
S/N Ratio	More than 50dB (AGC OFF)
Automatic Gain Control	0 ~ 20 Steps
Sync System	Internal / External (L/L)
Gamma	y = 0.45 typ.
White Balance	Auto / Autoext / Manual
Back Light Compensation	BLC (H/V Position & Size) / OFF
HLC (High Light Compensation)	ON / OFF
Day/Night	Auto_CDS / Color / B&W
Mirror	Rotate / V-Flip / H-Flip / Off
Digital Zoom	ON / OFF (x1 ~ x8)
Languages	English / French / Spanish / German / Italian
Brightness	Adjustable 0 ~ 20
Motion Detection	ON / OFF
Privacy Mask	ON / OFF (16 Zone Selectable)
Power Input	12VDC/24VAC Dual Voltage Power
Power Requirement	Max 600mA w/ IR LED
Reverse Polarity Protection	Yes
Overall Camera Dimensions	5.9" (W) x 3.8" (H)
Weight	Approx. 2.0lb
Operating Temperature	-20°F ~ 122°F
Weatherproof Rating	IP 68

Note: Specification subject to change without notice

FEATURES

- ◆ Sony Progressive Scan CMOS
- ◆ Full HD 1080p Resolution
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ 2.8 ~ 12mm Varifocal Auto Iris Lens
- ◆ Tamper Resistant / IP68 Weatherproof
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ White Paintable Snap-on Cover Included
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ 24 IR LED's / 82' IR Range
- ◆ Video Test Output & Cable (960H)
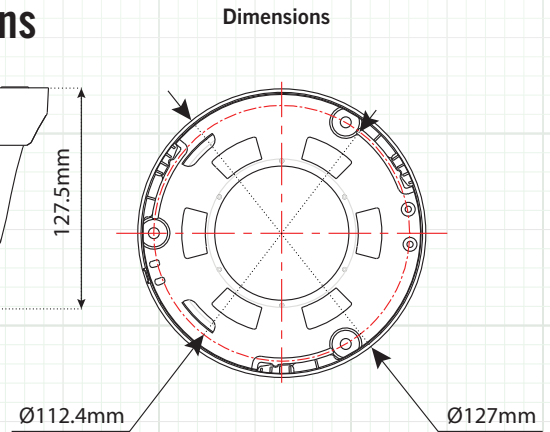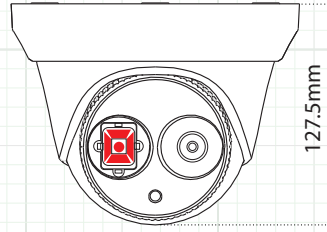- ◆ Manual 360° Horizontal Rotation

INCLUDED ACCESSORIES

1. User Manual
1. Mounting Hardware Packet
1. Video Test Cable
1. L-Style Wrench
1. White Paintable Snap-on Cover

TVITIR100

HD-TVI Full HD 1080p Outdoor 100' IR Turret
OSD - True D/N - True WDR - IP66 - UL/CUL - 2.8mm Lens

Dimensions

127.5mm

Ø112.4mm   Ø127mm

HD-TVI 1080p

TVITIR100

SPECIFICATION	TVITIR100
Image Sensor	2MP Progressive Scan CMOS
Active Pixels	1944(H)*1092(V)
Resolution	1920 x 1080 (1080p) / 1280 x 720 (720p)
Scanning System	Progressive Scan
OSD (On Screen Display)	UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	120dB
3D Digital Noise Reduction	2DNR + 3DNR (Adjustable)
Video Output	HD-TVI & 960H BNC Video Connectors
Lens Type - True Day Night	IR Type, 2.8mm (103.5° FOV)
Sense-up	Auto (x2 ~ x32 Adjustable) / OFF
Shutter Speed	Auto / FLK / 1/30s ~ 1/50,000s
IR Cut Filter	Yes - Built in Mechanical
Minimum Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR
IR LED Count / Range	1 High Output LED / 100' / 850nM
S/N Ratio	More than 62dB
Automatic Gain Control	(0~15) Adjustable
Sync System	Internal Synchronization
White Balance	ATW / AWC-SET / MANUAL
Back Light Compensation	BLC / HSBLC / OFF / WDR
HSBLC	4 Zone (Adjustable)
Day/Night	Color/BW/EXT
Mirror	Mirror / V-Flip / Rotate / Off
Digital Zoom	(x2 ~ x62) Adjustable
Languages	English/ Japanese/ CHN1/ CHN2/ Korean/ German/ French/ Italian/ Spanish/ Polish/ Russian/ Portuguese/ Dutch/ Turkish/ Hebrew/ Arabic
Brightness	(1~100) Adjustable
Motion Detection	On/Off, Maximum 4 zones
Privacy Mask	On/Off, Maximum 8 zones
Power Input	12 VDC±15%
Power Requirement	Max 5W
Overall Camera Dimensions	Φ114.6 × 89.1mm(Φ4.5″ × 3.5″)
Weight	Approx 0.94lb / 420g
Operating Temperature	-30 ℃ ~ 60 ℃ (-22 ℉ ~ 140 ℉)
Weatherproof Rating	IP 66
Certifications	UL / CUL Certified

Note: Specification subject to change without notice

FEATURES

- 1/3", 2MP CMOS Sensor
- Full HD 1080P Resolution
- True Wide Dynamic Range
- True D/N Mechanical IR Cut Filter
- 2.8mm Fixed Focal IR Lens
- Sense-up / Slow Shutter Speed
- TVI & 960H Video Outputs
- UTC Controllable OSD
- 12 Volt DC Power
- 3D Digital Noise Reduction
- 1 Super LED / 100' IR Range
- 3-Axis Wall or Ceiling Mountable
- IP66 Weatherproof
- UL/CUL Certified

INCLUDED ACCESSORIES

1. User Manual
1. Mounting Hardware Packet
1. Mounting Template

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