



## Automatic Camera Tracking System



# HD Video Camera Tracking System

GONSIN HD auto camera tracking system utilizes advanced technology and co-works with conference system. It can automatically track the speaker by the camera, and comprise of HD video tracking matrix, HD video conference camera and HD video signal switcher, to realize fluent and clear camera tracking image.

## ◆ HD Dome Camera

**GX-HD3310/3310S12/3310S30**

### ◆ Features

- ◆ Full HD video, super clear image
- ◆ Low noise, high SNR
- ◆ Wide range, high speed, low noise motion
- ◆ HD multiple video output formats
- ◆ Transparent transmission function of remote controller
- ◆ Support H.265/H.264 encoding
- ◆ Support multiple control protocols



### ◆ Basic functions

- ◆ **Superb high-definition image:** It employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.
- ◆ **Audio Input Interface:** Support 16000,32000,44100,48000 sampling frequency and AAC,MP3,PCM audio coding.
- ◆ **Quiet PTZ:** By adopting high accuracy step driving motor mechanism, it works extremely quiet and moves smoothly and very quickly to designated position.
- ◆ **Multi-Format Video Outputs:** support DVI (HDMI),3G SDI, wired LAN interfaces. The 3G-SDI is available for 100m transmission at 1080p60 format.
- ◆ **Low noise and High SNR:** Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.
- ◆ **Transparent transmission function of remote controller:** Support transparent transmission function, make the supporting equipments easy to operate.
- ◆ **Low-power sleep function:** Support low-power sleep/wake up, the consumption is lower than 500mW under sleep mode
- ◆ **Support Multiple Control Protocol:** Support VISCA,PELCO-D,PELCO-P protocols which can also be automatically recognized. Support VISCA control protocol through IP port.
- ◆ **RS-232 cascade function:** ST series support RS-232 cascade function which is convenient for installing.
- ◆ **255 presets positions:** Up to 255 presets (10 presets by remoter).

## ◆ Technical Specifications

	Model	GX-HD3310S12	GX-HD3310	GX-HD3310S30
Camera Parameter	Sensor	1/2.8 inch high quality HD CMOS sensor		
	Effective Pixel	16: 9, 2.07 megapixel		
	Video Format	1080P60/50/30/25/59.94/29.97; 1080I60/50/95.94 720P60/50/30/25 /59.94/29.97		
	Optical Zoom	12X f=3.9~46.1mm	20X f=4.7~94mm	20X f=4.3~129mm
	View Angle	6.3°(tele)-72.5°(wide)	2.9°(tele)-55.4°(wide)	2.34°(tele)-65.1°(wide)
	AV	F1.8~F2.4	F1.6~F3.5	F1.6~F4.7
	Digital Zoom	X10		
	Minimum Illumination	0.5Lux(F1.8, AGC ON)		
	DNR	2D & 3D DNR		
	White Balance	Auto / Manual/ One Push/ 3000K/ 4000K/5000K/6500K		
	Focus	Auto/Manual		
	Aperture	Auto/Manual		
	Electronic Shutter	Auto/Manual		
Input/Output Interface	BLC	ON/OFF		
	WDR	OFF/ Dynamic level adjustment		
	Video Adjustment	Brightness,Color,Saturation,Contrast,Sharpness		
	SNR	>55dB		
	Video Interfaces	DVI(HDMI), 3D-SDI		
	Control Signal Interface	8 cores mini DIN; RS-232 Ring through RS232 output		
	Control Protocol	VISCA/Pelco-D/Pelco-P;Baud Rate: 11520/9600/4800/2400bps		
	Audio Input Interface	Double track 3.5mm linear input;		
PTZ Parameter	HD IP Interface	100M IP port(100BASE-TX); Support Visca protocol control through IP port.		
	Compression Format	Support H.264,H.264+ Video Compression;Support AAC/MP3/PCM Audio compression		
	Image Code Stream	Dual stream output		
	Network Protocol	RTSP, RTMP, ONVIF, GB/T28181		
	Power Interface	HEC3800 outlet (DC12V)		
	Pan Rotation	±170°		
	Tilt Rotation	-30° ~+90°		
Other Parameter	Pan Control Speed	0.1 -100°/sec		
	Tilt Control Speed	0.1 -45°/sec		
	Preset Speed	Pan: 100°/sec,Tilt: 45°/sec		
	Preset Number	255 presets (10 presets by remote controller)		
	Supply Adapter	AC110V-AC220V to DC12V/1.5A		
Operation Environment	Input Voltage	DC12V±10%		
	Input Current	1A(Max)		
	Consumption	12W(Max)		
	Store Temperature	-10°C~+60°C		
	Store Humidity	20%~95%		
	Working Temperature	-5°C~+45°C		
	Working Humidity	20%~80%		
	Dimension	258mm*172mm*168mm		
	Weight	1.6KG		
	Operation Environment	Indoor		
	Remote Operation (IP)	Remote Upgrade,Reboot and Reset		
Accessory		power supply,RS232 control cable, remoter, manual		

# ◆ HD Dome Camera

## GX-HD3320

### ◆ Features

- ◆ Full HD video, super clear image
- ◆ Low noise, high SNR
- ◆ Wide range, high speed, low noise motion
- ◆ HD multiple video output formats
- ◆ Transparent transmission function of remote controller
- ◆ Support H.265/H.264 encoding
- ◆ Support multiple control protocols



### ◆ Basic functions

- ◆ **Superb high-definition image:** It employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.
- ◆ **Audio Input Interface:** Support 16000,32000,44100,48000 sampling frequency and AAC,MP3,PCM audio coding.
- ◆ **Quiet PTZ:** By adopting high accuracy step driving motor mechanism, it works extremely quiet and moves smoothly and very quickly to designated position.
- ◆ **Multi-Format Video Outputs:** support HDMI (DVI),3G SDI, wired LAN interfaces. The 3G-SDI is available for 100m transmission at 1080p60 format.
- ◆ **Low noise and High SNR:** Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.
- ◆ **Transparent transmission function of remote controller:** Support transparent transmission function, make the supporting equipments easy to operate.
- ◆ **Low-power sleep function:** Support low-power sleep/wake up, the consumption is lower than 500mW under sleep mode
- ◆ **Support Multiple Control Protocol:** Support VISCA,PELCO-D,PELCO-P protocols which can also be automatically recognized. Support VISCA control protocol through IP port.
- ◆ **RS-232 cascade function:** ST series support RS-232 cascade function which is convenient for installing.
- ◆ **255 presets positions:** Up to 255 presets (10 presets by remoter).

## ◆ Technical Specifications

Camera Parameter	Sensor	1/2.8 inch high quality HD CMOS sensor
	Effective Pixel	16: 9 2.07 megapixel
	Video Format	1080P60/50/30/25/59.94/29.97; 1080I60/50/95.94 720P60/50/30/25 /59.94/29.97
	Optical Zoom	20X; f=4.7~94mm
	AV	F1.6~F3.5
	View Angle	2.9°(tele)-55.4°(wide)
	Digital Zoom	X10
	Minimum Illumination	0.5Lux(F1.8, AGC ON)
	DNR	2D & 3D DNR
	White Balance	Auto / Manual/ One Push/ 3000K/ 4000K/5000K/6500K
	Focus	Auto/Manual
	Aperture	Auto/Manual
	Electronic Shutter	Auto/Manual
	BLC	ON/OFF
	WDR	OFF/ Dynamic level adjustment
Input/Output Interface	Video Adjustment	Brightness,Color,Saturation,Contrast,Sharpness
	SNR	>55dB
	Video Interfaces	HDMI, 3G-SDI,LAN
	Control Signal Interface	8 cores mini DIN; RS-232 Ring through RS232 output
	Control Protocol	VISCA/Pelco-D/Pelco-P;Baud Rate: 11520/9600/4800/2400bps
	Audio Input Interface	Double track 3.5mm linear input;
	HD IP Interface	100M IP port(100BASE-TX); Support Visca protocol control through IP port.
PTZ Parameter	Compression Format	Support H.264,H.264+ Video Compression;Support AAC/MP3/PCM Audio compression
	Image Code Stream	Dual stream output
	Network Protocol	RTSP/RTMP ONVIF GB/T28181
	Power Interface	HEC3800 outlet (DC12V)
	Pan Rotation	±170°
	Tilt Rotation	-30°~+90°
Other Parameter	Pan Control Speed	0.1 ~60°/sec
	Tilt Control Speed	0.1 ~30°/sec
	Preset Speed	Pan: 60°/sec,Tilt: 30°/sec
	Preset Number	255 presets (10 presets by remote controller)
	Supply Adapter	AC110V-AC220V to DC12V/1.5A
	Input Voltage	DC12V±10%
	Input Current	1A(Max)
	Consumption	12W(Max)
	Store Temperature	-10°C~+60°C
	Store Humidity	20%-95%
	Working Temperature	-5°C~+45°C
	Working Humidity	20%-80%
Accessory	Dimension	150mm*150mm*167.5mm
	Weight	1.4kg
	Operation Environment	Indoor
	Remote Operation (IP)	Remote Upgrade,Reboot and Reset
	Accessory	power supply,RS232 control cable, remoter, manual

## ◆ HD Dome Camera

### GX-HD3330



#### ◆ Basic Functions

- ◆ Supports automatic video camera tracking (HD), with preset panoramic position. Perfect matched with camera or video matrix
- ◆ Support infrared automatic video tracking(HD, MAX 8 cameras )
- ◆ Adopt infrared anti-jamming algorithm, stable and reliable. Be fearless of visible light and infrared light (sunshine, light,whiteboard and etc.).
- ◆ Accurate location and smooth tracking, automatic resolution.
- ◆ The tracking effect is not affected by the size and shape of the meeting room.
- ◆ Simulation Parameters can be self-define arbitrarily, the code stream switching won't be influenced by target status.
- ◆ Support HD video H.264 coding output, be available for 100m transmission at 1080p60 format.
- ◆ Multi-Format Video Outputs:support SDI, DVI-D, NETWORK, and USD 3.0 video output interface.
- ◆ Maximum tracking distance can reach 18 meters.



## ◆ Technical Specifications

Sensor	1/2.8 inches CMOS, 2.14 million sensor
focal distance	3.9mm~46.8mm
AV	F1.~F2.8
optical zoom	12 times
digital zoom	12 times
View Angle	72.5°~6.3°
Focus System	Auto / Manual/ PTZ/ One Push
Minimum Illumination	0.5 Lux (colors), 0.1Lux (black and white)
Shutter Speed	1/1 - 1/10,000 second
Tune-up	Auto/Manual
White Balance	Auto / Indoor / Outdoor/ One Push Auto / Manual tracking
Exposure Control	Auto / Manual/Shutter Priority/Aperture Priority
SNR	≥50dB
Language	ENGLISH
Pan Rotation	-170°~+170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1°~120°/s
Tilt Control Speed	0.1°~90°/s
Preset Number	256
Pan-tilt control interfaces	RS-232/RS-485/USB3.0
Network interface	100M self-adapted to Ethernet interface(RJ45)
Network protocol	PELCO-D, VISCA, UVC1.1
Video interface	3G-SDI, DVI-D, USB3.0
	1080P60/1080P50/1080P30
Video format	1080P25/1080I60/1080I50 720P60/720P50
Resolution ratio	MAX 1920*1080@60fps
Video compression	H.264
Audio compression	AAC
Network protocol	ONVIF/RTSP/HTTP/TCP UDP/RTMP
Video Preview Number	MAX 10, at the same time
Dual-stream	YES
Power	DC12V
Consumption	<30W
Operating Temperature	0~40°C
Storage Consumption	-20~60°C
Weight	1.2kg
Dimensions (L*W*H)	243mm×145mm×163mm
Color	Grey

# ◆ HD Camera Tracking SDI Switch

**GX-SDI0401M**



## ◆ Basic Functions

- ◆ Adopt RS232 control interface, work with digital conference system and high-definition video conference camera
- ◆ Support 4-channel HD SDI signal input, 1 channel HD SDI signal switch output
- ◆ Realize the tracking switch of up to 4 channels of SDI HD video conference camera
- ◆ Automatically recognize full SDI signal format: SD-SDI/HD-SDI/3G-SDI
- ◆ High definition, fast switching
- ◆ Power supply with industrial-grade design, long-lasting and stable
- ◆ Intelligent circuit design, broadcast-level processing technology

## ◆ Technical Specifications

SDI signal format	SD-SDI/HD-SDI/3G-SDI
Support SDI rate	143-2970Mb/s
SDI impedance	75Ω
SDI signal output amplitude	800mVp-p
	480i@60Hz/576i@50Hz/720P@50Hz/
SDI input resolution	720P@60Hz/1080i@50Hz/1080i@60Hz/ 1080P@24@25@30@50@60Hz
	480i@60Hz/576i@50Hz/720P@50Hz/
SDI output resolution	720P@60Hz/1080i@50Hz/1080i@60Hz/ 1080P@24@25@30@50@60Hz
Power supply	Standard configuration: 5V1A
Overall power consumption	<2W
Product size	138×104×42mm

# ◆ SDI to HDMI Converter

**GX-CV180**

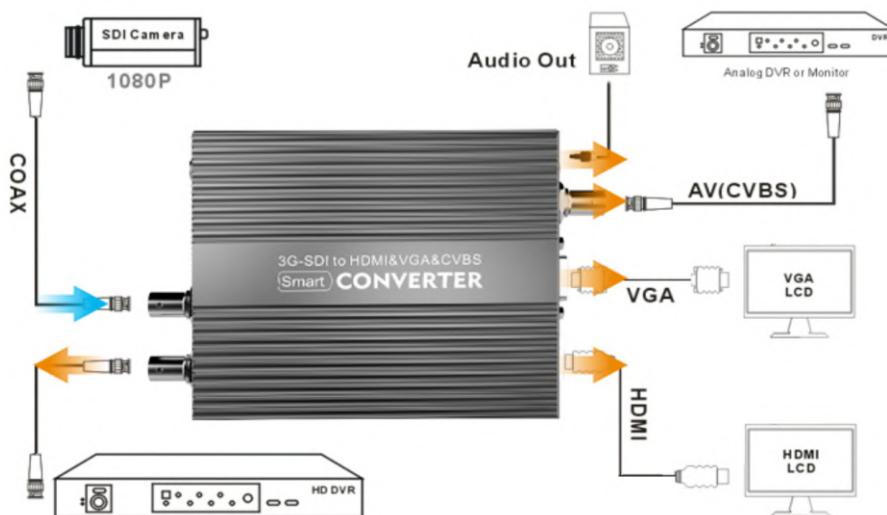


## ◆ Basic Functions

- ◆ SDI input formats: all formats are supported.  
SD: 525i @ 59.94Hz, 625i@ 50Hz  
HD: 720p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz  
720p @ 50Hz / 59.94Hz / 60Hz  
1080i @ 50Hz / 59. 94Hz / 60Hz  
1080p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz  
3G: 1080p @ 50Hz / 59.94Hz / 60Hz
- ◆ SMPTE standards supported: 259M-C, 292M, 424M, 425M level A and level B
- ◆ One SDI loopout port
- ◆ OSD and menu for operation interface
- ◆ Autodetects HDMI EDID info for optimal source-to-screen communications
- ◆ Supports symmetric conversion of all formats
- ◆ Blue screen alarm for signal loss
- ◆ Manual VGA output 720p/1080p resolution selection
- ◆ SDI embedded audio conversion to HDMI output
- ◆ AV ( CVBS ) signal output ( PAL/NTSC optional )
- ◆ Allows remote controller for selection of forced output mode

## ◆ Technical Specifications

Input socket	1×BNC SDI
Input signal type	SD-SDI(270Mbps),HD-SDI(1.485Gbps),3G-SDI(2.97Gbps)
Input resolutions supported	525i 59.94, 625i 50 720p 23.98/24/25/29.97/30/50/59.94/60 1080i 50/59.94/60 1080p 23.98/24/25/29.97/30/50/59.94/60
SDI signal range	0.8Vp-p
SDI impedance	75Ω
SDI coupling type	AC Coupling
SDI jitter (typical values)	SD-SDI≤0.1UI HD-SDI≤0.2UI 3G-SDI≤0.4 UI
Max. input cable length	Belden 1694A: SD-SDI 400m, HD-SDI 200m, 3G-SDI 140m
Note: Cable length test result might be different according to cable types.	
SDI loop output	1×BNC SDI
HDMI output	1×HDMI
AV(CVBS) output	1×BNC
VGA output	1×VGA
Frequency bandwidth	165MHz / HDMI 1.3 standard compliant
Dimensions (mm)	154*119*36 (W*D*H)
Power supply voltage	5-24VDC



# SD Camera Auto-Tracking System

## ◆ Speed Dome Controller

**GX-KB01**

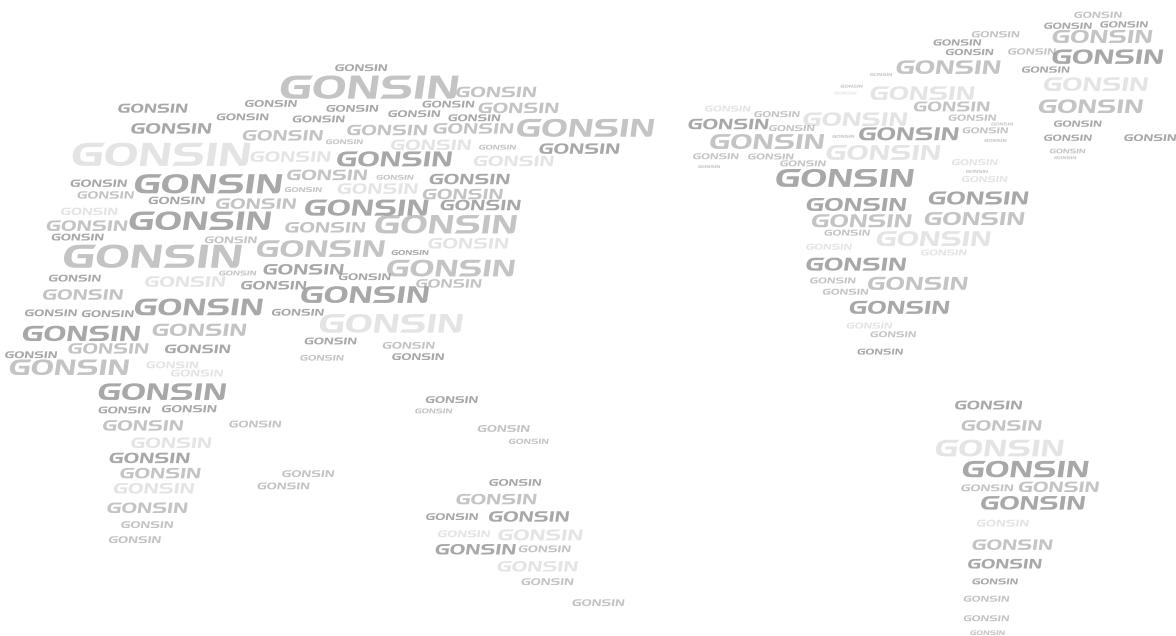


### ◆ Basic Functions

- ◆ LCD display both Chinese/English menu, with voice prompt when pressing buttons
- ◆ 3-axis joystick, adjust the speed of the camera or pan&tilt
- ◆ 2 dimension button control, can accurate to the speed of every state
- ◆ Support PELCO P, PELCO D, VISCA protocol
- ◆ Can control the rotate, zoom, iris, focus and camera parameter setting of the camera or pan&tilt
- ◆ Adopting RS-485, RS-422 and RS-232 multi-interface, maximally connect 256 PCS integrated high speed dome and camera
- ◆ Maximal Communication distance: 1200m (0.5mm twisted-pair)
- ◆ Metal shell, computer keyboard key design
- ◆ Commonly use special function button for selection and definition
- ◆ Real-time display of the working status of the decoder and matrix
- ◆ The communication interface has a automatic recovery design for short-circuit and over-current protection

### ◆ Technical Specifications

Communication method	RS-485 half duplex, RS-422 full duplex, RS232 full duplex
Communication rate	1200/2400/4800/9600
Interface	RJ45 network port, RS232 standard socket, binding post
Supply voltage	DC12V
Power consumption	5W
Display method	LCD
Working temperature	-10~50°C
Working humidity	10~90% (no condensation)
Protection level	IP50
Weight	1.5Kg
Dimensions (L×W×H)	271mm×181mm×54mm



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English WeChat

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