

# Tiandy



## TC-R31680 Spec:E/B/R/N/V4.0

## H.265 16HDD 80ch

## Redundant power supply NVR



### KEY FEATURES

#### HD Input

- S+265/H.265/S+264/H.264 video formats
- Connectable to the third-party network cameras
- Support live view, storage, and playback of the connected camera at up to 16MP resolution

#### HD Output

- HDMI and VGA independent outputs
- HDMI Video output at up to 4K resolution

#### HD Storage

- 16 SATA interface, up to 18TB for 1 HDD
- S+265 compression effectively reduces the storage space and costs by up to 75%

#### HD Transmission

- 2×RJ45 self-adaptive 10/100/1000 Mbps network interface

#### Stability assurance

- Hot swap HDD
- Redundant power

#### Various Applications

- Centralized management of IP cameras, including configuration, information import/export, real-time information display, upgrade, etc.
- Connectable to smart IP cameras from Tiandy and the recording, playing back, and backing up of VCA alarms can be realized
- VCA detection alarm is supported
- Support cloud upgrade

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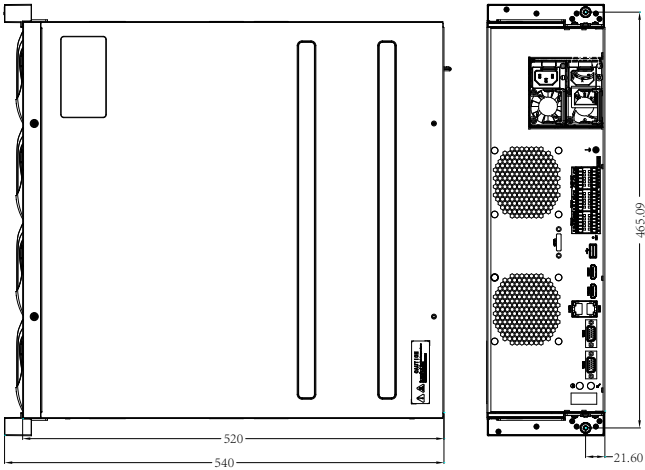
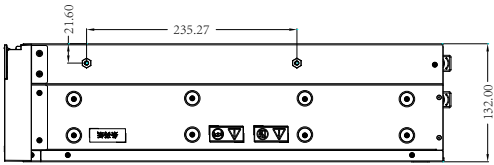
## SPECIFICATIONS

Video and Audio	
Access Channel	80
Incoming Bandwidth	640Mbps
Outgoing Bandwidth	320Mbps
Resolution	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Preview decoding capability	16MP*3,12MP*4,8MP*6,6MP*8,5MP*9,4MP*12,3MP*16,1080P*24,720P*48,4CIF*80
Playback decoding capability	16MP*3,12MP*4,8MP*6,6MP*8,5MP*9,4MP*12,3MP*16,1080P*16,720P*16
Video Output	independent HDMI1 and HDMI2 outputs independent VGA1 and VGA2 outputs simultaneous HDMI1 and VGA1 outputs simultaneous HDMI2 and VGA2 outputs
HDMI Output	HDMI:800*600(60Hz),1024*768(60Hz),1280*720(50Hz/60Hz),1280*800(60Hz),1366*768(60Hz),1440*900(60Hz),1920*1080(50Hz/60Hz),2560*1440(30Hz/60Hz),2560*1600(60Hz),3840*2160(30Hz/60Hz)
VGA Output	VGA:800*600(60Hz),1024*768(60Hz),1280*720(50Hz/60Hz),1280*800(60Hz),1366*768(60Hz),1440*900(60Hz),1920*1080(50Hz/60Hz)
Multi-screen Display	1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80
Third-party Camera Access	ONVIF;RTSP
Audio Input	1-ch,3.5mm
Audio Output	1-ch,3.5mm;BNC
Two-Way Audio	1-ch,3.5mm,using the audio input
Liveview display	Independent Output: HDMI1/VGA1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80 HDMI2/VGA2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80
Compression	
Video	S+265;H.265;S+264;H.264
Audio	G711A;G711U;AAC;ADPCM_DIV4
Stream Type	Video;Video & Audio
Network	
Network Protocol	ARP;DDNS;DHCP;DNS;Easy DDNS;FTP;HTTP;HTTPS;ICMP;IGMP;IPv4;IPv6;Multicast;NFS;NTP;PPPoE;RTCP;RTP;RTSP;SMB/CIFS;SMTP;SNMP;SRTP;SSH;SSL;TLSv1.2,TLSv1.3;TCP/IP;UDP;Unicast;UPnP
Mobile Phone Access	Android;iOS;P2P_A
System Compatibility	ONVIF(profile T/S/G);CGI;SDK
Web	IE10+;Firefox52+;Edge89+;Safari11+;Chrome57+
Record Playback	
Multi-channel Playback	16
Record Mode	Manual recording;alarm recording;Schedule recording
Storage	Local HDD/USB storage device/eSATA
Backup	USB storage device
Playback Function	Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full screen/backup (video Editing)/Step/Digital Zoom
Alarm	
General Alarm	Motion;Mask Alarm;Alarm Input(IPC);Video Loss;Alarm Input(NVR);Manual Alarm
Alert Alarm	IP Conflict;MAC Conflict;Network Disconnected;No disk;Illegal Access;Disk group space alert;Disk Full;Disk R/W error;Video Abnormal;Abnormal found in smart of disk;Abnormal temperature of the disk;Hot-spare Exception;Array Exception;IPC voltage abnormal;RTC failure

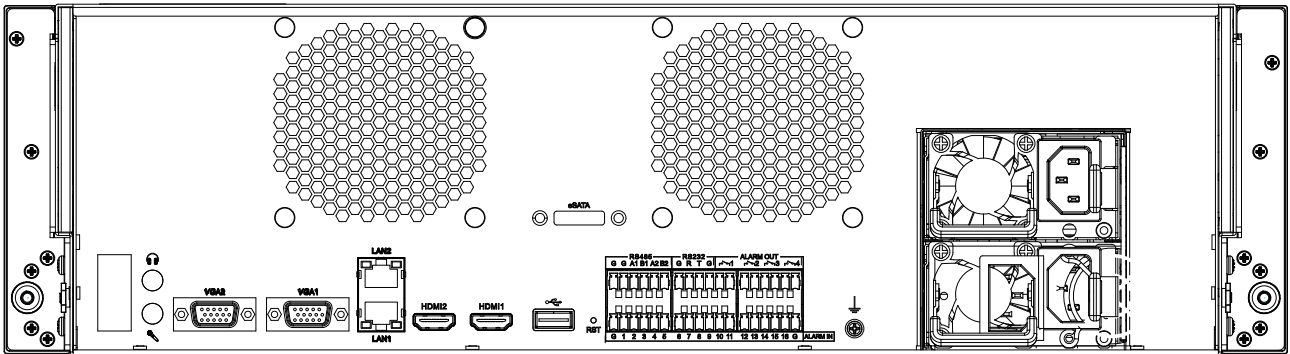
Intelligent Analytics	
VCA Detection by Camera	Tripwire;Double Tripwire;Perimeter;Object Abandon;Object Missing;Loiter;Running; Parking;Heatmap;Lens Dignose;Scene Switch Dignose;Signal Abnormal Detection; Signal Loss Detection;Plate License Recognition;On Duty Detection;Crowd Detection; Parking guard;Safety Helmet Detection;Electric vehicle testing;People Counting;Link To Tracking;Fireworks detection;Environmental temperature measurement;Face Detection;Human body temperature measurement;Advanced Intelligence
VCA Search	Heatmap;Early-warning search;Behavior Search;Plate license search;Search safety helmet;Thermographic retrieval;Duty search;Electric vehicle retrieval;Facial search
Face Detection by Camera	
Performance	N/A
Face Attributes	Gender;age;glasses;mouth mask;Body temp.
Face Picture Library	Up to 300 face libraries Up to 100000 base images
Face Picture Comparison	Cooperate with facial recognition machine
External Port	
HDD	16 SATA ports,up to 18 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Disk Group	8 Disk Group
RAID	JBOD,RAID0,RAID1,RAID5,RAID6,RAID10
eSATA	1eSATA
USB	2*USB2.0;1*USB3.0
HDMI	2*HDMI(supports up to 4K resolution output)
VGA	2*VGA
RJ-45	2*RJ-45,10/100/1000 Mbps self-adaptive Ethernet port
SATA	16 SATA interface
RS232	1*RS232
RS485	2*RS485
Alarm I/O	16channel in;4channel out
POE	
POE Interface	N/A
POE Gross Power	N/A
Power per POE Port	N/A
Max Current per POE Port	N/A
General Parameter	
UI Language	SimpleChinese;TraditionalChinese;English;Spanish;Korean;Italian;Turkish;Russian; Thai;French;Polish;Dutch;Hebrew;Arabic;Vietnamese;German;Ukrainian;Portuguese; Albanian
Power Supply	100~240V AC;Redundant power supply
Power Consumption	<25W(HDD not included,idling)
NetWeight	18Kg
GrossWeight	20Kg
Boundary Dimensions	540(L)484(W)132(H)mm
Package Dimensions	666(L)575(W)249(H)mm
Operating Temperature	-10°C~+55°C
Operating Humidity	10%~90%RH
Storage Temperature	-10°C~+55°C
Storage Humidity	10%~90%RH
Package Kit	Network Video Recorder;Screw pack;Mouse;European standard power cord

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AVAILABLE MODEL TC-R31680 Spec:E/B/R/N/V4.0  
DIMENSIONS (Unit: mm)



## Physical Interfaces



DISTRIBUTED BY



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