






Comparison Charts
Outdoor IP Cameras (IP66)

All Outdoor models can also be used as Indoors

Model	GRANDSTREAM GXV3674_HD/FHD_VF	GRANDSTREAM GXV3672_HD/FHD	GRANDSTREAM GXV3672_HD/FHD_36	GRANDSTREAM GXV3610_HD/FHD	GRANDSTREAM GXV3662_HD/FHD
Feature Highlight					
Video Compression	H.264 (Baseline/Main/High); MJPEG, JPEG	H.264 (Baseline/Main/High); MJPEG, JPEG	H.264 (Baseline/Main/High); MJPEG, JPEG	H.264 (Baseline/Main/High); MJPEG, JPEG	H.264, MJPEG, JPEG
Image Sensor	1/3" Progressive Scan CMOS; 1.2MP(HD) / 3.1MP(FHD)	1/3" Progressive Scan CMOS; 1.2MP(HD) / 3.1MP(FHD)	1/3" Progressive Scan CMOS; 1.2MP(HD) / 3.1MP(FHD)	1/3" Progressive Scan CMOS; 1.2MP(HD) / 3.1MP(FHD)	1/3" Progressive Scan CMOS; 1.2MP(HD) / 3.1MP(FHD)
Lens Type	1/3", 2.8mm ~ 12mm, F=1.4 Vari-Focal lens with DC-IRIS	1/3", M12 Mega, f=8mm, F=1.8	1/3", M12 Mega, f=3.6mm, F=1.8	1/3", M12 Mega, f=3.6mm, F=1.8	1/3", 3.3mm~12mm, F1.6~3.2, Vari-Focal lens with DC-IRIS
Max Video Resolution	1280 x 960 (HD); 2048 x 1536 (FHD)	1280 x 960 (HD); 2048 x 1536 (FHD)	1280 x 960 (HD); 2048 x 1536 (FHD)	1280 x 960 (HD); 2048 x 1536 (FHD)	1280 x 960 (HD); 2048 x 1536 (FHD)
Field Angle (FOV)	90° ~ 28° (Horizontal Field)	46°(D) x 36°(H) x 26.5°(V)	100.2°(D) x 77°(H) x 54°(V)	100.2°(D) x 77°(H) x 54°(V)	Manual Focus: 50cm - ∞, H: 89.8°- 23.9°, V: 63.6°- 17.9°
Shutter	1/10000 ~ 1/30 second, Auto	1/10000 ~ 1/30 second, Auto	1/10000 ~ 1/30 second, Auto	1/10000 ~ 1/30 second, Auto	1/10000 ~ 1/30 second, Auto
IR-CUT	Yes, Mechanical	Yes, Mechanical	Yes, Mechanical	Yes, Mechanical	Yes, Mechanical
Night Vision (IR LED Covered Distance)	Yes, 25 Meters Maximum	Yes, 30 Meters Maximum	Yes, 10 Meters Maximum	Yes, 10 Meters Maximum	No (0.05Lux Min. Illumination)
Sensitivity	5.48V/Lux-Sec, 550nm (HD); 1.9V/Lux-Sec, 550nm (FHD)	5.48V/Lux-Sec, 550nm (HD); 1.9V/Lux-Sec, 550nm (FHD)	5.48V/Lux-Sec, 550nm (HD); 1.9V/Lux-Sec, 550nm (FHD)	5.48V/Lux-Sec, 550nm (HD); 1.9V/Lux-Sec, 550nm (FHD)	5.48V/Lux-Sec, 550nm (HD); 1.9V/Lux-Sec, 550nm (FHD)
Audio Codec	G.711 (u/a), AAC	G.711 (u/a), AAC	G.711 (u/a), AAC	G.711 (u/a), AAC	G.711 (u/a), AAC
Audio Input	Line-In, 3.5mm, 1500ohms	Line-In, 3.5mm, 1500ohms	Line-In, 3.5mm	Built-in Mic.	Line-In (Internal Socket, 1500ohms)
Audio Output	Line-Out, 3.5mm, 600ohms	Line-Out, 3.5mm, 600ohms	Line-Out, 3.5mm, 600ohms	Line-Out, 3.5mm, 600ohms	Line-Out (Internal Socket, 600ohms)
SiP / VoIP Support	Yes	Yes	Yes	Yes	Yes
WDR	FHD Only	FHD Only	FHD Only	FHD Only	FHD Only
Privacy Mask Support	Yes, 4 Zones	Yes, 4 Zones	Yes, 4 Zones	Yes, 4 Zones	N/A
Smart IR	N/A	N/A	N/A	N/A	N/A
Alarm Input	N/A	N/A	N/A	N/A	Vin≤15V, Iin≤35mA, Normal Open (Internal Socket)
Alarm Output	Remote couple w. GXV3500 or GVR3550	Remote couple w. GXV3500 or GVR3550	Remote couple w. GXV3500 or GVR3550	Remote couple w. GXV3500 or GVR3550	125VAC/0.5A,30VDC/2A, Normal Open (Internal Socket)
PTZ	N/A	N/A	N/A	N/A	N/A
Embedded Analytics	Motion Detection	Motion Detection	Motion Detection	Motion Detection	Motion Detection
Multi-Streaming-rate	Yes, 2	Yes, 2	Yes, 2	Yes, 2	Yes, 2
Time-Lapse Photography	Yes	Yes	Yes	Yes	Yes
PoE	IEEE802.3af, Class 0	IEEE802.3af, Class 0	IEEE802.3af, Class 0	IEEE802.3af, Class 0	IEEE802.3af, Class 0
SDHC media Local Emergency Storage	N/A	N/A	N/A	N/A	Yes, SDHC: 1 (max. 32GB)
Security	HTTPS, Password, OSD Timestamp Watermark	HTTPS, Password, OSD Timestamp Watermark	HTTPS, Password, OSD Timestamp Watermark	HTTPS, Password, OSD Timestamp Watermark	HTTPS, Password, OSD Timestamp Watermark
Vandal Resistant	No	No	No	No	Yes
ONVIF Compliant	Yes	Yes	Yes	Yes	Yes
Dimensions	255mm x 104mm x 187mm	94mm x 230mm	94mm x 230mm	120mm x 100mm	153mm x 115mm
Weight	1100g	520g	520g	700g	1190g
Temperature/Humidity	Operating: -20°C ~ 50°C , 10~90% RH (non-condensing) Storage: -30°C ~ 60°C	Operating: -20°C ~ 45°C , 10~90% RH (non-condensing) Storage: -30°C ~ 60°C	Operating: -20°C ~ 45°C , 10~90% RH (non-condensing) Storage: -30°C ~ 60°C	Operating: -20°C ~ 50°C , 10~90% RH (non-condensing) Storage: -30°C ~ 60°C	Operating: -30°C ~ 50°C , 10~90% RH (non-condensing)
Power Adapter	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.0A	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.0A	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.0A	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.0A	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.0A

NOTE: Please choose camera based on the distance of area monitored and IR light coverage during night.
Usually short distance implies wide view angle camera required; long distance hints narrow view angle cameras. These are mutual exclusive choice. (Unless auto zoom-in/out lens used)

Comparison Charts
Indoor IP Cameras

All Outdoor models can also be used as Indoors



	GRANDSTREAM	GRANDSTREAM	GRANDSTREAM	GRANDSTREAM
Model	GXV3651_FHD	GXV3615WP_HD	GXV3611IR_HD	All Outdoor Models
Feature Highlight				
Video Compression	H.264, MJPEG, JPEG	H.264, MJPEG, JPEG	H.264, MJPEG, JPEG	
Image Sensor	1/2.5" Progressive Scan CMOS; 5 Megapixel FHD	1/3.2" low noise CMOS; 2 Megapixel HD	1 Megapixel Progressive Scan HD CMOS	
Lens Type	1/2", 4.5mm-10mm, CS Mount, Vari-Focal Lens with Manual-IRIS; Optional Auto-IRIS Lens	1/3", M12 Mega Lens f=4.2mm, F=1.8	M12 Mega Lens, f=2.8mm, F=1.8	
Max Video Resolution	2560x1920	1600x1200	1280x720	
Shutter	1/10000 ~ 1/30 second, Auto	1/100 ~ 1/20 second, Auto	Auto	
IR-CUT	Yes, Mechanical	N/A	Yes, Mechanical	
Night Vision	No (0.5Lux Minimal)	No (0.5Lux Minimal)	Yes, Smart IR	
Sensitivity	1.4V/Lux-Sec (550nm)	1.0V/Lux-Sec (550nm)	3300mV/(lux-sec)	
Audio Codec	G.711 (u/a), AAC	G.711 (u/a), AAC	G.711 (u/a), AAC	
Audio Input	Built-in Microphone, Additional Line-In, 3.5mm	Built-in Microphone	Built-in Microphone, Additional Line-In, 3.5mm, 1500ohms	
Audio Output	Line-Out, 3.5mm	Built-in Speaker	Built-in Speaker, Additional Line-Out, 3.5mm, 600ohms	
Video Output	BNC, Voltage 1.0V PP, Resistance 75Ohm	N/A	N/A	
SIP / VoIP Support	Yes	Yes	Yes	
Alarm Input	Yes, 1; Vins≤15V, Iins≤35mA, Normal Open, PINs	N/A	Yes, 1; Vins≤15V, PINs	
Alarm Output	Yes, 1; 125VAC/0.5A,30VDC/2A, Normal Open, PINs	Remote couple w. GXV3500 or GVR3550	Yes, 1; 125VAC/0.5A,30VDC/2A, Normal Open, PINs	
PTZ	RS-485; Pelco-P/D	N/A	N/A	
Embedded Analytics	Motion Detection	Motion Detection	Motion Detection	
Time Lapse Photography	Yes	Yes	Yes	
Multi-Streaming-rate	Yes, 2	Yes, 2	Yes, 2	
Privacy Mask Support	N/A	N/A	Yes, 4 Zones	
Smart IR	N/A	N/A	Yes	
PoE / Wi-Fi	IEEE802.3af, Class 0	IEEE802.3af, Class 2 AND Wi-Fi	IEEE802.3af, Class 2	
SDHC/USB2.0 Local Emergency Storage	SDHC: 1 (Max. 32GB); USB2.0: 1	MicroSDHC: 1 (Max. 32GB)	MicroSDHC: 1 (Max. 32GB)	
Security	HTTPS, Password, OSD, Timestamp Watermark	HTTPS, Password, OSD, Timestamp Watermark	HTTPS, Password, OSD Timestamp Watermark	
ONVIF Compliant	Yes	Yes	Yes	
Dimensions	152mm x 68mm x 64mm (w/o Lens)	90mm x 90mm x 45mm	138mm x 86mm	
Weight	510g (w/o Lens)	133g	400g	
Temperature/Humidity	Operating: 0°C ~ 45°C , 10-90% RH (non-condensing)	Operating: 0°C ~ 45°C , 10-90% RH (non-condensing)	Operating: 0°C ~ 45°C , 10-90% RH (non-condensing)	
Power Adapter	Input: 100-240VAC,50/60Hz (Global) Output: 12VDC/1.0A	Input: 100-240VAC,50/60Hz (Global) Output: 12VDC/0.5A	Input: 100-240VAC,50/60Hz (Global) Output: 12VDC/0.5A	

NOTE: All models with SD card can run as standalone (power required only) recording device with or without network hooked up. Idea for temporary recording of some one-time events, like party, meeting, etc., if the right sized SD card used.

Comparison Charts

IP Encoder/Decoder (Indoor Usage)



Converting Analogue Camera to IP/Digital


	GRANDSTREAM	GRANDSTREAM
Model	GXV3500	GXV3504
Feature Highlight		
Video Compression	H.264, MJPEG, JPEG	H.264, MJPEG, JPEG
Encoder	Yes, 1 Channel (En/De Mutual Exclusive)	Yes, 4 Channels
Decoder	Yes, 8 Channel Max. (En/De Mutual Exclusive)	No
Max Video Resolution	4CIF/D1	4CIF/D1
Video Input	BNC, 1	BNC, 4
Video Output	3.5mm, AV Cable to TV AV Input	No
Audio Input	3.5mm Line-in, 1500ohms	BNC, 4; 3.5mm Line-In
Audio Output	3.5mm, AV Cable to TV AV Input	3.5mm Line-Out
SIP / VoIP Support	Yes	Yes
Alarm Input	Yes, 1; Vin≤15V, PINs	Yes; 4
Alarm Output	Yes, 1; 125VAC/0.5A,30VDC/2A, Normal Open, PINs	Yes; 4
PTZ	RS-485; Pelco-P/D	RS-485; Pelco-P/D
Embedded Analytics	Motion Detection (Encoder Mode Only)	Motion Detection
Multi-Streaming-rate	Yes, 2	Yes, 2
Snapshot	Triggered upon events, send via email/FTP	Triggered upon events, send via email/FTP
Time Lapse Photograpy	Yes	N/A
PoE	IEEE802.3af, Class 2	IEEE802.3af, Class 3
SDHC/USB2.0 media Local Emergency Storage	N/A	Yes
Security	HTTPS, Password, Timestamp Watermark	HTTPS, Password, Timestamp Watermark
ONVIF Compliant	Yes	Yes
Dimensions	67mm x 34mm x 96mm	230mm x 155mm x 43mm
Temperature/Humidity	0°C ~ 45°C , 10–90% RH (non–condensing)	-10°C ~ 55°C , 10–90% RH (non–condensing)
Weight	121g or 4.3oz	1000g
Power Adapter	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/0.5A	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/1.5A

Comparison Charts

Network Video Recorder

Store recorded videos from IP Cameras via network

	GRANDSTREAM	GRANDSTREAM
Model	GVR3550	GVR3552
Feature Highlight		
Video Compression	H.264, MJPEG, JPEG	H.264, MJPEG, JPEG
Recording Mode	Continuous, Schedule, Event Trigger, Manual	Continuous, Schedule, Event Trigger, Manual
Internal HDD	Upto 4 HDD with maximum 16TB	Upto 2 HDD with maximum 4TB
Storage Redundancy	USB or eSATA	USB
RAID	RAID 0 or RAID1	RAID 0 or RAID1
HDMI Interface	1	1
VGA Interface	1	1
Network Interface	1 x 10/100/1000Mbps auto-sensing RJ45 port	1 x 10/100/1000Mbps auto-sensing RJ45 port
Line-In	1 x RCA	1 x RCA
Line-Out	1 x RCA	1 x RCA
Alarm Input	16 input, Vin 2.5v ~ 12V, Iin 2.5ma ~30mA	4 input, Vin 2.5v ~ 12V, Iin 2.5ma ~30mA
Alarm Output	2 output, 0.5A at 125VAC, 2A at 30VDC	2 output, 0.5A at 125VAC, 2A at 30VDC
Live View	Upto 16CH of VGA, 4CH of 720p, 2CH 1080p	Upto 8CH of VGA, 4CH of 720p, 2CH 1080p
QoS	Layer 2 and Layer 3 QoS	Layer 2 and Layer 3 QoS
Audio Recording	Synchronized audio and video recording	Synchronized audio and video recording
Audio Compression	G.711 (u-Law and a-Law)	G.711 (u-Law and a-Law)
IP Camera Supported	Grandstream IPC/Encoder and 3rd party ONVIF	Grandstream IPC/Encoder and 3rd party ONVIF
Provisioning	HTTP, HTTPS, ONVIF	HTTP, HTTPS, ONVIF
Security	HTTPS, SSH	HTTPS, SSH
Management	Syslog, Web Browser, SSH, GSurf_Pro	Syslog, Web Browser, SSH, GSurf_Pro
RTC	Yes	Yes
Dimensions	440mm (W) x 343.5mm (L) x 44mm (H)	347.5mm(W) x 212mm (L) x 57mm (H)
Temperature/Humidity	Operation: 0°C ~ 50°C ; Storage: -20°C to 60°C (not include HDD temperature) 10–90% RH (non–condensing)	Operation: 0°C ~ 50°C ; Storage: -20°C to 60°C (not include HDD temperature) 10–90% RH (non–condensing)
Weight	1U rack mount, 4kg	Desktop, 1.1Kg
Power Adapter	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/5A, 60Watt	Input: 100-240VAC,50/60Hz (Global); Output: 12VDC/3A, 36Watt

GRANDSTREAM	
GSurf_Pro V2	
Model	
Feature Highlight	
SYSTEM REQUIREMENT	
<i>Server:</i>	OS: Windows 2003/2008 Server; Windows XP SP2/SP3; Windows 7 32bit/64bit; Windows 8 Processor: Intel® Core™ i5; 2.6GHz or above Memory Capacity (RAM): 8GB or above Hard Drive Capacity: 500G (depending on recording requirement) Graphics Card Type: Discrete Graphics Card (NVIDIA GeForce® GTX660 or above recommended) Network Adapter: 1000Mbps network adapter
<i>Client:</i>	OS: Windows XP SP2/SP3; Windows Vista; Windows 7 32bit/64bit; Windows 8 Processor: Intel® Core 2 Duo™ or above Memory Capacity (RAM): 2GB or above Hard Drive Capacity: 250G (depending on recording requirement) Graphics Card Type: Discrete Graphics Card Recommended Network Adapter: 100Mbps network adapter, 1000Mbps recommended
MULTI-LANGUAGE SUPPORT	Yes (English, Chinese, Russian, Spanish, French, Portuguese)
TRANSMIT SERVER	Yes (Server as single source of video instead of individual cameras)
FILE SERVER	Yes (Centralized video recording file management for local and remote clients)
VIDEO	<i>Compression:</i> H.264, MJPEG <i>Resolution:</i> Support all resolutions from Grandstream cameras or encoder/decoder (FHD, HD, D1, VGA, CIF, QCIF, etc.)
REAL TIME MONITOR	<i>View Panel Layout:</i> 1, 4, 6, 8, 9, 16, 20, 25, 36, 72 <i>Manual Recording and Snapshot</i> Yes <i>Two-Way Audio & Video</i> Yes <i>Multiple Display</i> Yes (Support maximum 4 display screen, with related hardware supplied) <i>Zoom In Selected Area</i> Yes (Realtime zoom in selected region) <i>Image Delay or Fluency Adjustment</i> Yes <i>Re-open previously closed Video Stream</i> Yes <i>Full Screen Display</i> Yes (hidden tool bar when in full screen display mode) <i>Alarm & Log Display</i> Realtime alarm information and operation log display (when selected) <i>View Panel Arrangement</i> Drag and draw to change panel display arrangement <i>Polling Mode</i> Support manual selected video display or automatically patrol polling video display
RECORDING	<i>Manual Recording & Replay</i> Yes <i>Time Schedule Automatic Recording</i> Yes <i>Alarm/Event Triggered Recording</i> Yes <i>Smart Deletion</i> Yes
REPLAY	<i>Replay Mode</i> Play; Pause; Stop; Slow Forward; Fast Forward; Frame Forward; Mute; Snapshot during replay <i>File Searching</i> Support searching recorded video via Time, Device Name, Stored Disk, Channel or Alarm Event Type.
PTZ CONTROL	<i>PTZ Control</i> Yes (related hardware required, not provided) <i>PTZ Console Speed Control</i> Yes (related hardware required, not provided) <i>Pre-defined Position Configuration</i> Yes (Position Setup; Switching; Delete) <i>PTZ Automatic Patrol to Pre-set Position</i> Yes (Automatic Patrolling Pre-defined Positions)
ALARM ACTION	<i>Event Type</i> Motion detection; DO/DI input (3rd party I/O device, not provided) <i>Event Setup/Delete</i> Yes <i>Play Pre-recorded Alarm Audio</i> Yes <i>Pop-up Window reminding Alarm</i> Yes (when configured, pop up window displaying video from alarmed device) <i>Alarm event displayed in e-Maps</i> Yes (blinking alarm venue in e-Maps)
ELECTRONIC MAPS	<i>e-Map Management</i> Yes (Add, Configure, Delete) <i>e-Map Monitor</i> Yes (Blinking alarm venue; pop-up alarm video) <i>Layered e-Map</i> Yes, Supported
PROGRAM CONTROL	<i>Automatic Logon</i> Yes (when configured, automatic log on and load default setting and display arranged view panels) <i>User Management</i> Yes <i>Auto Run when Power On</i> Yes (when configured) <i>Lock System</i> Yes <i>Exit Authentication</i> Yes <i>Configuration Import/Export</i> Yes <i>System Status Report</i> Yes (Display CPU and Network Usage in real time) <i>Email System Operation Status</i> Yes (Log In, Modification, HDD Full, Add/Delete/Modify Device, Modify Group Property, Add/Delete/Modify e-Map)
UTILITY TOOLS	<i>AVI Conversion Tool</i> Converting H.264 format recording files to AVI format for portability. <i>SD Card File Batch Download</i> Batch download files recorded in the SD card (for some supported IPC models) <i>HTTP Server</i> Yes (Function as central HTTP f/w server to manage and upgrade firmware for all IP Cameras in LAN) <i>Search Tool</i> Search, change IP address, configure Wi-Fi (supported models) for all IPC in the LAN <i>Synchronize Device Time</i> Synchronize the time for all the IPCs with the server time.
AUTOMATIC UPDATE	<i>Software Version Automatic Upgrade</i> Yes