Analog HD, H.264 Stand-alone TVI DVR

TVI 04/08/16 H

Features

- Stable & economic codec of H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, Recording for analog HD/ Full HD of 4ch/8ch/16ch**
- **Boot logo upgrade function support by USB**
- **2 S-ATA HDD (Max 4 TB storages), smart update F/W**
- **Support HD & full HD within 200M coaxial cable only**
- **Upgraded GMT / NTP /P2P/uPnP/Functions**
- Can be reachable to distance of 500M coaxial cable(not recommend)
- Alarm triggering screen , digital zoom support at live & playback
- **The best economic HD solution for your surveillance system within short distance, 200M with 4/8/16 ch as a line up**



Front View



Eseenet Viewer (Smart Phone)

Rear View



Specification			TVI-04/ 08/16 H
System	Video Input		4 /8/16 BNC
	Video Output		1 VGA, 1 HDMI
	Video Signal		720p or 1080p analog HD camera, auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control, remote viewer
	Compression		H.264 H/W Compression
Video	Video Resolution		1024X768, 1280X1024,1366X768, 1440x900 , 1280X720, 1920X1080 Full HD support
	Video Recording (NTSC/PAL)	16ch 720p	HD o720P & 1080P recording support
		8ch HD	30 fps per CH , HD both 720P & 1080P support
		4ch HD	**120 / 100 (30fps per ch at HD), 720P & 1080P**
	Video Display split		1 CH / 4 CH / 8cCH / 16CH
Audio	Audio Input		4/8/16CH
	Audio Output		1 CH, RCA
Motion & Alarm	Motion Detection		Motion Detection with Notification through e-mail, even clip & remote alarm
	Alarm Input		4CH (~8 input optional)
	Relay Output		1 OUT (~4 output optional)
Storage	HDD		**Up to 2 S-ATA HDD – Max 4 TB**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		P2P/TCP/IP, DHCP, DDNS, PPPOE, E-mail
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback
	NDMS remote access		Multi view(max.128CH), Multi access (max. 256DVR)
Auxiliary Interface	Communication Port		(internal RS232), Ethernet, 2 USB (Rear: 2 USB Port)
Weights & Measures	Dimension		272(W) x 240(D) x 55(H)mm
	Weight		1.5KG (without HDD)
Power	Source		DC12V, 3A
	Consumption		36W Max.

4ch / 8ch HD-VLC, long coaxial EX-HDSDI N/W DVR

IRIS - EXHDI



Front side



IRIS Viewer (smart phone, Android & iOS support)

Feature

- Enhanced coaxial distance of 450~600M for video transmission
- **HD-VLC ,** (standard HDcctv2.0, 3G full HD)
- **Full HD digital video input & output, record & playback from 120FPS HD(720p) to 60fps full HD (1080p) at the same time**
- Cable equalizer & EX331B EX-SDI driver built in DVR
- **Support RAID 0 (extend HDD) / RAID 1 (mirroring HDD)**
- **Capable two S-ATA HDD (max 4~6 TB),**
- **Provide simple Smart Recovery F/W by USB**
- **DDNS service / provide function of time sync with external device**
- **Support GMT / NTP / uPnP /DDNS**
- HD multi- output terminal : provide two digital port, VGA, HDMI Support event clip according to triggering alarm, zoom (live & playback view)
- CMS remote viewer program (real time live & PB viewer)
- **Stable & economic extended HD-SDI DVR was proven GUI**

model name			IRIS-EXHD1 / IRIS-EXHD2
system	Video input		4 / 8 channel BNC
	Video output		1 VGA, 1 HDMI
	image Signal		1.5G HDSDI 720p/1080p or 3G EXSDI 720p/1080p
	O.S.		Embedded Linux
	Triplex		Real time viewer, record, playback, backup, & remote real time viewer & backup
	Control device		front key pad, Mouse ,IR remote control
	Compression method		H.264 main profile compression
Image quality	Video resolution		800X600, 1024X768, 720p,1280X1024,1366X768, 1440x900, 1080p Full HD
	Video record (HD/full HD)	16ch	-
		8ch HD	720p, 240 fps / 1080p, 120 fps (channel :each 30 fps / channel :each 15 fps)
		4ch HD	**720p, 120 fps (each ch 30fps) / 1080p, 60fps (each ch 15 fps)**
	Split screen		1 CH / 4 CH / 8CH
Audio	Input		4/8 CH
	Output		1 CH, RCA
Alarm & Motion detection	Motion detection		Alarm triggering motion detection event capture, even clip , remote alarm
	Input alarm		4CH (~8 optional)
	Output alarm(Relay)		1 OUT (~4 optional)
Storage	HDD		**Two S-ATA HDD – max 4~6 TB**
Playback & backup	Recording type		manual, auto, alarm trigger(motion detection, video loss), Sensor trigger
	function		RAID 0, RAID 1, Motion, Event Recording, pre record for event
	Search PB		Time/date, Event(Sensor, Alarm, Video loss), text log
	Playback		Real time, monthly, daily
	Backup		USB / USB external HDD
Network & CMS	Network		TCP/IP, DHCP, static IP, DDNS, PPPOE, uPnP / smart mobile
	Remote function		Net/Web Client, real stream, remote real time & PB viewer, E-MAP, event log search , event capture(clip : motion detection , LPR, text detect) & SQL database search
	NDMS remote program		Multi view(max128CH), Multi access (max 256DVR), E-map, Dual-monitor
Serial data port	Communication port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – optional)
Surface spec	dimension		200(W) x 80(D) x 30(H)mm
	weight		1.2KG (without HDD)
power	Power adaptor		DC12V, 3A
	Power consumption		36W

Low ended compact 4ch / 8ch NVR series

IRIS NVR04F

IRIS NVR08F



Front view



IRIS Viewer
(smart phone
Android,iOS & so on)

feature

- **Commercial simple 4ch /8ch NVR series**
- **Support both HD (720p) & Full HD(1080p) IP camera all**
- **Auto detection for HD video input (Plug & play)**
- **Support Standard ONVIF & Own protocol**
- **1 S-ATA type of HDD (3.5")**
- HD **multi-output : VGA, HDMI**
- **GUI menu with user friendly**
- CMS remote surveillance (100/200 IP camera monitoring)
- **Stable & economic commercial HD NVR**

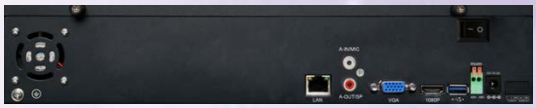
Description		specification
Operating System		Embedded LINUX operating system
Image Code Control		Image code quality adjustable, variable bitstream and constant bitstream optional
Dual Stream		Each channel can set main stream and sub stream
Video Standard		1080P(1920×1080)30fps/960P/(1280×960)/720P(1280×720)30fps
Monitoring Image Quality		1080P(1920×1080) / 960P/(1280×960)/720P(1280×720)
Image Motion Detection		Each screen can set multiple detection areas and set 6-level sensitivity
Recording Playback Quality		4/8 ch playback in 5MP/3MP/1080P mode
Region Cover		Every channel can set 4 cover regions (IPC Support)
Recording Mode		Support manual , auto, dynamic detection, alarm trigger record mode(Partly needs IPC Support)
Backup Way		Support U disk, USB mobile HDD, USB DVD-RW. network storage and backup
Operation Way		Mouse, remote control, front panel
Local Login		User name and password
Recording Storage		Local HDD, network
External Ports	Video Input	①4×(2592*1944)+sub[960*576]+4Ref.+4Play 4ch 5.0MP IP Camera ②4×(2048*1536)+sub[960*576]+4Ref.+4Play 4ch 3.0MP IP Camera ③4×(1920*1080)+sub[960*576]+4Ref.+4Play 4ch 2.0MP IP Camera
	Audio Input	1ch network audio input
	Video Output	1ch VGA+1ch HDMI
	Network Port	1 RJ45,10M/100M/1000M self-adaptive LAN port
	USB Port	2*USB 2.0 ports
	Wireless Port	3G , WIFI
	HDD Port	1*3,5"HDD + 1*E-SATA HDD Port
HDD	MAX Capacity	Each port supports MAX 4TB HDD
Mobile Surveillance		Support(iPhone, Windows Mobile, BlackBerry, Symbian, Android) smart phone
Power Supply		5V2A
Power Consumption		≤10W (without HDD)

Low ended compact 9ch / 16ch NVR series

IRIS NVR09E

IRIS NVR16E







IRIS Viewer
(smart phone
Android,iOS & so on)

feature

- **Commercial simple 9ch /16ch NVR series**
- **Support both HD (720p) & Full HD(1080p) IP camera all**
- **Auto detection for HD video input (Plug & play)**
- **Support Standard ONVIF & Own protocol**
- **2 S-ATA type of HDD (3.5")**
- HD **multi-output : VGA, HDMI**
- **GUI menu with user friendly**
- CMS remote surveillance (100/200 IP camera monitoring)
- **Stable & economic commercial HD NVR**

Description		specification
Operating System		Embedded LINUX operating system
Image Code Control		Image code quality adjustable, variable bitstream and constant bitstream optional
Dual Stream		Each channel can set main stream and sub stream
Video Standard		1080P(1920×1080)30fps/960P/(1280×960)/720P(1280×720)30fps
Monitoring Image Quality		1080P(1920×1080) / 960P/(1280×960)/720P(1280×720)
Image Motion Detection		Each screen can set multiple detection areas and set 6-level sensitivity
Recording Playback Quality		9/16 ch playback in 5MP/3MP/1080P mode
Region Cover		Every channel can set 4 cover regions (IPC Support)
Recording Mode		Support manual , auto, dynamic detection, alarm trigger record mode(Partly needs IPC Support)
Backup Way		Support U disk, USB mobile HDD, USB DVD-RW. network storage and backup
Operation Way		Mouse, remote control, front panel
Local Login		User name and password
Recording Storage		Local HDD, network
External Ports	Video Input	①4×(2592*1944)+sub[960*576]+4Ref.+4Play 4ch 5.0MP IP Camera ②4×(2048*1536)+sub[960*576]+4Ref.+4Play 4ch 3.0MP IP Camera ③4×(1920*1080)+sub[960*576]+4Ref.+4Play 4ch 2.0MP IP Camera
	Audio Input	1ch network audio input
	Video Output	1ch VGA+1ch HDMI
	Network Port	1 RJ45,10M/100M/1000M self-adaptive LAN port
	USB Port	2*USB 2.0 ports
	Wireless Port	3G , WIFI
	HDD Port	2*3,5"HDD + 1*E-SATA HDD Port
HDD	MAX Capacity	Each port supports MAX 4TB HDD
Mobile Surveillance		Support(iPhone, Windows Mobile, BlackBerry, Symbian, Android) smart phone
Power Supply		5V2A
Power Consumption		≤10W (without HDD)

High ended 19” Rack mount type NVR series

IRIS NVR16FR

Feature

- **19” rack mount type with 16ch /25ch, NVR series**
- **Support both HD (720p) & Full HD(1080p) IP camera all**
- **Auto detect HD video input signal (Plug & play)**
- **Provide standard ONVIF & own protocol**
- **built in large capable storage with 4~9 HDD**
- HD **multi-output : VGA, HDMI**
- **GUI menu with user friendly**
- CMS remote surveillance (100/200 IP camera monitoring)
- **Stable & economic commercial HD NVR**



Front view



IRIS Viewer
(smart phone
Android, iOS & so on)

Description		specification
Operating System		Embedded LINUX operating system
Image Code Control		Image code quality adjustable, variable bitstream and constant bitstream optional
Dual Stream		Each channel can set main stream and sub stream
Video Standard		1080P(1920×1080)30fps/960P/(1280×960)/720P(1280×720)30fps
Monitoring Image Quality		1080P(1920×1080) / 960P/(1280×960)/720P(1280×720)
Image Motion Detection		Each screen can set multiple detection areas and set 6-level sensitivity
Recording Playback Quality		4ch playback in 5MP/3MP/1080P mode
Region Cover		Every channel can set 4 cover regions (IPC Support)
Recording Mode		Support manual , auto, dynamic detection, alarm trigger record mode(Partly needs IPC Support)
Backup Way		Support U disk, USB mobile HDD, USB DVD-RW. network storage and backup
Operation Way		Mouse, remote control, front panel
Local Login		User name and password
Recording Storage		Local HDD, network
External Ports	Video Input	①4×(2592*1944)+sub[960*576]+4Ref.+4Play 4ch 5.0MP IP Camera ②4×(2048*1536)+sub[960*576]+4Ref.+4Play 4ch 3.0MP IP Camera ③4×(1920*1080)+sub[960*576]+4Ref.+4Play 4ch 2.0MP IP Camera
	Audio Input	4ch network audio input
	Video Output	1ch VGA+1ch HDMI
	Network Port	1 RJ45,10M/100M/1000M self-adaptive LAN port
	USB Port	2*USB 2.0 ports
	Wireless Port	3G , WIFI
HDD	HDD Port	1*2,5”HDD + 1*E-SATA HDD Port
	MAX Capacity	Each port supports MAX 4TB HDD
Mobile Surveillance		Support(iPhone, Windows Mobile, BlackBerry, Symbian, Android) smart phone
Power Supply		5V2A
Power Consumption		≤10W (without HDD)

63LED Bullet type weather-proof FULL-HD IP camer

IP2063X



Feature

- Protocol supports TCP/IP, DHCP, DNS, RTP/RTSP, ONVIF
- H.264 1080P 30fps
- CBR/VBR rate control
- H.264+MJPEG dual-streaming
- Hard-wired G.726/G.711 Audio Encoder
- 2M Senser Interface(1080p 30fps)
- Support AEC, AGC, ABLC, AWB
- Support TDN, IRIS, and smart LED control
- On-chip phase locked loop
- High Sensitivity and low noise characteristics
- Programmable controls: exposure, gain, frame rate, mirror, Flip, scaling, windowing

specification

ITEM	IP-2063X
Image sensor & cable driver	1/2.7" ZeeAnn Progressive Scan Sensor + Eyenix EN672 driver
Number of effective pixel	1930(H) x 1088(V)
S/N Ratio	39.9 dB Min
Resolution quality	1920 x 1080 BT1120 standard 16 : 9 full HD (1080p (30fps)
Scan mode	Progressive
OSD	Not support
Electronic shutter	Rolling shutter
White Balance	auto / manual/ Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight convention	Center Weight (16 level)
AGC	1x ~ 64x
Day & Night	Auto/ Color / BW / external
2D-DNR/AWB/AGC/BLC	support
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Power adaptor	DC12V ± 10%
CMOS power consumption	Active :345mW(/ standby : 618uW
Operating temperature/Humidity	-40˚C ~ +85˚C / 30% ~ 80% RH
Storaging temperature/ Humidity	-50˚C ~ +105˚C / 20% ~ 90% RH
Dimension	260(L) x 75(PI) mm
weight	625g

24LED Dome type in-door HD/EXSDI camera

SHD-6024IR



Feature

- Auto control of AEQ/AGC/ABLC/AWB
- Programmable OSD (optional cable)
- Adjustable video image
- De-noise(fixing function to enhance defective pixel)
- Privacy zone & HLC/ motion detection/ eclipse
- Compatible with standard SMPTE274M(HD-SDI)
- I²C master/slave interface MCU serial com port
- output formats
- 1930H X1088V 2M pixel image size
- input clock
- On-chip phase locked loop
- HDSDI / EXSDI decoder/ 450~550M cable driver
- Full HD 1080p, 30fps

specification

ITEM	SHD-6024IR-20M
Image sensor & cable driver	1/2.7" ZeeAnn Progressive Scan Sensor + Eyenix EX-SDI EN331 driver
Effective pixel	1930(H) x 1088(V)
S/N Ratio	39.9 dB Min
Resolution quality	1920 x 1080 BT1120 standard 16 : 9 full HD (1080p (30fps)
Transmission signal (coaxial cable HFB-5C Cu)	HD-SDI: 150M/ EX-SDI :550M
Scan mode	Progressive
OSD	Support (optional cable)
Electronic shutter speed	Rolling shutter
White Balance	Auto / Manual/ Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight compensation	Center Weight (16 level)
AGC	1x ~ 64x
Day & Night	Auto/ Color / BW / External
2D-DNR/AWB/AGC/BLC	support
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Privacy Masking	On / Off (2 Zone masking)
Input power	DC12V ± 10%
CMOS power consumption	Active :345mW(/ standby : 618uW
Operating temperature/Humidity	-40˚C ~ +85˚C / 30% ~ 80% RH
Storage temperature/Humidity	-50˚C ~ +105˚C / 20% ~ 90% RH
Dimension	32(H) x 32(V) x 1.2(T)mm
Weight	190g

63LED Bullet type weather-proof HD/EX-SDI camera

SHW-6063IR



Feature

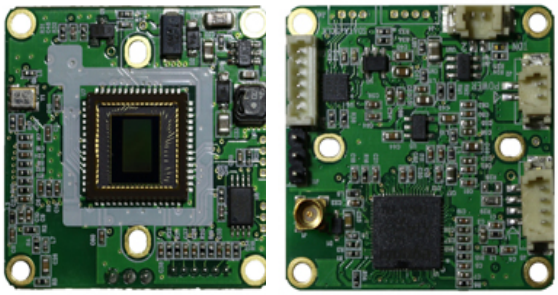
- Auto control of AEQ/AGC/ABLC/AWB
- Programmable OSD (optional cable)
- Adjustable video image
- De-noise(fixing function to enhance defective pixel)
- Privacy zone & HLC/ motion detection/ eclipse
- Compatible with standard SMPTE274M(HD-SDI)
- I²C master/slave interface MCU serial com port
- output formats
- 1930H X1088V 2M pixel image size
- input clock
- On-chip phase locked loop
- HDSDI / EXSDI decoder/ 450~550M cable driver
- Full HD 1080p, 30fps

Specification

ITEM	SHW-6063IR-20M
Image sensor & cable driver	1/2.7" ZeeAnn Progressive Scan Sensor + Eyenix EX-SDI EN331 driver
Effective pixel	1930(H) x 1088(V)
S/N Ratio	39.9 dB Min
Resolution quality	1920 x 1080 BT1120 standard 16 : 9 full HD (1080p (30fps)
Transmission signal (coaxial cable HFB-5C Cu)	HD-SDI: 150M/ EX-SDI :550M
Scan mode	Progressive
OSD	Support (optional cable)
Electronic shutter speed	Rolling shutter
White Balance	Auto / Manual/ Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight compensation	Center Weight (16 level)
AGC	1x ~ 64x
Day & Night	Auto/ Color / BW / External
2D-DNR/AWB/AGC/BLC	support
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Privacy Masking	On / Off (2 Zone masking)
Input power	DC12V ± 10%
CMOS power consumption	Active :345mW(/ standby : 618uW
Operating temperature/Humidity	-40˚C ~ +85˚C / 30% ~ 80% RH
Storage temperature/Humidity	-50˚C ~ +105˚C / 20% ~ 90% RH
Dimension	32(H) x 32(V) x 1.2(T)mm
Weight	618g

SMEX-1080PM

1080P full HD, EX-SDI CAMERA MODULE (32x32mm)



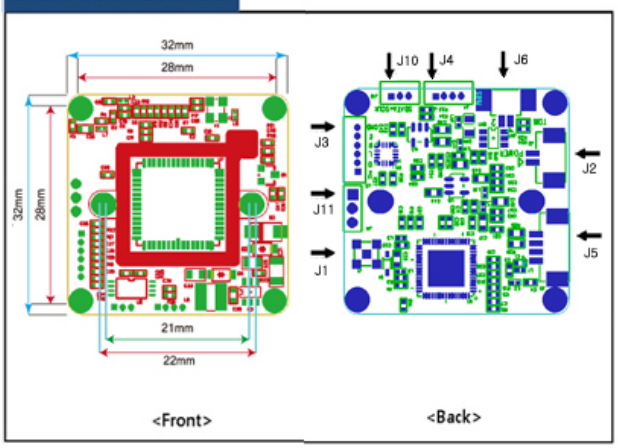
- Features -

1/2.7” ZeeAnn Progressive scan CMOS Sensor
1080P (1930x1088) 30fps 2 Mege Pixel wide 16:9
Support SMPTE274M /BT1120 for HD-SDI
Support for privacy zone and eclipse function
Adaptive Digital Noise Reduction(2D)
Motion Object Detection
Color Rolling Suppression
Built-in OSD to adjust image
32x32mm dimension
SNR 40dB, dynamic range : 66.5dB
Low illuminate performance enhanced
Eyenix EN331A EX-SDI cable driver built in



- Dimension & Pin Map -

Module Outline Dimension



Pin Connection Description

Conn# Pin#	J1	J2	J3	J4	J5	J6	J10	J11
1	SDI OUT	GND	GND	SWIM	DC12V OUT	ICR B	SCLK	DC3.3V IN
2	GND	DC12V IN	ENTER	NRST	IR LED	ICR A	SDATA	MODE
3	GND		RIGHT	3.3V	GND		GND	GND
4	GND		LEFT	GND	CDS IN			
5	GND		DOWN					
6			UP					
7								

★ Provide Automatic control function for AEQ/AGC/ABLC/AWB

★ Programmable OSD control for image

★ Adjustable video image

★ de-noise(to fix a defective pixel)

★ Privacy zone & HLC/ motion detection/ eclipse

★ Compatible HD SDI standard with SMPTE274M(HD-SDI

★ I²C master/slave interface MCU / output formats

★ 1930H X1088V, 2M pixel image size

★ input clock

★ On-chip phase locked loop

★ HDSDI / EXSDI decoder/ 450~550M cable driver

★ Full HD 1080p, 30fps