Outdoor Panoramic Camera
CV181-N

A weatherproof IP camera with
360° or 180° views up to 6 MP.

Reliable protection has never been this simple.

The **CheckVideo Panoramic Camera (CV181-N)** provides coverage equivalent to four cameras in a single weatherproof package. Featuring a **wide-angle** lens coupled with an industry-leading **6MP sensor**, the CV181-N supports both ceiling and wall mounting options. The camera includes edge de-warping capability and multiplexing to provide two 180 degree views **without blind spots** in a single stream. This enables a single NVR channel to be used for the **equivalent of 4 cameras**, saving software and storage costs. The CV181-N also supports 180 degree panoramas in wall mount mode providing wide area coverage with minimal distortion.

The CV181-N works seamlessly with all CheckVideo IP Gateways and recorders, which add advanced analytics and detection capability to the camera. The camera can be viewed using simply a web browser, through CheckVideo's CloudVMS service, that also enables digital pan, tilt and zoom functions. With just a single network cable required, the CV181-N is easy to install. It is the perfect solution for cost-effective surveillance of outdoor lots, hallways, and retail stores.

CAMERA

COST EFFECTIVE SURVEILLANCE
4 camera views in a single package.

FLEXIBLE PANORAMA MODES
With edge de-warping. Includes support for 360° views in single stream for ceiling mount or panoramic 180° views in wall mount mode.

ADVANCED VIDEO ANALYTICS
Works seamlessly with CheckVideo IP Gateways to detect people, vehicles, and intrusions. Plug and play.

OUTDOOR RATED
Includes an IP 66 weatherproof housing with built-in IR illumination.

VIDEO MANAGEMENT

CHECKVIDEO VMS™
All CheckVideo solutions feature 100% Web-based video management functionality with no servers or software installation required.

VIDEO ALERTS
Pushes notifications of alerts based on analytics detections to central monitoring station, email addresses and/or smartphones.

VIDEO SEARCH ENGINE
Intelligent video search saves time by drilling down to the specific events of interest in seconds rather than hours.

AUTOMATED SYSTEM HEALTH MONITORING
The system issues proactive alerts in case of camera tampering, poor video quality or loss of communication.

CAMERA

Image Sensor
1/1.8" Sony Progressive CMOS

Effective Pixels
6M
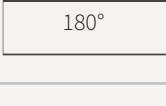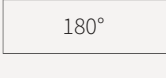
Minimum Illumination
Color 0.04
B/W 0.002

VIDEO

Video Compression
H.264 dual stream

Edge De-warping
360° ceiling mount or 180° wall mount view.

MODE	VIEW	RESOLUTION
All	◯	6 MP
Ceiling	180° / 180°	2688 x 1520 (4MP)
Wall	180°	2688 x 1520 (4MP)

NETWORK

Wired
10/100

Protocols
ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, IGMP, SNMP, QoS, ONVIF

VIDEO MANAGEMENT

VMS Software
Available through CV4IP Gateway, required for operation

GENERAL

Dimensions
ø 117 x 42.7 mm (ø 4.6 x 1.68 in.)

Connectors
Ethernet: RJ-45

Operating Conditions
-10°C ~ 50°C (14° ~ 122°F)
10% ~ 90%, No Condensation
Weatherproof IP66

Power Source
PoE / DC12V

Power Consumption
Operation(802.3af) System   PoE: 7.1W / DC 12V: 8.1W
Operation(802.3af) Others   IR LED: +1.9W / ICR Switching +0.5W

Weight
400g (0.88lb)

Approvals
CE / FCC / RoHS

ALARM

Alarm Features
Video Analytics (requires CV4IP Gateway)
Calibration-free, auto-adapting analytics
Detects people, up to 60 feet
Detects vehicles, up to 100 feet
Detects moving objects (eliminates environmental motion)
Zone violation
Loitering person or stopped vehicle

Video Alarm
10-second video clip generated upon trigger of alarm; contains 2-4 seconds of pre-alarm video

Tamper Alarm
Poor video