

# Converged Intelligent Terminal

GW-V2

**Day and Night AI  
Monitoring**

## Products



The device adopts a dual lens integrated design structure, equipped with a starlight-level night-vision lens with optional zoom lens, combined with a large-size image sensor and digital wide dynamic range, which can easily manage low-light environments and nighttime scenes to meet the needs of 24-hour monitoring. By collecting video/image and other data, the device automatically monitors and identifies hidden dangers and provides timely warnings, realizing the function of visual online monitoring of transmission lines.

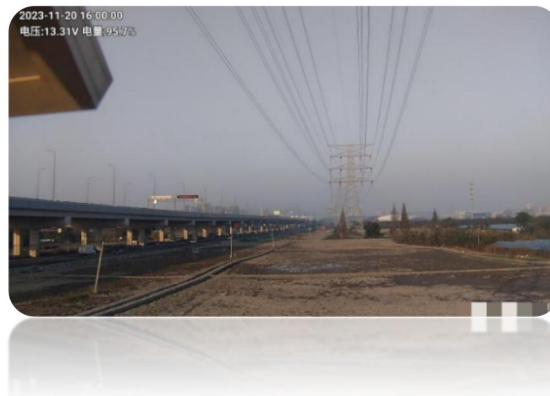


## Effective demonstration:

### 1.Field cases



### 2.Channel View



### 3.Night vision effect



Day and Night AI Monitoring



## Technical Parameters:

Camera	
Sensor type	Zoom: 1/4-inch CMOS (either with Day vision lens) Day Vision: 1/4 inch CMOS Night vision: 1/2-inch CMOS
Pixels	Zoom: 2 million (either with Day vision lens) Day Vision: 16 million Night vision: 2 million
Maximum resolution	Zoom: 1920 x 1080 (either with Day view lens) Day Vision: 4608×3456 Night vision: 1920×1080
Minimum illumination	Color: 0.001Lux@F1.5
Camera lens	
Focal length of lens	Zoom: 3.7mm (either with Day vision lens) Day Vision: 3.7mm Night vision: 4.9mm
Lens aperture	Zoom: F2.0 (Either with Day Vision Lens) Day Vision: F2.0 Night vision: F1.65
Field-of-view angle	Zoom: V50.6°H64.3°D76.2° (either with Day vision lens) Day vision: V50.6°H64.3°D76.2° Night vision: V46°H82°D94°

Optical zoom	10x (either with Day vision lens)
Focus mode	Automatic/semi-automatic/manual
<b>Professional Intelligence</b>	
Intelligent identification	Supports automatic identification of common hidden dangers in transmission corridors: construction equipment (tower cranes, cranes, pump trucks, excavators, bulldozers, shovels, rollers, forklifts, piling rigs, graders, graders, insulated bucket trucks, trucks), missing fixtures (insulators with blown pieces, insulators with missing pieces, fixture pins with missing pins), smoke from hill fires (smoke, open fires), and foreign objects in conductor wires (foreign objects above the wires, foreign objects under the wires-dust-proof nets, foreign objects below the wires-reflective films), and so on.
Font-end analysis	Supports hidden danger analysis on the device side after the device has captured the hidden danger, and transmits the analysis results directly back to the back-end, shortening the vacuum period of image analysis and reducing the pressure on the back-end server.
Local storage back-end access	Support equipment to locally store the recording video, take the cycle to cover the storage mode, support the back-end at any time to access the equipment side of the video recording, reduce traffic costs
<b>Video</b>	
Video compression standard	H.264;H.265;MJPEG
Day-to-Night Conversion	Time Zone Positioning / Optical Sensing
Wide dynamic	Support



(physics )	
Fog permeability	Electronically transparent fog
Digital zoom	8x (either with Day vision lens)
Signal-to-noise ratio	≥55dB
Anti-shake function	Electronic stabilization
<b>Internet</b>	
Network protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802.1x;SSL;Qos;FTP;UPnP;ICMP;SNMP;SNMPv1/v2c/v3(MIB2);IGMP;ARP;RTCP;RTP;PPPoE;IP Filter;RTMP;Bonjour;TCP;SMB;NFS;NA
Wireless standard	3G/4G/5G  China/India:  LTE FDD:B1/B3/B5/B8  LTE TDD:B34/B38/B39/B40/B41  WCDMA:B1/B8  TD-SCDMAB34/B39 EVDO/CDMA:BC0  GSM:900/1800MHZ
Wi-Fi	Supported, but recommended for testing only
<b>Functionality</b>	
Regional Focus	Supported
OSD information overlay	Support channel name, time, preset point position, PTZ coordinates, magnification, geographic location, picture
<b>Power</b>	



<b>supply</b>	
Power supply method	Solar panel plus battery
Power consumption	<p>Dormant power consumption: 0.03W (the device is turned on without any operation, tested after 30 minutes, only to ensure that the MCU power supply)</p> <p>Stationary Power Consumption: 0.17W (the device is turned on without any operation, tested after 30 minutes, the channel camera takes a shot in 20 minutes and transmits 4G data)</p> <p>Peak power consumption: 0.47W (the device is turned on without any operation, tested after 30 minutes, the channel camera 20 minutes a shot, the transmission of 4G data)</p>
Solar panel/battery capacity	Standard 18V20W/12.8V10AH 30days
Power supply	Lithium iron phosphate batteries or gel batteries
<b>Working environment</b>	
Operating temperature	-25°C~+70°C
Operating humidity	≤95%
Protection class	IP67
<b>Framework</b>	
Shell material	Die-cast aluminum
Product Size	290mm×133mm×122mm(L x W x H)
Net weight	2.4kg



Installation method	Wall-mounted, angle-mounted
<b>Other items</b>	
Night vision grade	Starlight Rating
Storage capacity	Optional add-on TF card 16G, 32G, 64G, 128G
Antennas	Built-in antenna
Positioning function	Support GPS
MTBF	$\geq 30000\text{h}$
Camera mounting adjustability	Omni-directional manual adjustment according to transmission line direction
Monitoring cycle	Front-end analysis of the default interval of 5 minutes a photo, timed return default 1 hour a photo, and sampling time period can be freely set; equipment to take pictures of the front-end analysis, identification of hidden problems immediately return, no hidden problems return timed return

### Option table:

Projects	Reference Configuration					
Tower tilt S6310	Inclination measurement range: biaxial -10°~+10° (optional -30°~+30°, -60°~+60° or -90°~+90°); Inclination measurement error: ≤±0.05°; Inclination measurement resolution: ±0.01°					
Micro Weather module（Three combinations available）ST6140						
	Wind speed	Wind direction	Temperature	Humidity	Atmospheric pressure	Rainfall
4 Elements	√	√	√	√		

### Day and Night AI Monitoring

5 Elements	√	√	√	√	√		
6 Elements	√	√	√	√	√	√	
Technical Parameter							
Micro Weather	Name		Measurement Range		Error Range		Resolut
	Temperatur e		-30℃～+85℃		±0.5℃		0.1℃
	Humidity		0～100%		±4%RH		1%RH
	Atmospheric pressure		0～100%		±4%RH		0.1hPa
	Wind speed		0～75m/s		±(0.3+0.03V) m/s		0.1m/s
	Wind direction		0～360°		±3°		0.5°
	Rainfall		0～4mm/min		±0.4mm (when ≤10mm) ±4% (when >10mm)		0.2mm
Audible and visual alarms		Meet 200 meters away can hear the alarm sound and can clearly distinguish the voice content, can see the obvious light					
S6150							
Sub-machine		Camera pixel: 8 megapixel for general light as standard. Optional 16-megapixel general light camera, 2-megapixel night vision camera					

Annexes (dimensional drawings of equipment)

