



**CITY OF BALLWIN**

**14811 Manchester Road, Ballwin, MO 63011**

**BILL NO. 3816**

**ORDINANCE NO. \_\_\_\_\_**

INTRODUCED BY

ALDERMEN TERBROCK, FINLEY, HARDER, DOGAN, FLEMING, LEAHY, KERLAGON, BOLAND

**AN ORDINANCE GRANTING A SPECIAL USE EXCEPTION TO TOWER LOAN OF MISSOURI FOR OPERATION OF A FINANCIAL BUSINESS AT 15264 MANCHESTER ROAD.**

WHEREAS, a petition has been received from Tower Loan of Missouri, requesting the use of certain property for operation of a financial business at 15264 Manchester Road; and

WHEREAS, said petition was duly referred to the Planning and Zoning Commission for its investigation and report; and

WHEREAS, due notice of a public hearing before the Planning and Zoning Commission upon said petition was published and posted according to law and ordinance; and

WHEREAS, a public hearing was held before the Planning and Zoning Commission on November 4, 2013, upon said petition; and

WHEREAS, the Planning and Zoning Commission has submitted its report recommending approval to the Board of Aldermen; and

WHEREAS, the Board of Aldermen has determined that an establishment for the purposes disclosed above, under certain conditions, would not substantially increase traffic hazards or congestion; would not adversely affect the character of the neighborhood; would not adversely affect the general welfare of the community; would not over-tax public utilities; would not adversely affect public safety and health; is consistent with good planning practice; can be operated in a manner that is not detrimental to the permitted developments and uses in the District; and can be developed and operated in a manner that is visually compatible with the permitted uses in the surrounding area; and

WHEREAS, all applicable matters in Section 2 of Article XIV of Ordinance No. 557, "The Zoning Ordinance," have been adequately provided for:

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF BALLWIN, ST. LOUIS COUNTY, MISSOURI, AS FOLLOWS:

Section 1. A special use exception, subject to the conditions hereinafter specifically set forth, is hereby granted to Tower Loan of Missouri, to use the premises in the City of Ballwin, Missouri, known as 15264 Manchester Road for operation of a financial business, as is made and provided for in Article XIV of Ordinance No. 557.

Section 2. The special use exception hereby issued, and referred to in Section 1, is issued to the named permittee only and shall not be assigned or transferred, without the permission of the Board of Aldermen of the City of Ballwin.

Section 3. The special use exception hereby issued and referred to in Section 1, shall be valid only if the conditions set forth in the Addendum, attached hereto as Exhibit 1 and made a part hereof, are observed by permittee.

Section 4. This Ordinance shall take effect and be in full force from and after its passage and approval.

PASSED this \_\_\_\_\_ day of \_\_\_\_\_, 2013. \_\_\_\_\_  
*TIM POGUE, MAYOR*

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 2013. \_\_\_\_\_  
*TIM POGUE, MAYOR*

ATTEST: \_\_\_\_\_  
*ROBERT KUNTZ, CITY ADMINISTRATOR*

**EXHIBIT ONE**

The permittee granted a Special Use Exception per the ordinance hereby appended to, their assignees and successors, as authorized and approved by the Board of Aldermen of the City of Ballwin, agree to abide by the following provisions, the provisions of all ordinances of the City of Ballwin, and all applicable laws of St. Louis County, the State of Missouri and of the United States of America and to require all licensees, franchisees, and lessees to similarly abide by said ordinances, laws and provisions, as appropriate to such special use exception. In addition, the following provisions, as appropriate, shall apply:

1. There is no outdoor storage, display or sale of any merchandise, equipment, vehicle, supplies or product except as may be provided and limited by this Special Use Exception or ordinance of the City of Ballwin.
2. There is no servicing, repair, cleaning, maintenance or other work on any merchandise, equipment, vehicle, materials, supplies, or product except as may be provided and limited by this Special Use Exception or ordinance of the City of Ballwin, except within a fully enclosed building which shall not include carports, porte-cocheres, accessory structures or temporary coverings and/or enclosures such as tents, tarpaulins, flies, or other similar structures.
3. Any violation of the laws, statutes, ordinances, codes, policies and regulations of the City of Ballwin, St. Louis County, the State of Missouri, or the United States of America by the permittee, its agents, servants or employees shall be cause for the revocation of the Special Use Exception hereby granted.
4. That the site, premises and/or land use described by the permittee in the application and subsequently approved by this ordinance is developed and operated in accordance with the final approved development plan and the provisions of this ordinance, and any failure to do so shall be cause for the revocation of the Special Use Exception hereby granted.
5. All new utility and other service laterals and connections on the site and/or premises, and all connections to site improvements and fixtures installed outside of a fully enclosed building shall be installed underground.
6. All sign illumination and other lighting is selected and arranged so as not to cast light upon, and/or be a nuisance, to any right-of-way or any other property.
7. Trash and debris shall not be allowed to accumulate and the site/premises shall at all times be kept clean and free of all refuse, debris, leakage and recyclable material accumulation.
8. All trash dumpsters and recyclable material storage areas shall be screened with a 100% opaque screen which shall totally obscure any visibility of the dumpster and recyclables container. Such screening shall be permanent in nature and architecturally compatible with the associated development. Said enclosure and screening may not be located within any front yard and shall not interfere with driver visibility or any loading, parking or vehicular circulation.
9. Unless otherwise provided by this Special Use Exception or other ordinances of the City of Ballwin, no vehicles, equipment or property may be parked or stored on the premises for which this permit is issued except non-commercial vehicles as defined by the Ballwin Ordinances and one fully operational and licensed delivery/service vehicle per business or tenant or use operated on the premises.
10. No changes or departures from the approved final development plan may be made without the approval of the Board of Aldermen in accordance with the provisions of Article XIV, Section 3, of the Ballwin Zoning Ordinance.
11. This Special Use Exception shall terminate three months following the non-renewal of the business license for the business associated with the location for which the Exception is granted.
12. Permittee shall comply in all respects with the provisions of Article XIV, Section 1.(5) with respect to financial businesses regulated by the Missouri Division of Finance.

Government Center  
14811 Manchester Road  
Ballwin, MO 63011-4617



(636) 227-8580  
Fax: (636) 207-2320  
[www.ballwin.mo.us](http://www.ballwin.mo.us)

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November 7, 2013

Mayor Tim Pogue & Board of Aldermen  
City of Ballwin  
14811 Manchester Road  
Ballwin, MO 63011

**RE: SUE 13-05 – Special Use Exception (Operation of a Financial Business)**  
**Tower Loan of Missouri, 15264 Manchester Rd, Ballwin MO 63011**  
***Petitioner: Mr. John E. Tucker, Tower Loan of Missouri LLC, PO Box 320001, Flowood MS 39232***

Dear Mayor Pogue and Aldermen:

At the regular meeting of the Planning and Zoning Commission held on November 4, 2013, the above-proposed item was reviewed. A draft of the minutes will be forwarded to you as soon as it is available.

- The Commission members present voted 6-1 to recommend approval of Petition SUE 13-05 to the Board of Aldermen, with provisions (see minutes).

Commission members present were Michael Wind, Mike Utt, John Schwent, Chris Wright, Mark Weaver Alderman Boland and Mayor Tim Pogue. Lynn Goetz and Frank Karr were absent

Sincerely,

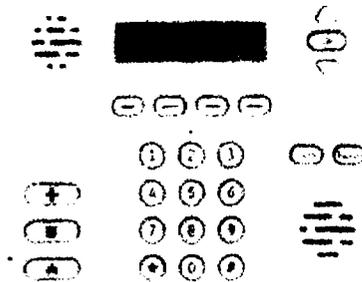
Frank Karr, Acting Chairman  
Planning & Zoning Commission

cc: City Administrator  
City Attorney  
Chairman, Planning & Zoning Commission

p & 2 meeting w 11/4/13

# Simon XT

Reliable, wireless security  
conveniently controlled  
when home or away



## Key Features

Simon XT® is a cost-effective security system that offers up to 40 zones of burglary and fire protection, and which complies with SIA False Alarm Standards. With a built-in display touchpad and a status speaker that provides visual and voice messages for feedback, Simon XT is well suited for houses, apartments, and condominiums. Optional GSM reporting and alarm.com features support off-premises control to arm and disarm the system, check system status, activate no-entry delay, or activate the latchkey feature.

The Simon XT panel comes standard with 40 wireless zones, or it can be set up with 38 wireless zones and two built-in hardwired supervised burglary zones (normally-closed loop only). The built-in radio receiver works with both crystal and SAW LearnMode™ sensors.

Simon XT supports convenient system operation from anywhere within the premises with the use of wireless Two-Way Talking Touch Screens and/or touchpads. Optional Keyfobs (two- and four-button versions) can also be used for convenient local system control. In addition to using the Simon XT as a security system, optional wireless devices can be added to provide control over other functions for added convenience. These devices include Z-Wave® wireless lighting control devices, Z-Wave wireless thermostats for home HVAC systems and Z-Wave door lock controls.

Simon XT can send messages to a central monitoring station using SIA or Contact ID (CID) formats. The panel can also report alarms to another land-line phone location or cell phone using Voice Event Notification. Built-in two-way voice capability with VOX (Voice-Activated Switching) provides additional security and emergency contact with the control monitoring station.

## Additional Features

- 40 wireless zones — two can be hardwired (normally-closed loop only)
- Built-in PSTN 2-way voice capability (over GSM with optional module)
- Supports both crystal and SAW LearnMode sensors
- Supports repeaters
- Supports 2-way RF products (version-specific)
- Chime feature for monitoring door, window or motion activity
- 1 master access code and 8 programmable user access codes of 3 to 6 digits
- SIA or CID central station reporting formats and Voice Event Notification reporting via PSTN (native) and/or optional GSM and IP modules
- Programmable No Activity and No Usage report features
- Meets SIA False Alarm Standards
- 100-event buffer with time-and-date stamp
- Panel voice and beeps that can be disabled
- Program panel with built-in touchpad or Enterprise Downloader software v3.4 or later
- Digitized voice
- Expansion options
  - Internet-based interactivity (with third-party providers)
  - Support for on-premises remote control with optional talking touchpad accessory

|  |   |
|--|---|
| Required transformer                   | Class II, 9 VAC, 3.34A, 60 Hz (60-899, 60-899-CN in Canada)           |
| Fuse                                   | Non-replaceable transformer fuse                                      |
| Backup batteries                       | 6 VDC, 1.2 Ah lead acid (60-914)                                      |
| Backup time                            | 24 hours (fully charged)  |
| Battery test                           | 10 seconds under load every 4 hours                                   |
| <b>Radio</b>                           |   |
| Type                                   | SAW-controlled superheterodyne  |
| Frequency                              | 319.5 MHz/ Bandwidth 350 kHz  |
| Sensitivity                            | 110 dBm nominal   |
| Norm. range without GSM module present | 1000-ft. open-air receiving range                                     |
| Norm. range with GSM module present    | approx. 500-ft. open-air receiving range                              |
| <b>Telephone</b>                       |   |
| Dialing                                | DTMF or pulse   |
| Modem                                  | Modified Bell 103 (110 or 300 bps)                                    |
| Telephone interface                    | Line seizure relay  |
| <b>Input/Output</b>                    |   |
| Total input zones                      | 40 or 38 wireless and 2 hardwire (normally-closed loop only)          |
| Auxiliary power                        | Unregulated 5.1 to 12 VDC; power-limited to 250 mA (maximum) @ 10 VDC |
| Siren output                           | 1 Hardwire Interior Siren (5.1 to 9 VDC)                              |
| <b>Environment</b>                     |   |
| Operating temperature                  | 32 to 122°F (0 to 49°C)   |
| Relative humidity                      | 90% max., non-condensing  |
| <b>Physical</b>                        |   |
| Color                                  | White   |
| Dimensions (LxWxD)                     | 5.7 x 7.05 x 2.1 in. (144 x 179 x 53 mm)                              |
| Weight, without battery                | 1.0 lb. (454 g)   |
| Installation                           | Wall mount  |
| Construction, chassis                  | ABS   |
| <b>Compliance</b>                      |   |
| FCC                                    | Part 15, Part 68  |
| UL                                     | 985, 1023, 1635/ULC Listing ORD C102319-74,ULC-S545-M89               |
| CSFM                                   | California State Fire Marshall  |
| CP01                                   |   |

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**NOV 07 2013**

**CITY OF BALLWIN**

- Simon XT starter package without X10
- Simon XT 3/1/1 SAW package A5 without X10
- Simon XT Crystal package C5 without X10
- Simon XT 3/1/1 Kit w/Z-Wave, GSM for T Mobile Network
- Simon XT w/Two-Way Talking Touch Screen & GSM Kit
- Simon XT w/Two-Way Talking Touch Screen

# Simon XT

North America  
T 855-286-8889

Asia  
T 852-2907-8108

Australia  
T 61-3-9239-1200

Europe  
T 32-2-725-11-20

Latin America  
T 561-998-6114

- Crystal door/window sensor
- SAW door/window sensor
- 4-button keychain (keyfob)
- Wrist panic sensor
- SAW pet immune motion sensor
- Interior siren
- Exterior siren
- Simon XT Two-Way Talking Touch Screen
- Carbon Monoxide
- DesignLine door/window sensor
- DesignLine 4-button keypad
- Smoke detector
- Water sensor
- Freeze sensor
- GSM radio for XT/XTi with Z-Wave (T-Mobile)
- GSM radio for XT/XTi with Z-Wave (AT&T)
- CDMA radio for XT/XTi with Z-Wave (Verizon)
- Z-Wave advanced thermostat
- Z-Wave plug-in fluorescent light and appliance module
- Z-Wave plug-in lamp module
- Z-Wave outdoor module
- Z-Wave in-wall on/off switch

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Zensys A/S. Complies with FTC and Industry Canada regulations.

Security

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Micro Multi-purpose Panic Button

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### Overview

The GE Micro Multi-purpose Panic Button features an updated design that is both chlorine- and UV-resistant for long-lasting and reliable performance. In addition, the Panic Button is water-resistant and functions as a wireless device used for activating police, fire, or auxiliary alarms throughout the premises. When the panic button is pressed, the LED mounted under the front cover will blink and an alarm signal is transmitted.

The status of the battery is sent in every transmission, and the battery is field-replaceable.

The button also has five adapters that easily fit onto the panic button. Using these adapters, the panic button can be mounted on the wall, worn as a belt clip, watch, or pendant for maximum flexibility.

### Features

- Activates police, fire, or auxiliary alarms
- Works with all 319.5 MHz Learn Mode panels
- Water-resistant rating to IPX7 (1 meter for 30 minutes)
- Includes adapters for wall mounting or wearing as a belt clip, watch, or pendant

### Specifications

#### Compatibility

All 319.5 MHz Learn Mode panels

#### Power supply

One 3.0 V Duracell (DL2032) lithium battery

#### Indicators

One module/panel communications status LED

#### Frequency

319.5 MHz

#### Transmitting range

At least 375 ft. (114 m) open-air range

#### Temperature

Operating: 32 to 120°F (0 to 49°C)

Storage: -30 to 140°F (-34 to 60°C)

#### Maximum Humidity

90% relative humidity, noncondensing

#### Enclosure

Water-resistant rating to IPX7 (1 meter for 30 minutes)

#### Standard Listings

FCC Part 15

#### Dimensions

Without adaptors or wristband 1.5" x 1.3" x .5" (LxWxD)

### Ordering Information

60-906-95

Micro multi-purpose panic button

#### North America

T 561-998-6100

T 888-GE-SECURITY

888-(437-3287)

F 561-998-6224

E rs-bctinfo@ge.com

#### Asia

T 852-2907-5108

F 852-2142-5063

#### Australia

T 61-3-9239-1200

F 61-3-9239-1299

#### Europe

T 32-2-725-11-20

F 32-2-721-40-47

#### Latin America

T 305-593-4301

F 305-593-4300

gesecurity.com

Specifications subject to change without notice

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# Micro Multi-purpose Panic Button

Water-resistant wireless device



Overview

The supervised photoelectric smoke alarms/detectors are self-diagnostic Learn Mode wireless sensors with 319.5MHz transmitters with a self-contained sounder, a low battery annunciator, status LED, and integrated fixed temperature and rate-of-rise heat sensor. Each unit will communicate an alarm condition to a GE compatible control panel. In addition, the mounting tamper will send a trouble condition if the detector is removed from the base.

The supervised wireless models are available in two types. The TX Series residential supervised models can be used with all GE Security control panels that support wireless devices and the commercial 60-849 Series supervised wireless models can only be used with Advent commercial panels. Supervised wireless models ship with batteries and transmitters included.

All of the battery operated photoelectric smoke detectors continually monitor operational status and provide a visual trouble condition if they drift out of the sensitivity range or fail internal diagnostics.

The series meets NFPA 72 field sensitivity testing requirements without the need for external meters. The alarm sensitivity level can be determined at the unit.

Another feature is built-in drift compensation that allows the alarm to adjust sensitivity automatically as it becomes dirty over time. The drift compensation feature dramatically increases the time between cleaning, as well as reduces false alarms.

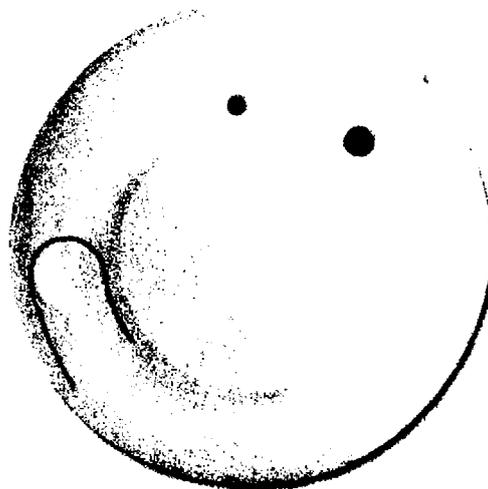
Standard Features

- 3V Lithium battery operated
- Field replaceable optical chamber
- Built-in 85dB temporal sounder
- Built-in drift compensation
- Built-in heat detection
- Learn Mode
- 319.5MHz crystal transmitter
- Alarm signal sent to central station on test
- Low battery prealarm sent to control station

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# Supervised Wireless Smoke Detectors

TX-6010-01-1, 60-849-02-95



# Security

U.S.  
T 888-GESECURty  
F 503-691-7566

Canada  
T 519 376 2430  
F 519 376 7258

Asia  
T 852 2907 8108  
F 852 2142 5063

Latin America  
T 305 593 4301  
F 305 593 4300

[www.gesecurity.com/firework](http://www.gesecurity.com/firework)

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## Specifications

| Electrical                    |  |
|-------------------------------|--|
| Voltage                       | 3 VDC  |
| Average standby current       | 35 $\mu$ A, typical  |
| Test current                  | 2 mA, typical  |
| Alarm current                 | 70 mA, typical   |
| Battery type                  | 3V lithium-Duracell® 123, Sanyo® and Panasonic® CR123A           |
| Low battery threshold         | 2.7 V causes low battery signal                                  |
| Features                      |  |
| Sounder                       | 85dB at 10 ft., temporal pattern                                 |
| Low battery beep rate         | 1 every 45 $\pm$ 2 seconds                                       |
| Sensitivity                   | 2.3% $\pm$ 0.890%  |
| Environmental                 |  |
| Operating temperature         | 40 to 100°F (4 to 38°C)  |
| Operating humidity range      | 0 to 95% noncondensing   |
| RF immunity                   | 20V/minute minimum; 1 to 1000 MHz                                |
| Drift compensation adjustment | 0.5%/ft. maximum   |
| Rate of rise                  | 15°F/minute > 105°F (8.3°C/minute > 40.6°C)                      |
| Fixed                         | 135°F $\pm$ 5°F (57.2°C $\pm$ 2.8°C)                             |
| RF frequency                  | 319.5 MHz  |
| Transmitter ID                | Preprogrammed, 1 million codes                                   |
| Modulation type               | AM   |
| Signal format                 | Pulse-width modulation   |
| Output types                  | Alarm, restore, tamper, low battery, trouble, 1 hour Supervisory |
| Physical                      |  |
| Color                         | White  |
| Alarm dimensions              | 5.6 x 2.4 in. (142 x 61 mm)                                      |
| Base dimensions               | 5.4 x 0.46 in. (137 x 12 mm)                                     |

Regulation:  
FCC, CSFM, TX Series UL 217, 60-849-02-95 UL 268 only with Advent Panel

## Ordering Information

| TX-6010-01-1 | Supervised residential wireless smoke detector for use with all GE Security panels, 85dBa sounder, fixed/rate-of-rise alarm, transmitter, batteries, UL 217 |
|--------------|---|
| 60-849-02-95 | Supervised commercial wireless smoke detector for use with Advent panels, 85dBa sounder, fixed/rate-of-rise alarm, transmitter, batteries, UL 268           |
| Accessories  |   |
| SM-200       | Smoke! in a Can® (canned smoke) for functional testing of smoke detectors, pack of 12   |
| SM-EXT1      | Smoke! in a Can extension tube  |
| 211          | Replacement optical chambers, pack of 10  |
| 60-733       | 3V lithium battery 6 pack   |



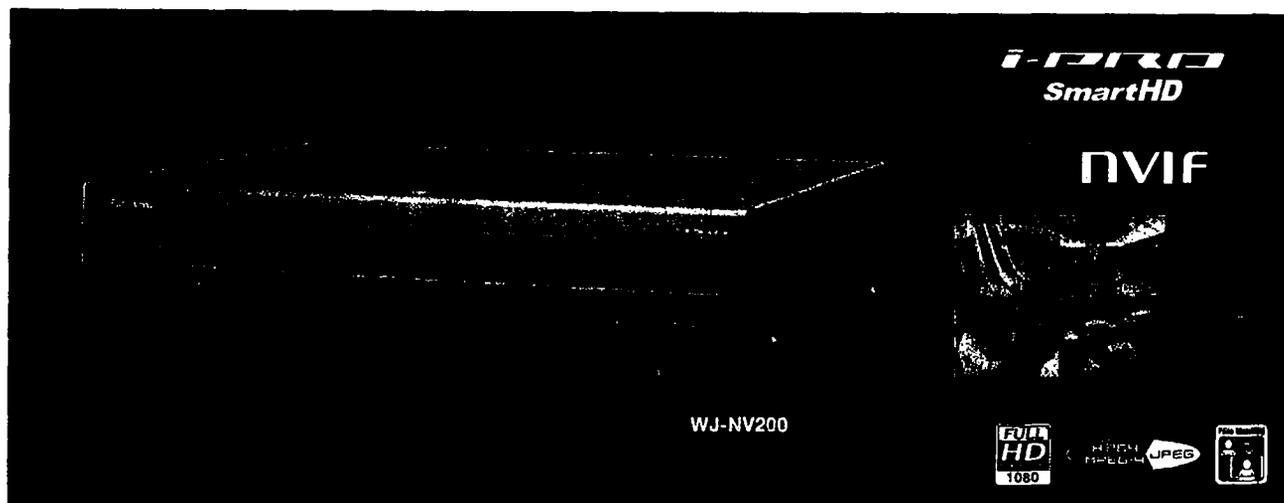
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**Panasonic**  
ideas for life

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Network Disk Recorder  
**WJ-NV200**  
Network Disk Recorder with DVD drive  
**WJ-NV200V**



## Video Decoder built-in 16ch Network Disk Recorder with Face Matching capability

### Key Features

- H.264, MPEG-4 and JPEG multi format
  - Up to 16 network cameras can be connected and recorded.
  - Quick setup by automatic camera detection and simple setup wizard without the use of PC
  - "Referenced recording days" is automatically calculated by frame rate, image quality and HDD capacity.
  - Simple mouse operation by new GUI without the use of PC
  - Quick intuitive search with calendar and timeline
  - Live images from up to 16 cameras can be displayed simultaneously.
  - Supports the Full HD output (HDMI) that can display recorded images and live images in high definition
  - Real Time Face Matching function by matching registered face images with a face displayed on live images
- \* Only channel 1 \* Cameras supporting face detection function is required. (WV-NP502, WV-SP305, or WV-SP306 is recommended.)
- Face matching alarm is notified by Buzzer / E-mail / Panasonic alarm / Terminal output / Indicator.
  - Various alarm sources include 9x Terminal inputs, 16x Camera alarm, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
  - Camera Control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on camera model)
  - Audio from the i-PRO network cameras can be recorded and played back, G.726 (ADPCM) 32 kbps.
  - Flexible Playback Controls: Goto Date (Jump to specific time/date), Goto Last (Jump to 30 s before the record end)
  - Various Display Modes: Spot, Multiscreen (4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen)
  - Various Recording Modes: Schedule, Event (Pre/Post)
  - Filtered Search: Time & Date, Event Type, Camera number, Timeline
  - Recorded images can be downloaded to a PC.
  - Downloadable viewer software allows playback of images downloaded from the Recorder.
  - Built-in network interface (10Base-T / 100Base-TX / 1000Base-T) for recording and client access

- Up to 4 clients can monitor image and control WJ-NV200 simultaneously.
- Up to 2 HDDs (3.5 inch Serial ATA) can be installed. (WJ-NV200 only)
- User authentication, 3 user levels and User level - Camera partitioning setup for user management of up to 16 user registrations
- Multi-recorder, Multi-site system can be made with optional WV-ASM200 i-PRO Management Software.
- Onvif NVC (Network Video Client), core spec Ver.1.02 conformant
- DVD drive built-in (WJ-NV200V)

### Standard Accessories

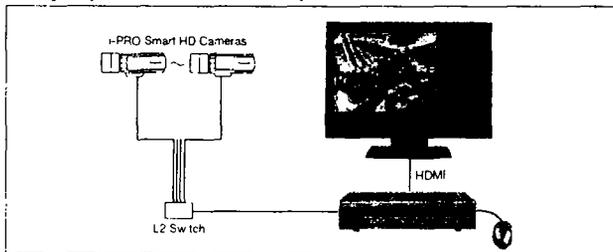
|                               |       |  |        |
|-------------------------------|-------|--|--------|
| • CD-ROM* .....               | 1 pc. | The following are for installation:                      |        |
| • Mouse .....                 | 1 pc. | • Power Cord .....                                       | 1 pc.  |
| • Installation Guide .....    | 1 pc. | • HDD Fixing Screw.....                                  | 8 pcs. |
| • Quick Reference Guide ..... | 1 pc. | * The CD-ROM contains the operating instructions (PDFs). |        |

### Additional Kit

Additional Business Intelligence Kit  
WJ-NVF20



### Easy Operation and Setup without PC



# Specifications

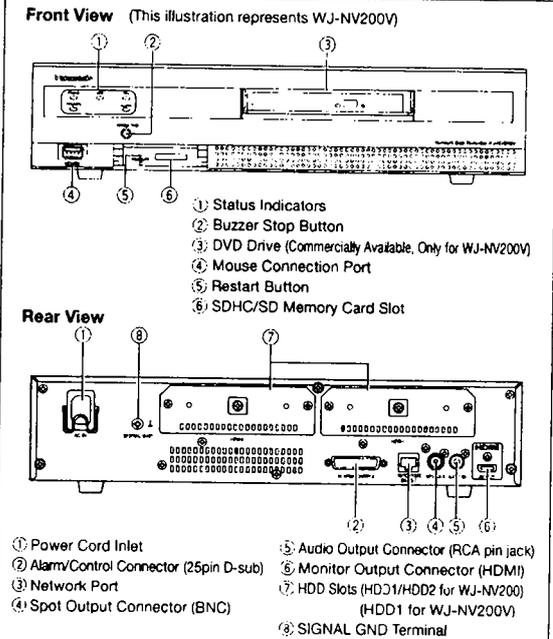
| TV System                 |                                      | NTSC   |
|---------------------------|--------------------------------------|--|
| Supported Cameras         | Supported Cameras                    | Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera  |
|                           | Supported Image Format               | H.264, MPEG-4, MJPEG   |
|                           | Supported Image Resolution           | Aspect ratio [4:3]: SXVGA (1,280 x 960), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240)<br>Aspect ratio [16:9]: 1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180* Depending on the camera   |
|                           | Supported Audio Format               | G.726 (ADPCM) 32 kbps  |
| Recording                 | Maximum Number of Cameras            | 16   |
|                           | Recording Mode                       | Event, Schedule  |
|                           | Pre-alarm Recording                  | Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution)   |
|                           | Scheduled Recording Mode             | 2 programs, 3 time zones/day, independent setup for each day of the week   |
| Main Unit Functions       | Frame Rate/Camera                    | Up to 30 fps (Depending on the Camera)   |
|                           | Camera Control                       | Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus   |
|                           | Multiscreen Mode                     | 4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen   |
|                           | Playback Control                     | PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)   |
|                           | Search Mode                          | Search criteria: Time date, Playback by designating a timeline, VMD  |
|                           | Copy                                 | Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.   |
|                           | Camera Title                         | Up to 14 characters  |
|                           | Clock Display                        | Time: 12H/24H, Date: 5 formats   |
|                           | Digital Zoom                         | Live: 2x, 4x, 8x (only for 1-screen or 4-screen) Play: 2x, 4x, 8x  |
|                           | System Log                           | Operator access (100), Network error (100), Error (1,000), Event (750)   |
| Browser GUI               | System Setup                         | Setup page in English, French, Italian, Spanish, German, Russian, Japanese   |
|                           | Camera Control                       | Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset  |
|                           | Playback Control                     | REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)  |
|                           | Search Mode                          | Search criteria: Time date, Event type, VMD, Camera number   |
|                           | Display Mode                         | 1 / 4 screen   |
|                           | Image Download                       | Recorded data of selected camera and time range can be downloaded to a PC. Viewer software can be downloaded separately.   |
|                           | Copy                                 | Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.   |
|                           | Camera Title                         | Up to 14 characters  |
|                           | Clock Display                        | On the browser. Time: 12H/24H, Date: 5 formats   |
|                           | Digital Zoom                         | Live/Play: 2x, 4x (only for 1-screen)  |
| Alarm/Event               | System Log                           | Operator access (100), Network error (100), Error (1,000), Event (750)   |
|                           | GUI Language                         | English, French, Italian, Spanish, German, Russian, Japanese   |
|                           | Supported OS and Browser Combination | Microsoft® Windows® 7 Professional 64 bit/32 bit & Windows® Internet Explorer® 8.0, Microsoft® Windows Vista® Business SP1 32 bit & Windows® Internet Explorer® 7.0<br>The language of OS must be the same as selected GUI language.   |
|                           | Required PC                          | MJPEG/ CPU: Intel® Core™ 2 Duo 2.66 GHz or faster, RAM: 1 GB or more, MPEG-4 VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later<br>H.264 CPU: Intel® Core™ i7-920 or faster, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later |
|                           | Alarm Source                         | 9x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol  |
|                           | Face Matching                        | Off / On   |
|                           | Event Mode                           | Off / On   |
|                           | Alarm Action                         | Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator   |
|                           | Alarm Control                        | Reset  |
|                           | Event Log                            | 750  |
| Input / Output            | Spot Output Connector                | 1x 1 V [p-p] / 75 Ω (BNC)  |
|                           | Monitor (HDMI) Connector             | 1x HDMI  |
|                           | Audio Output Connector               | 1x -10 dBV, 600 Ω, Unbalanced (RCA)  |
|                           | Alarm/Control Connector              | Alarm input 1 - 9 <sup>1</sup> , Alarm output <sup>2</sup> , Alarm reset input <sup>1</sup> , Face matching output <sup>2</sup>  |
|                           | Connector (25pin D-sub)              | Control Time adjustment input <sup>1</sup> , +5 V output <sup>1</sup>  |
|                           | Error/Warning                        | Network error output <sup>2</sup> , HDD error output <sup>2</sup> , Camera error output <sup>2</sup> , Recorder error output <sup>2</sup> , Recording error output <sup>2</sup>  |
|                           | Mouse Connection Port                | 1x   |
|                           | Network Port                         | 1x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)  |
|                           | SDHC/SD Memory Card Slot             | SDHC/SD memory cards applicable (miniSD cards and microSD cards not applicable)  |
|                           | Network                              | Maximum Bandwidth  |
| Supported Protocol        |                                      | TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, RTP   |
| E-mail                    |                                      | Upon Alarm or Warning  |
| No. of Simultaneous Users |                                      | 4 or less  |
| User Registration         |                                      | Up to 16 users   |
| User Level                |                                      | 3 Levels (Programmable)  |
| Partitioning              |                                      | User level - Camera (View & Control, No Access)  |
| Security Method           |                                      | User authentication (ID and Password), Alteration detection  |
| Time Synchronization      |                                      | Terminal (Slave), NTP (Server/Client)  |
| Other Functions           |                                      | Summer Time  |
|                           | HDD                                  | Type WJ-NV200: 8.89 cm (3.5 inch) Serial ATA HDD. Up to 2x HDDs can be installed.<br>WJ-NV200V: 8.89 cm (3.5 inch) Serial ATA HDD Up to 1x HDD can be installed.   |
| DVD WJ-NV200V only        | Supported DVD disk type              | DVD-R, +R (Not supported: DVD-R DL, +R DL, DVD-R for authoring, 8 cm disks)  |
|                           | Viewer Software                      | Playback Control: Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image<br>Additional Functions: Alteration detection, Save as JPEG, Two times zoom, Print, Copy   |
| General Specifications    | Supported OS, Language               | Same as browser GUI, Language of the software will be English  |
|                           | Safety/EMC Standard                  | UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOG (ICES003 ClassA)   |
|                           | Power Source                         | 120 V AC, 60 Hz  |
|                           | Power Consumption                    | approx. 45 W   |

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 - Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.  
 - Axis is a registered trademark of Axis Communications AB.  
 - UniPhier is a registered trademark of Panasonic Corporation.  
 - "Super Dynamic", "SDI", "SDM", "SDS", "SDSLink", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.  
 - ONVIF and the ONVIF logo are trademarks of ONVIF Inc.  
**Important**  
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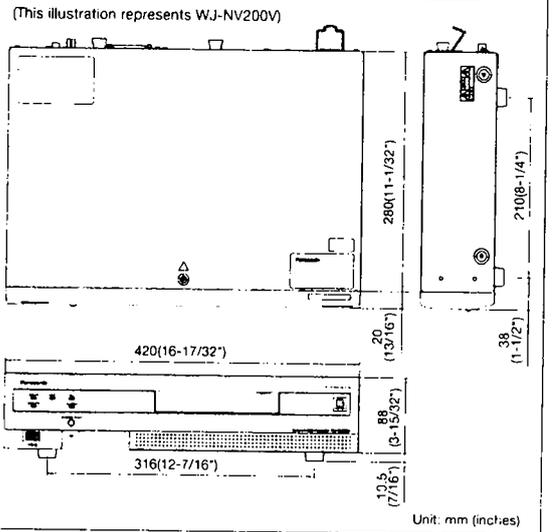
| TV System              |                               | NTSC   |
|------------------------|-------------------------------|--|
| General Specifications | Ambient Operating Temperature | Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F)<br>Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F)                                  |
|                        | Ambient Operating Humidity    | WJ-NV200 : 5 % ~ 90 % (without condensation)<br>WJ-NV200V : 10 % ~ 80 % (without condensation)                                   |
|                        | Maximum Operating Altitude    | 2,000 m (6,562 feet) above sea level   |
|                        | Dimensions                    | 420 mm (W) x 88 mm (H) x 300 mm (D)<br>(16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D))<br>(excluding rubber feet and projections) |
|                        | Mass (approx.)                | 4.8 kg (10.6 lbs.) without HDD<br>5.6 kg (12.36 lbs.) with 1 HDD<br>6.4 kg (14.13 lbs.) with 2 HDDs (WJ-NV200 only)              |
|                        |                               |  |

\*1: Non-voltage make contact input, 50 kΩ +5 V DC pull-up  
 \*2: Open collector output, 24 V DC, 100 mA max. \*3: 200 mA max.

## Part Names and Functions



## Appearance



- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- All product pictures are NTSC models.

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http://panasonic.net/security/  
 http://www.facebook.com/PanasonicNetworkCamera

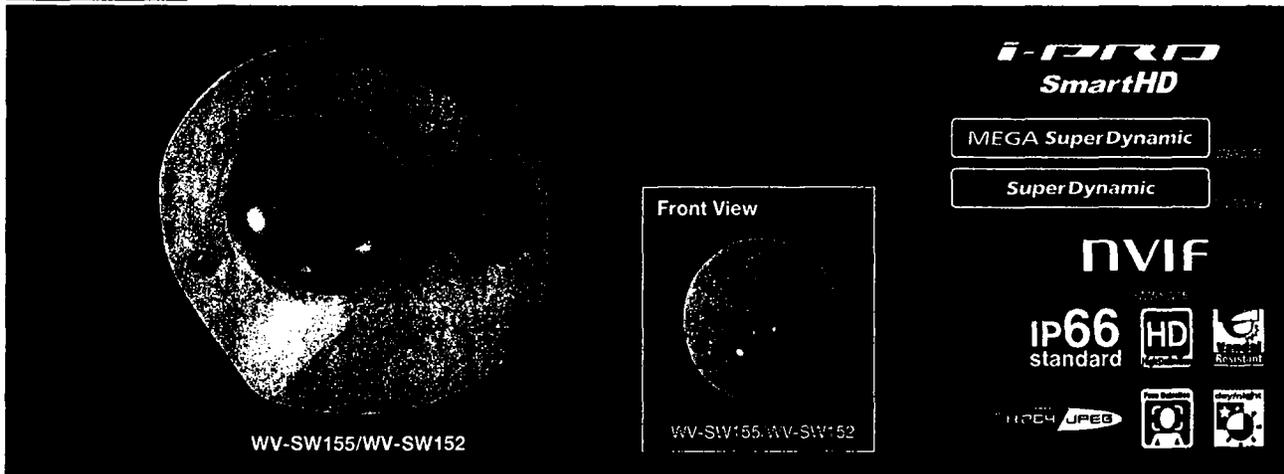
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Super Dynamic HD Vandal Resistant Dome Network Camera  
CITY OF BALTIMORE  
**WV-SW155 / WV-SW155M**  
Super Dynamic Vandal Resistant Dome Network Camera  
**WV-SW152 / WV-SW152M**

Preliminary



**HD / 1,280 x 960 H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SW155)**  
**SVGA / 800 x 600 H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SW152)**

**Key Features**

- 720p HD images up to 30 fps (WV-SW155)
- 1.3 Megapixel high sensitivity MOS Sensor
- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS Sensor (WV-SW152)
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size (WV-SW155)
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size (WV-SW152)
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- **Face Super Dynamic** Range technology ensures clear face image.
- High sensitivity with Day & Night (Electrical) function:
  - 0.8 lx (Color), 0.6 lx (B/W) at F2.2 (WV-SW155)
  - 0.6 lx (Color), 0.4 lx (B/W) at F2.2 (WV-SW152)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time)
  - Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
  - ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- 2x extra zoom under VGA resolution
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD works with the WJ-ND400 playback VMD function.

- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol output.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- Low profile design for discrete installation
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Vandal resistant mechanism for high reliability

**Standard Accessories**

- |  |                                    |
|--|------------------------------------|
| • Installation Guide ..... 1 pc.           | • Mount Bracket..... 1 pc.         |
| • Important Safety Instructions..... 1 pc. | • Tamperproof Screw Bit..... 1 pc. |
| • CD-ROM*1 ..... 1 pc.                     | • Waterproof Tape ..... 1 pc.      |
| • Code Label*2 ..... 1 pc.                 |                                    |
| • Lens adjuster..... 1 pc.                 |                                    |

The followings are for installation.

- Fixing Screws (M4 x 8 mm) ..... 3 pcs.
- Installation Template Label ..... 1 pc.

\*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.  
\*2 This label may be required for network management. The network administrator shall retain the code label.

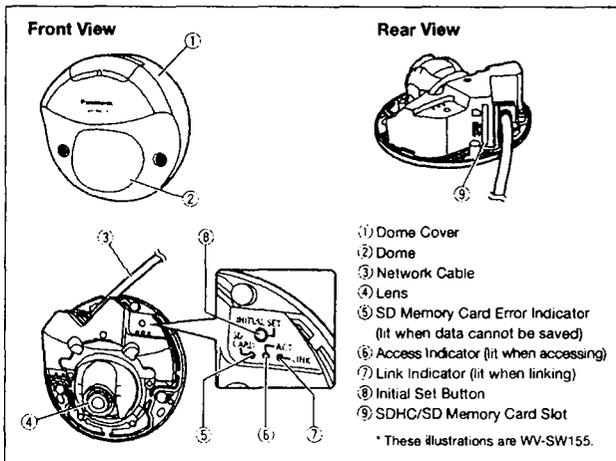
# Specifications

| TV System                | NTSC  | PAL |
|--------------------------|---|-----|
| <b>Camera</b>            |   |     |
| Image Sensor             | 1/3 type MOS image sensor   |     |
| Effective Pixels         | Approx. 1.3 megapixels  |     |
| Scanning Mode            | Progressive   |     |
| Scanning Area            | 4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))   |     |
| Minimum Illumination     | WV-SW155:<br>Color: 0.8 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On(High))<br>0.05 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On(High)) *1<br>BW: 0.8 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On(High))<br>0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On(High)) *1<br>WV-SW152:<br>Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On(High))<br>0.04 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On(High)) *1<br>BW: 0.4 lx (F2.2, Auto slow shutter: Off (1/30s), Gain: On(High))<br>0.03 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain: On(High)) *1  |     |
| White Balance            | AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)  |     |
| Light Control Mode       | Indoor scene (50 Hz / 60 Hz) / ELC  |     |
| ELC                      | With Super ELC (1/30 s)   |     |
| (Maximum Exposure Time)  | With Super Dynamic ON<br>ELC (1/30 s), ELC (2/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s), ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s), ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)  |     |
| Day & Night (Electrical) | OFF / AUTO  |     |
| Digital Noise Reduction  | HIGH / LOW  |     |
| Face Detection           | ON / OFF (with the XML notification setting)  |     |
| Super Dynamic            | ON / OFF  |     |
| Dynamic Range            | 52 dB typ. (Super Dynamic: ON, Light Control: ELC)  |     |
| Adaptive Black Stretch   | ON / OFF  |     |
| AGC                      | ON (HIGH) / ON (MID) / ON (LOW) / OFF   |     |
| Auto Slow Shutter        | OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 s   |     |
| Video Motion Detection   | ON / OFF, 4 areas available   |     |
| Privacy Zone             | ON / OFF (up to 2 zones available)  |     |
| VIQS                     | ON / OFF  |     |
| Camera Title             | Up to 20 characters (alphanumeric characters, marks), On/Off  |     |
| Focal Length             | 1.95 mm   |     |
| Zoom Ratio               | 1x / Extra zoom: 2x (under VGA resolution)  |     |
| Maximum Aperture Ratio   | 1 : 2.2   |     |
| Adjusting Angle          | Ceiling Installation: H: -20° to +20°, V: -20° to +90°<br>Wall Installation: H: -80° to +80°, V: -90° to +20°   |     |
| Angular Field of View    | Horizontal: 104°, Vertical: 85°   |     |
| <b>Browser GUI</b>       | Supported OS *2 *3<br>Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3  |     |
| Supported Browser        | Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3   |     |
| <b>Network</b>           | Network IF<br>WV-SW155 / WV-SW152: 10Base-T / 100Base-TX, RJ-45 connector (female)<br>WV-SW155M / WV-SW152M: 10Base-T / 100Base-TX, M-12 connector (male)   |     |
| Image Resolution         | Aspect ratio [4 : 3]<br>WV-SW155: H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps<br>JPEG (MJPEG): 1,280 x 960 / 640 x 480 / 320 x 240, up to 30 fps<br>WV-SW152: H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps<br>JPEG (MJPEG): 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps<br>Aspect ratio [16 : 9]<br>WV-SW155: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>WV-SW152: H.264: 640 x 360 / 320 x 180, up to 30 fps<br>JPEG (MJPEG): 640 x 360 / 320 x 180, up to 30 fps<br>Frame Rate<br>1/3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps   1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps<br>Bit Rate/Chert<br>Constant Bit Rate / Best effort: 64 kbps / 128 kbps / 256 kbps / 384 kbps / 512 kbps / 768 kbps / 1,024 kbps / 1,536 kbps / 2,048 kbps / 3,072 kbps / 4,096 kbps / 8,192 kbps (WV-SW155)<br>Image Quality<br>LOW / NORMAL / FINE<br>Transmission Type<br>UNICAST / MULTICAST<br>Image Quality<br>JPEG (MJPEG) *4<br>Transmission Type<br>PULL / PUSH<br>Transmission Interval<br>0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.)<br>Bandwidth Control<br>64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited<br>Supported Protocol<br>IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, SMTP, DNS, NTP, SNMP, DHCPv6<br>IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTSP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP<br>FTP Client<br>Alarm image transmission, FTP periodic transmission (when the FTP transmission is failed, backup on an optional SDHC/SD memory card is available)<br>Multi-Screen<br>Up to 16 camera images can be displayed simultaneously on a multi-screen. (Including the camera itself)<br>Maximum Concurrent Access Number<br>14 (Depends on network conditions)<br>SDHC/SD Memory Card (Option)<br>Manufactured by Panasonic<br>SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB<br>SD memory card: 256 MB, 512 MB, 1 GB, 2 GB (except miniSD card and microSD card) |     |

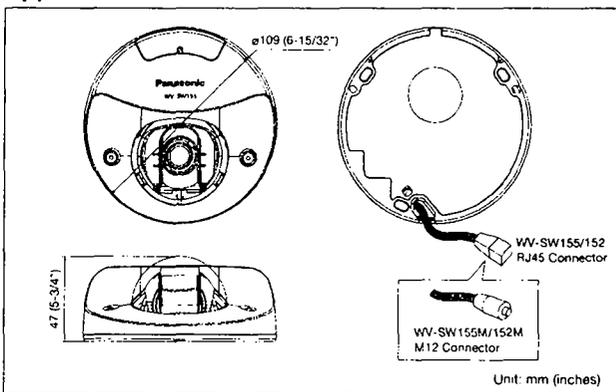
| TV System                              | NTSC  | PAL  |
|--|---|--|
| <b>Network</b>                         | JPEG Image  | JPEG Image   |
| Mobile terminal compatibility          | iPad, iPhone, iPod touch  |  |
| <b>Alarm</b>                           | VMD, Command alarm  | VMD, Command alarm   |
| Alarm Source                           | E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output |  |
| Alarm Actions                          | ON / OFF  |  |
| Alarm Log                              | ON / OFF  |  |
| Schedule                               | VMD   |  |
| <b>General</b>                         | PoE (IEEE802.3af compliant) / PoE 48 V: 56 mA (Class 1 device)                            | PoE (IEEE802.3af compliant) / PoE 48 V: 56 mA (Class 1 device) |
| Power Source/Consumption               | -30 °C ~ +50 °C (14 °F ~ 122 °F) /  |  |
| Ambient Operating Temperature/Humidity | Less than 90 % (no condensation)  |  |
| Temperature/Humidity                   | Camera: IP66 (IEC60529) *5  |  |
| Waterproof                             | Compliant with 50 J IEC60068-2-75   |  |
| Shock Resistance                       | e109 mm x 47 mm (H) (e6-15/32" x 5-3/4" (H))  |  |
| Dimensions                             | 350 g (0.77 lbs.)   |  |
| Mass (approx.)                         | Main body: Aluminum die cast, light gray, Dome section: Clear polycarbonate resin         |  |
| Finish                                 |   |  |

- \*1 Converted value
- \*2 Refer to "Notes on Windows Vista® / Windows® 7" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- \*3 When using IPv6 for communication, use Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- \*4 Transmission for 2 streams can be individually set in the same compression method.
- \*5 Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed.

## Part Names and Functions



## Appearance



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