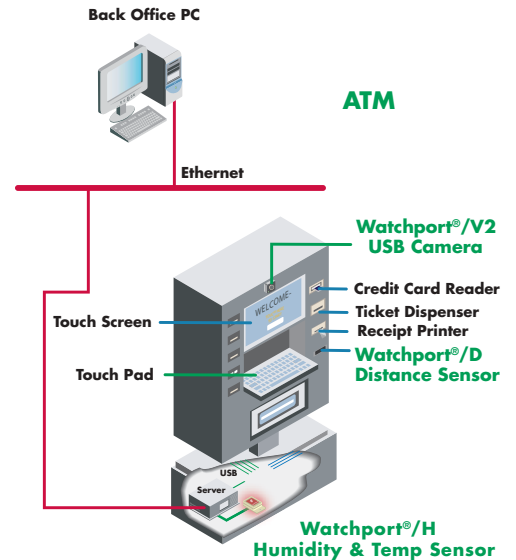


# Watchport® Series

USB Environmental Monitoring Solutions

Create a made-to-order asset monitoring system with USB sensors and vision components.



## Features/Benefits

- > Pre-empt system failures, extend life of equipment and reduce downtime in kiosks, ATMs, server rooms, warehouses and more
- > A' la carte product selection allows total customization
- > Easy to install and configure
- > Free Watchport Manager software sends alerts for remote monitoring
- > Extend distance between sensor and host with CAT5 UTP cable
- > Watchport/V2 USB camera offers exceptional low light sensitivity
- > Microsoft® Windows® compatible

## Overview

The Watchport Series is the first complete line of Plug and Play USB devices for environmental monitoring. Vision components for surveillance, including the Watchport/V2 USB camera and Watchport motion detection software, may be paired with sensors to measure proximity, humidity, temperature, water, distance, acceleration or tilt to create a fully customized monitoring system. The Watchport Series can reduce total cost of ownership, extend life of equipment and reduce system downtime in mission-critical environments like kiosks, ATMs, server rooms, warehouses, data centers and more.

Watchport Manager software, included with each solution, provides centralized device status, supports data logging to preserve historical information and enables the easy integration of multiple sensors without additional software development. For remote monitoring applications, Watchport Manager can provide alerts via email, pager and computer screen, or send an event trigger to an external application.

The application possibilities are almost endless. Monitor temperature and humidity levels in a server room; detect the presence of water in an ATM; activate an information kiosk monitor when a shopper is nearby; or protect confidential information by automatically ending a session at a human resources kiosk when the user is no longer detected. For added flexibility, multiple Watchport devices may be configured and remotely monitored on an IP network with AnywhereUSB®.

Digi International makes device networking easy by developing products and technologies that are cost-effective and easy to use. With over 20 million ports shipped worldwide, Digi has been offering the highest levels of performance, flexibility, and quality since 1985.



# Watchport Sensors | Features and Specifications

## FEATURES

- USB 1.0 and 1.1 compatible; backwards compatibility for 2.0
- Includes USB base, RJ-45 sensing device and Watchport Manager software
- API available for application software development
- Remotely monitor and configure multiple sensors on an IP network with AnywhereUSB/5

### Watchport Manager Software

- Centralized device status
- Historical data logging
- User-defined thresholds
- Pager, email and onscreen alarms for remote monitoring
- Easy integration of multiple sensors without additional software development
- Minimizes into system tray to save screen space

### Watchport/H Humidity & Temperature Sensor

- Collects both relative humidity (RH) and temperature data
- Temperature compensated RH readings
- ASCII command interface
- Maximum reading rate: 20 per second
- Temperature accuracy: +/- 3.6° F (+/- 2° C) at -40° F to +14° F (-40° C to -10° C) and +/- 0.9° F (+/- 0.5° C) at 14° F to 185° F (-10° C to +85° C)
- RH accuracy: +/- 5% at 0-90% non-condensing; +/- 8% over 90%
- RH stability: +/- 1% RH (typical) at 50% RH in 5 years
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

### Watchport/P Proximity Sensor, Watchport/D Distance Sensor

- Photo-electric sensor with hardware controlled sensitivity
- Enables system event triggering with Watchport Manager
  - Automatic log-off
  - Automatic system lock
  - Run user-selectable files such as screen savers, batch files, scripts and executables
- Detection range 1.6 to 4.9 ft (0.5 to 1.5 m)

- Maximum reading rate: 3 per second
- Maximum switching frequency: 100 Hz
- Response delay: ≤5.0 ms (typical)
- Power consumption: 70 mA (max)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

### Watchport/T Temperature Sensor

- ASCII command interface
- Maximum reading rate: 20 per second
- Temperature accuracy: +/- 3.6° F (+/- 2° C) at -40° F to +14° F (-40° C to -10° C) and +/- 0.9° F

- (+/- 0.5° C) at 14° F to 185° F (-10° C to +85° C)
- Temperature resolution: 0.1° C
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 500 ft (152.46 m)

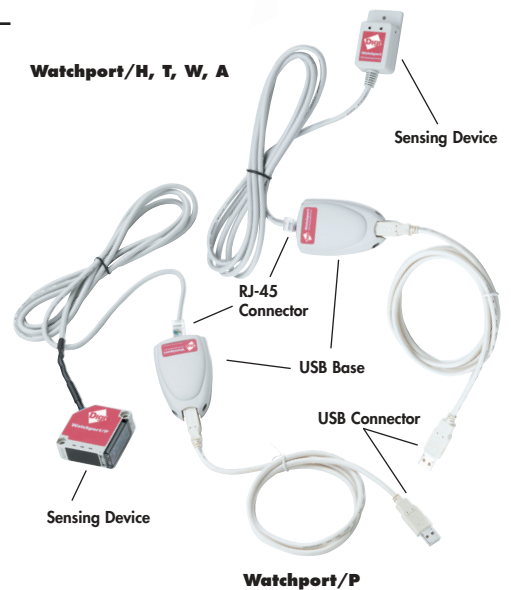
### Watchport/W Water Detector

- 2 gold plated pins detect wetness on a non-conductive surface
- Binary output with "Wet" or "Dry" readings
- Waterproof enclosure
- Maximum reading rate: 5 per second
- Power consumption: 15 mA (normal), 1.0 mA (suspend mode)
- Maximum CAT5 UTP cable length: 1,000 ft (304.8 m)

### Watchport/A Accelerometer

- Dual access accelerometer
- Measures dynamic acceleration or tilt
- Acceleration from -2g to 2g

### Watchport/H, T, W, A



## OPERATING SYSTEMS

- Windows XP, Windows XP Embedded
- Windows NT® 4.0, Windows NT Embedded
- Windows CE
- Windows 2000/Me
- Windows 98/SE
- Windows 95
- Windows Server™ 2003

## REGULATORY APPROVALS

- FCC Part 15, Class B
- CE
- EN55022
- EN55024
- EN60950
- UL 1950
- CSA 2.2 No. 950
- IEC-950

## ENVIRONMENTAL

### USB Base

- Operating temperature: 32° F to 149° F (0° C to 65° C)
- Relative humidity: 0% to 95% (non-condensing)

### Sensing Device

- Operating temperature: -40° F to +185° F (-40° C to +85° C)
- Relative humidity: 0% to 95% (non-condensing)

## POWER REQUIREMENTS

- USB-powered (no external power supply required)

## DIMENSIONS

### USB Base

- Length: 3.15 in (8.00 cm)
- Width: 1.75 in (4.45 cm)
- Height: 0.80 in (2.03 cm)
- Weight: 3.00 oz (85.05 g)

### Sensing Device (Watchport/H, T, W)

- Length: 2.12 in (5.39 cm)
- Width: 1.19 in (3.02 cm)
- Height: 0.69 in (1.75 cm)
- Weight: 3.00 oz (85.05 g)

### Sensing Device (Watchport/P)

- Length: 3.15 in (8.00 cm)
- Width: 1.75 in (4.45 cm)
- Height: 0.80 in (2.03 cm)
- Weight: 3.00 oz (85.05 g)

### Sensing Device (Watchport/A)

- Length: 2.12 in (5.39 cm)
- Width: 1.19 in (3.02 cm)
- Height: 0.69 in (1.75 cm)
- Weight: 3.00 oz (85.05 g)

### Sensing Device (Watchport/D)

- Length: 1.75 in (4.45 cm)
- Width: 0.74 in (1.88 cm)
- Height: 0.85 in (2.16 cm)
- Weight: 3.00 oz (85.05 g)

# Features and Specifications | Watchport/V2 USB Camera

## FEATURES

### Watchport/V2

- Ideal for photo ID badging, kiosks, ATMs, access control and general surveillance
- Only USB camera of its kind with Windows NT drivers
- Motion detection software available to create cost-effective remote monitoring system
- Low light sensitivity: <1 lux
- Adjustable resolutions
  - 1280 x 960 (software enhanced)
  - 640 x 480
  - 352 x 288
  - 320 x 240
  - 176 x 144
  - 160 x 120
  - 128 x 96
- Maximum frame rates by resolution
  - 30 fps at all resolutions
- Removable 4.9 mm lens; F:2.0 adjustable
- Optional lens pack available
  - 3 mm wide angle (green)
  - 8 mm close-up (red)
  - 12 mm telephoto (blue)
- Optional mounts
  - Wall mount
  - Clamp mount
- Exposure controls
  - Manual and automatic gain and shutter control,
  - Automatic white balance (AWB)
  - Manual color balance
  - Color saturation
- Color formats: 16.8 million TrueColor (24 bit RGB), YUY2, UYVY
- Motion JPEG compression
- Sensor: color CCD
- Scan frequencies: 60, 50, 30, 25, 15, 12.5, 7.5, 6.25 and 4 Hz
- Shutter rate controls: 1/4 second to over 1/30,000 second

## STANDARDS AND PROTOCOLS

- Microsoft DirectShow WDM
- Microsoft Video for Windows
- TWAIN

## POWER REQUIREMENTS

- USB-powered (no external power supply required)

## ENVIRONMENTAL

- Operating temperature: 32° F to 149° F (0° C to 65° C)
- Relative humidity: 0% to 95% (non-condensing)

## OPERATING SYSTEMS

- Windows XP, Windows XP Embedded
- Windows NT 4.0, Windows NT Embedded
- Windows 2000/Me
- Windows Server 2003

## DIMENSIONS

### Watchport/V2

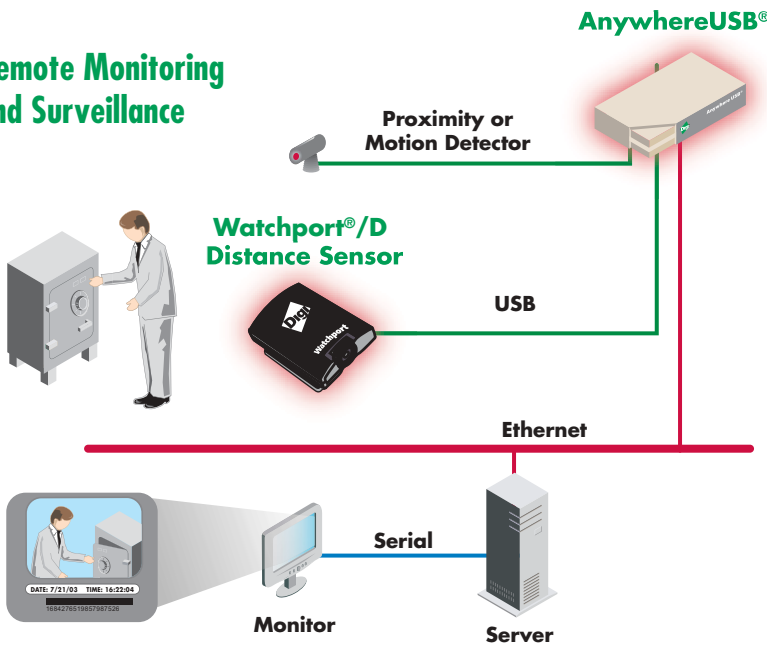
- Length: 3.5 in (9.0 cm)
- Width: 2.5 in (6.4 cm)
- Height: 1.5 in (3.8 cm)
- Weight: 4.5 oz (127.6 g)

## REGULATORY APPROVALS

- FCC Part 15, Class B
- CE
- EN55022
- EN55024
- EN60950
- UL 1950
- CSA 2.2 No. 950
- IEC-950



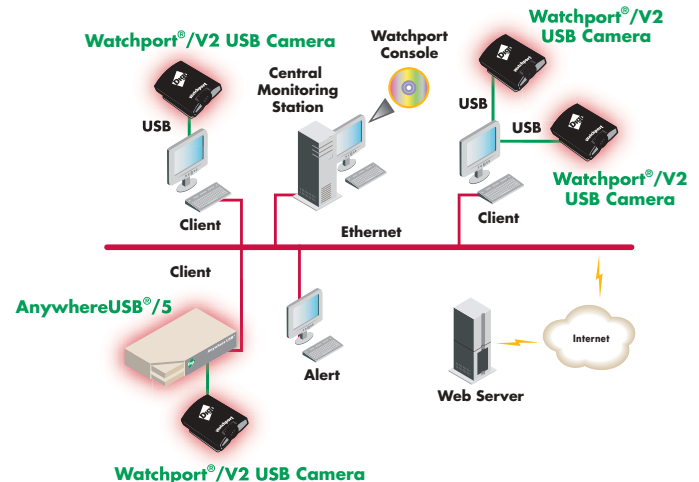
## Remote Monitoring and Surveillance



# Create a Low-Cost Surveillance System with Watchport/V2 and Motion Detection Software

Digi makes it easy to create a remote monitoring system to protect an office, warehouse, data room, gas pump, cash register, parking lot or other property. Watchport/V2 plus Watchport Sentry (single camera per host) or Watchport Console (multiple cameras per host) motion detection software offers a cost-effective alternative to CCTV and other remote surveillance solutions.

- Sensitivity controls and user-defined masks eliminate spurious motion detection; compensates for changes in lighting
- Instant playback allows user to review motion captured on a given day
- Automatic zoom
- Automated image archiving or deletion
- Motion map feature displays summary of motion over time
- Time lapse or webcam mode allows user to schedule operating periods for specific times and days of the week
- Name, time and date stamping of recorded images
- Image encryption to detect tampering



## MODEL.....PART NUMBERS

Model	North America	International
Watchport/H (Humidity & Temperature Sensor)	301-1141-01	301-1141-01
Watchport/P (Proximity Sensor)	301-1143-01	301-1143-01
Watchport/T (Temperature Sensor)	301-1144-01	301-1144-01
Watchport/W (Water Detector)	301-1145-01	301-1145-01
Watchport/D (Distance Sensor)	301-1146-01	301-1146-01
Watchport/A (Accelerometer)	301-1147-01	301-1147-01
Watchport/V2 (USB camera)	301-9010-01	301-9010-01
Watchport/V Lens Package (optional)	301-9015-01	301-9015-01
Watchport/V Wall Mount (optional)	301-9018-01	301-9018-01
Watchport/V Clamp Mount (optional)	301-9019-01	301-9019-01
Watchport Sentry Software License (single camera per host)	301-9026-01	301-9026-01
Watchport Console Software License (2 cameras per host)	301-9027-01	301-9027-01
Watchport Console Plus Software License (4 cameras per host)	301-9028-01	301-9028-01
Watchport Console Extra License (for additional Console connections)	301-9029-01	301-9029-01

Additional Watchport Sensors in development. Contact us for details.

## DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty. <http://support.digi.com>

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