# Converged Intelligent Terminal

GW-V10

Transmission Visualization Intelligent Monitoring

## Products:



V10 Multi-lens AI camera has front, rear and Downview multi-directional multi-mirror lenses, which can simultaneously meet the needs of the channel sides, tower base and near tower side of the field of vision blind spot monitoring." Spirit Eye" is feature-rich, in which the rear view lens can be adjusted in all directions, the Downview view lens can be adjusted up and down, and the modular side generation unit design is the first in the industry.

Spirit Eye" not only realizes the movement of the lens, but also meets the monitoring needs of clear vision. Through the application of silent video and other functions, it brings extraordinary visualization experience, further realizes the full coverage of space and time dimensions, meets the monitoring needs of different perspectives and dimensions, truly redefines the visualization camera, improves the intelligent level of transmission line visualization and monitoring, and protects the operation safety of transmission lines.

## **Effective demonstration :**



**Channel Effects** 



Night vision

**Downward-looking effect** 

**Redefining the Visual Gun Machine** 

# **Technical Parameters:**

Camera					
	Zoom: 1/2.7-inch CMOS (either with day vision lens)				
Sensor type	Day vision lens: 1/4 inch CMOS				
	Down view lens: 1/2.8-inch CMOS				
	Rear vision lens: 1/2.8-inch CMOS				
	Night vision lens: 1/2-inch CMOS				
	Zoom: 8 megapixels (either with Day vision lens)				
Pixels	Day vision lens: 16 million				
	Down view lens: 5 million				
	Rear vision lens: 5 million				
	Night vision lens: 2 million				
	Zoom: 3840 x 2160 (either with Day vision lens)				
Maximum	Day vision lens: 4608×3456				
resolution	Down view lens: 2592×1944				
	Rear vision lens: 2592×1944				
	Night vision lens: 1920×1080				
Minimum illumination	0.001Lux				
Camera lens					
	Zoom: 5.15-47.38mm (either with Day vision lens)				
Focal length	Day vision lens: 3.7mm				
of lens	Down view lens: 3.3mm				
	Rear vision lens: 3.3mm				
	Night vision lens: 5mm				

	Zoom: F1.8 - F2.5 (Either with Day vision lens)					
	Day Vision: F2.0					
Lens aperture	Bottom view: F1.05					
aporture	Rear view: F1.05					
	Night vision: F1.0					
Field-of-vi	Zoom: (Either with Day Vision Lens)					
ew angle	V69.5° (W) 7.95° (T)					
	H61.5° (W) 7° (T)					
	D69.5° (W) 7.59° (T)					
	Day vision:					
	v50.6°h64.3°d76.2°					
	Downview vision:					
	v76.2°h101.5°d137.8°					
	Rear view:					
	v76.2°h101.5°d137.8°					
	Night vision:					
	v48°h88°d105°					
Optical zoom	10x (either with Day vision lens)					
Focus mode	Automation					
Professiona	l Intelligence					
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, gravers, 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					
Video						
Video compres sion standard	H.264;H.265;MJPEG					
Day-to-Night Conversion	Time Zone Positioning / Optical Sensing					
Wide dynamic (physics)	Support					
Fog permeability	Electronically transparent fog					
Digital zoom	10x (either with Day vision lens)					
Anti-shake function	Electronic stabilization					
Internet	L					
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					
Functionali	ity					
Regional	Supported					

#### **Redefining the Visual Gun Machine**

Focus							
OSD informatio n overlay	Support channel name, time, preset point position, PTZ coordinates, magnification, geographic location, picture						
Power supply							
Power supply method	Solar panel plus battery						
	Static power consumption: 0.07W (platform online without capture)						
Power wastage	Capture power consumption: 0.22W (front HD camera captures 1 picture every 5 minutes and uploads it to the platform)						
	Peak power consumption: 3.67W (4 cameras simultaneously capture 1 picture and upload it to the platform)						
Solar panel/batter y capacity	18V30W/12.8V20AH 30days						
Power supply	Lithium Iron Phosphate Battery						
Condition							
Operating temperature	-25°C~+70°C						
Operating humidity	5%RH-95%RH						
Protection level	IP67						
Structures							
Shell material	Die-cast aluminum						
Product Size	261mm (L) x 128mm (W) x 128mm (H)						
Net weight	1.85kg						
Installation	Applicable to all levels of voltage level transmission lines, support for vertical poles,						

#### **Redefining the Visual Gun Machine**

	angle steel, round tube and other installation methods					
Other items						
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	≧30000hours					
Camera Adjustability	Omni-directional manual adjustment according to 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 C	onfiguration				
Inclination measurement range: biaxial $-10^{\circ} \sim +10^{\circ}$ (optional $-30^{\circ}$						
Tower tilt S6310	$\sim$ +30°, -60° $\sim$ +60° or -90° $\sim$ +90°); Inclination measurement error:					
	≤±0.05°; Inclination measurement resolution: ±0.01°					
Micro Weather module (Three combinations available) ST6140						
	Wind speed	Wind	Temperat	Humid	Atmospheric	Rainfall
		direction	ure	ity	pressure	
4 Elements	$\checkmark$			$\checkmark$		
5 Elements	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
6 Elements						$\checkmark$

#### **Redefining the Visual Gun Machine**

Technical Parameter						
	Name	Measurement Range	Error Range	Resolut		
	Temperatur e	-30°C~+85°C	±0.5°C	0.1°C		
Micro Weather	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)	0.2mm		
			±4% (when >10mm)			
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						
	Camera pixel: 8 megapixel for general light as standard. Optional					
Sub-machine	16-megapixel general light camera, 2-megapixel night vision camera					

## Annexes (dimensional drawings of equipment)





