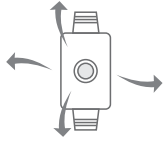


Main Features

Auto Gain Control (AGC)

- Built-in auto gain control (AGC) circuit. The color camera can get high definition picture in low Lux condition.

OSD button shortcut functions



- **CVBS Mode:** Press "left" key after 5 seconds then release :
- **TVI Mode:** Press "right" key after 5 seconds then release :
- **AHD Mode:** Press "up" key after 5 seconds then release :
- **CVI Mode:** Press "down" key after 5 seconds then release :

TROUBLESHOOTING

No picture after powering camera

- May be caused by power supply voltage abnormality, please check the power supply voltage and polarity of wires.
- Please check if the wires and monitors are connected correctly.

The picture level has interference fluctuations

- May be caused by AC power supply fluctuations, you may need to filter out the power supply fluctuations.
- Please check the monitor and peripheral equipment.

The picture background color changes continuously

- The electromagnetic field of the fluorescent lamp causes color roll. This is a normal phenomenon for cameras.
- Reduce number of fluorescent lamps or increase distance between camera and fluorescent lamps.
- Use an external power supply.

The picture is smeared

- May be caused by unstable power supply voltage.
- Either the connecting cables are plugged incorrectly or their impedance is too high.

NOTE

- Power supply must pass thorough tests. Its output voltage, current, polarity and operating temperature must match the camera's requirements.
- When using camera in places endangered by thunderbolts, please note to mount anti-thunder device or ground the power supply and cable.
- In order to insure high quality image capture the power supply cable and video output cable should be the recommended lengths.
- Please note the camera's operating temperature and it's environmental requirements.
- Avoid using the camera at temperatures above or below the recommended temperature range. The operating temperature range is -30~+60 degrees C. (Recommended operating temperature range is -10~+45 degrees C)
- Never face the camera toward the sun or bright objects. Doing so will damage the CCD. Do not mount camera near radiators or heaters.

**TO REDUCE THE RISK OF ELECTRIC SHOCK:
DO NOT REMOVE COVER OR BACK NO USER
SERVICEABLE PARTS INSIDE. REFER SERVICING**

**TO PREVENT ELECTRIC SHOCKS AND RISK OF FIRE
HAZARDS, DO NOT USE OTHER THAN
SPECIFIED POWER SOURCE**

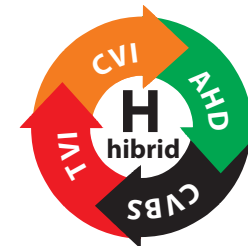


HD1080p

Surveillance Camera

4 in1 AHD, TVI, CVI, CVBS

1. Analog Hight Definition (AHD)
2. Turbo HD (TVI)
3. High Definition Composite Video Interface (HDCVI)
4. Standard Analog (CVBS)



1080P
Hibrid 20S series



technical specification

Please read this instruction manual carefully
to ensure proper use of the product.

1080p Hibrid 20S series

Model	ATE-H19DF20S	ATE-H27EF20S	ATE-H26DV20S	ATE-H36EV60-20S	ATE-H38EV90-20S	ATE-H44EV60-20S
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IMAGE						
Pick-up Element	1/2.9" SONY 2.1MP CMOS Sensor					
Number of Effective Pixels	1920(H) x 1080(V)					
Horizontal Resolution	1080P-CVI/TVI/AHD/ 960H- CVBS mode					
Min. Illumination	0.001 Lux/F1.2, 0 Lux with IR on					
S/N Ratio	>50 dB					
LENS						
Type	2.8 or 3.6mm/F2.0	2.8 - 12 mm	2.8 - 12 mm	2.8 - 12 mm	2.8 - 12 mm	2.8 - 12 mm
Angle of View (H)	105°	105° ~ 32°	105° ~ 32°	105° ~ 32°	105° ~ 32°	105° ~ 32°
DAY/NIGHT						
Type	Electronic D/N function 1/25s~1/50,000s , 1/30s~1/60,000s					
Switching Mode	Yes					
Switching Level Adjustment	0 ~ 255 s					
Switching Delay	Yes					
OTHER FUNCTIONS						
OSD	Yes					
Video Output Signal	AHD/TVI/CVI/CVBS/ selectable from joistik					
White Balance	Auto					
Gain Control	Auto					
Sync. System	Internal, Negative sync.					
Noise Reduction	DWDR, 3DNR, Sense-up					
IR LED						
Number	14μ x 18 pcs. Unit Infrared LED	14μ x 24 pcs. Unit Infrared LED	42μ x 4pcs. Unit Infrared LED	42μ x 6 pcs. Unit Infrared LED	42μ x 4 pcs. Unit Infrared LED	42μ x 4 pcs. Unit Infrared LED
Range	20 m, Smart IR	30 m, Smart IR	60 m, Smart IR	90 m, Smart IR	60 m, Smart IR	60 m, Smart IR
IR Status	Under 10 Lux by PD					
IR Power On	Photodiode AUTO Control					
TRANSMISSION						
Transmission Distance	Over 500m via 75-3 coaxial cable					
INSTALLATION PARAMETERS						
Dimensions (mm)	φ 94 x 69(H) mm	151x 64x 65.5 mm	φ 131 x 93(H) mm	306 x 97 x 110 mm	321 x 118 x 114 mm	200 x 171 x 83 mm
Weight	350 gr.	700 gr.	800 gr.	1600 gr.	1800gr.	1400 gr.
Enclosure	Aluminium white					
Power Supply	DC12V±10%					
Power Consumption	max. 500mA	max. 700mA	max. 1000mA	max. 1000mA	max. 1000mA	max. 1000mA
Operating Temperature	-30°C ~ 50°C, RH 95% Max					
Degree of Protection	IP66					