Panasonic WV-S3512LM is a compact & simple design multifunction camera that achieves high visibility even under extreme conditions and can be placed in a small space without damaging the landscape. Intelligent Auto (iA) allows the camera to automatically adjust the key settings in real-time depending on the scenery and movement, reducing distortion such as motion blur and moving objects. New industry-leading 134dB dynamic range delivers balanced scene exposure in dynamic and extreme-backlit lighting environments. In addition, color night vision provides outstanding low-light performance with accurate color rendition and saturation from i-Pro’s 1/3” sensor, rivaling the performance of costlier 1/2” sensor cameras in the market. The adopted H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to 95%* more than conventional H.264 for longer recording and less storage. Cameras out-of-the-box, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

*Value in Advanced mode with Smart Facial Coding depends on scene.

Extreme image quality allows evidence to be captured even under challenging conditions
- Auto Shutter speed control for fast moving objects with Intelligent Auto
- Sharp and clear images of a walking person day & night
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 134dB for backlit situations involving headlights and shadows on night streets
- Built-in IR LED to produce a clear monochrome image in 0 lux conditions with 15 m (49 feet) irradiation distance
- Wide area surveillance even in compact design. moreover, corridor mode to survey vertically long area.
- Environmental durability : IP66, IK10, EN50155

Extreme bandwidth compression with new Panasonic H.265 Smart Coding
- Longer recording and less storage compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) detects movement within the image and compresses the areas with little motion in order to reduce transmitted data while maintaining the quality of the image.
- New “Smart Facial Coding” adds more bandwidth reduction for ID camera applications mainly capturing faces
*Region of Interest

Extreme Data Security
- Full encryption microSDXC/microSDHC/microSD card edge recording to keep your data safe
- FIPS140-2 CAVP compliant. *Using encryption module standardized by FIPS publication 140-2
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features
- HD 720p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 134dB
- Color night vision (0.0013 to 0.02 lx)
- H.265 Smart Coding
- Built-in IR LED
- Corridor mode
  (90 degrees or 270 degrees in image rotation)
- i-VMD License Bundled

Industry examples
- Train
- Light rail transit
- Subway car
- Bus
- Railroad Crossing
Specifications

Camera
- Image Sensor: Approx. 1/3 type CMOS (image sensor)
- Minimum Illumination: Color: 1 lx (0.6 lx) at F/1.3, Maximum shutter: Off (1/30s), AGC: 11
  BW: 0.5 lx (F/2.3, Maximum shutter: Off (1/30s), AGC: 11, when the IR LED is off)
- White Balance: AW: (2,000 - 10,000 K), ATR7 (2,700 - 6,000 K), ATR9 (2,000 - 6,000 K)
- Maximum shutter: Max. (1/10000) s to Max. (1/250)
- Intelligible Auto: Off / On
- Dynamic Range: 134 dB (Super Dynamic: On)
- Adaptive Black Stretch: The level can be set in the range of 0 to 11.
- Service Area: On / Off by when Intelligent Auto / auto contrast adjust: Off
- Maximum gain: The level can be set in the range of 0 to 11.
- Color/IR (Off): Off (8 IR light) / On (8 IR light) / Auto (8 IR light) / Auto (16 IR light)
- LED Light: Off / On (8 LED) / On (16 LED) / Auto
- Digital Noise Reduction: The level can be set in the range of 0 to 255.
- Video Motion Detection (VMD): Off / On, 4 areas available
- Intelligent VID (VID)
  - Type 4: Bundled License
  - Privacy Zone: On / Off up to 8 zones available
- Image rotation: 90° / 180° / 270° / 360°
- Mirror: Off / On
- Camera Title (SSID): On / Off to up to 20 characters (alphabetic characters, marks)

Lens
- Digital electronic zoom: Choose from 3 levels of x1, x2, x4
- Focal length: 3.8 mm (1/8 inch)
- Maximum Aperture Ratio: 1.2.9
- Aspect ratio: 0.561 mm (19-17/64 inches)
- Adjusting Angle:
  - Horizontal (PAN) angle: ±90°
  - Vertical (TILT) angle: ±45°
  - Vertical (TILT) angle: 0 to +90°
- Built-in Microphone: Built-in microphone
- IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant
- DC48 V 80 mA, Approx. 3.8 W (Class 2 device)

Network
- Network Protocol:
  - IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MDL, ICMP, ARP, IPv6: 802.1X, DHCPv6, TCP/IP, UDP/IP, HTTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UPNP, IGMP, ICMP, ARP, EEC-62.18, OnVif
- Transmission Type: Unicast / Multicast
- Transmission Mode: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
- Transmission for 4 streams can be individually set.
- Video Motion Detection (VMD) is possible to detect objects in the specified area by advanced video analysis technology.
- i-VMD is possible to detect objects in the specified area by advanced video analysis technology.
- Panasonic alarm output
- Alarm Source: MDI alarm*, Terminal alarm, Audio detection alarm
- Alarm Actions: microSDXC/microSDHC/microSDHC/microSDXC memory recording, E-mail notification, HTTP alarm notification indication on browser, FTP image transfer, Panasonic alarm protocol output
- Input / Output
  - Alarm Input: Built-in microphone
  - MIND: Optional external decoder microphone

General
- Safety:
  - UL, UL1990-1 (UL), UL60950-1 (UL), CE, CB, FCC (Part15 Subpart B, ClassA, ICES-003 ClassA)
- Dimensions: 190 x 118 x 50.5 mm [2.6 inches x 4.6 inches x 1.9 inches]
- Net Weight: Approx. 410 g {0.91 lbs}
- Temperature: -40 °C to +60 °C (-4 °F to +140 °F)
- Relative Humidity: 95% or less (non-condensation)
- Built-in Fan: Off (1/30 s), AGC: 11, when the IR LED is lit
- Approx. 170 CFD (US weight)
- Max. Current: 2A (≤ 218 AA)
- Approx. 1/3 type CMOS image sensor
- Brightness: Robust
- Power Consumption: 12 VDC
- Interchangeable Lens: Supports

Audio Compression
- G.726 (ADPCM): 16 khz / 32 khz
- G.711: 64 khz
- AAC-LC: 48 khz / 32 khz
- FSK: 2,000 - 10,000 K, ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)

Product Information
- Trademarks and registered trademarks:
  - Apple, iPad, iPhone, Android are trademarks of Apple Inc., registered in the U.S. and other countries.
  - Android is a trademark of Google LLC.
  - ONVIF and the ONVIF logo are trademarks or registered trademarks of Onvif Inc.
  - All other trademarks identified herein are the property of their respective owners.
- Important:
  - Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before installing this product.
  - Panasonic cannot be responsible for the performance of the network and/or other manufacturers’ products used on the network.
  - Masses and dimensions are approximate. Specifications are subject to change without notice.