Canon

Network Camera

Appendix – Specifications



VB-R13VE/VB-R13

VB-R12VE

VB-M50B

VB-H652LVE

VB-H651VE/VB-H651V

VB-H761LVE-H/VB-H761LVE

VB-H760VE

VB-H751LE-H/VB-H751LE



Specifications

Explanations that differ depending on the camera model are indicated by the camera name and the following symbols.

R13 VB-R13VE, VB-R13 R12 VB-R12VE M50 VB-M50B

H652 VB-H652LVE H651 VB-H651VE, VB-H651V H761 VB-H761LVE-H, VB-H761LVE H760 VB-H760VE H751 VB-H751LE-H, VB-H751LE

The cameras described in this manual may include models not available in your country and/or region.

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Camera

Image Sensor	1/3 type CMOS (primary color filter)
Number of Effective Pixels	R13 R12 H652 H651 H761 H760 H751 Approx. 2.1 million pixels M50 Approx. 1.3 million pixels
Scanning Method	Progressive
Lens	R13 R12 30x optical zoom (20x digital zoom) lens with auto focus M50 5x optical zoom (20x digital zoom) lens with auto focus H652 H651 H751 2.4x optical zoom (4x digital zoom) lens (electric drive) H761 H760 20x optical zoom (20x digital zoom) lens with auto focus
Focal Length 35mm Film Equivalent Focal Length (approx.) *2	R13 R12 4.4 (W) – 132 mm (T) *1 M50 17.7 (W) – 88.5 mm (T) H652 H651 H751 2.55 (W) – 6.12 mm (T) H761 H760 4.7 (W) – 94 mm (T) R13 R12 31.4 (W) – 942 mm (T) M50 126 (W) – 630 mm (T) H652 H651 H751 18.2 (W) – 43.7 mm (T) H761 H760 33.6 (W) – 672 mm (T)
F-number	R13 R12 F1.4 (W) – F4.6 (T) M50 F1.8 (W) – F2.4 (T) H652 H651 H751 F1.2 (W) – F1.8 (T) H761 H760 F1.6 (W) – F3.5 (T)

Viewing Angle	
For 16:9 aspect ratios	R13 R12
To the aspect and	Horizontal: 62.6° (W) – 2.2° (T)
	Vertical: 36.9° (W) – 1.3° (T)
	M50
	Horizontal: 15.6° (W) – 3.2° (T)
	Vertical: 8.8° (W) – 1.8° (T) H652
	Horizontal: 122.1° (W) – 50.1° (T)
	Vertical: 65.9° (W) – 28.1° (T)
	H651
	Horizontal: 122.1° (W) – 50.1° (T)
	Vertical: 65.8° (W) – 28.2° (T)
	Horizontal: 60.4° (W) – 3.2° (T)
	Vertical: 35.1° (W) – 1.8° (T)
	H751
	Horizontal: 124.3° (W) – 50.5° (T)
	Vertical: 66.9° (W) – 28.4° (T)
For 4:3 aspect ratios	R13 R12
	Horizontal: 48.5° (W) – 1.7° (T) Vertical: 36.9° (W) – 1.3° (T)
	M50
	Horizontal: 15.6° (W) – 3.2° (T)
	Vertical: 11.7° (W) – 2.4° (T)
	H652
	Horizontal: 89.2° (W) – 37.5° (T) Vertical: 65.9° (W) – 28.1° (T)
	H651
	Horizontal: 89.2° (W) – 37.6° (T)
	Vertical: 65.8° (W) – 28.2° (T)
	H761 H760
	Horizontal: 46.3° (W) – 2.4° (T) Vertical: 35.1° (W) – 1.8° (T)
	H751
	Horizontal: 90.6° (W) – 37.9° (T)
	Vertical: 66.9° (W) – 28.4° (T)
Day/Night Switch	Auto/Day Mode/Night Mode
Min. Subject Illumination	
Day Mode (color)	R13 R12 0.05 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	When using the Dome Unit (Smoked) (sold separately):
	0.1 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	M50
	0.04 lux (F1.8, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	H652 0.035 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	When using the Dome Unit (Smoked) (sold separately):
	0.07 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	H651
	0.035 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately):
	0.07 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	H761
	0.06 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	H760 0.06 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
	H751
	0.035 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)

(monochrome) 0.002 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately); 0.004 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.8, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.003 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.004 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.004 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.005 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.006 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.007 lux (Night Mode	R13 R12
0.004 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1059 0.002 lux (F1.8, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1059 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1069 1070 1080 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1080 1080 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1080 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1080 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1080 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1090 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off,	_	0.002 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
Ollux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately): 0.004 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.533		0.004 lux (F1.4, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately): 0.004 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately): 0.004 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately): 0.004 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1760 0.003 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.004 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1770 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control i		
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0.004 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.551 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) When using the Dome Unit (Smoked) (sold separately): 0.004 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.04 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.03 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1.563 1.		0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
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1756 Olux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.04 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1760 O.03 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1760 O.03 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 1761 Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE Olux (F1.2, shutte		0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
on) 0.04 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 11763 0.003 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 11751 0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Focus Auto/One-shot AF/Manual/Fixed at infinity Shooting Distance (from front of lens) 113 112		
1.763 0.003 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.003 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)		
F751 Olux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) 0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)		
O Lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light on) O.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)		0.003 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE) Focus		0 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE with IR light
Shooting Distance (from front of lens) Pay Mode: 0.3 m (12 in.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) Night Mode: 3.0 m (9.8 ft.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T) MSO Day Mode/Night Mode: 0.3 m (12 in.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T) H761 H760 Day Mode: 0.3 m (12 in.) – infinity (W), 1.0 m (3.3 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 1.5 m (4.9 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 1.5 m (4.9 ft.) – infinity (T) Shutter Speed 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000, 1/10000 sec. Exposure Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain) White Balance Auto/Manual Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Center-Weighted/Average/Spot Exposure Compensation Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction)		0.002 lux (F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)
(from front of lens) Day Mode: 0.3 m (12 in.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) 1552 1451 14751 Day Mode/Night Mode: 0.3 m (12 in.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T) Hospital H760 Day Mode: 0.3 m (12 in.) – infinity (W), 1.0 m (3.3 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 1.5 m (4.9 ft.) – infinity (T) Shutter Speed 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/4000, 1/8000, 1/10000, 1/16000 sec. Exposure Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain) White Balance Auto/Manual Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Center-Weighted/Average/Spot Exposure Compensation Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer Available Available Available	Focus	Auto/One-shot AF/Manual/Fixed at infinity
Day Mode/Night Mode: 0.3 m (12 in.) – infinity H761 H760 Day Mode: 0.3 m (12 in.) – infinity (W), 1.0 m (3.3 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 1.5 m (4.9 ft.) – infinity (T) Shutter Speed 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/4000, 1/4000, 1/8000, 1/10000, sec. Exposure Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain) White Balance Auto/Manual Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Center-Weighted/Average/Spot Exposure Compensation Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction)		Day Mode: 0.3 m (12 in.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) Night Mode: 1.0 m (3.3 ft.) – infinity (W), 2.0 m (6.6 ft.) – infinity (T) M50 Day Mode/Night Mode: 3.0 m (9.8 ft.) – infinity (W), 5.0 m (16.4 ft.) – infinity (T)
Shutter Speed 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000, 1/16000 sec. Exposure Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Auto (Aperture-priority AE)/Manual (Shutter Speed, Aperture, Gain) White Balance Auto/Manual Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Center-Weighted/Average/Spot Exposure Compensation 9 levels Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction)		Day Mode/Night Mode: 0.3 m (12 in.) – infinity H761 H760 Day Mode: 0.3 m (12 in.) – infinity (W), 1.0 m (3.3 ft.) – infinity (T)
1/4000, 1/8000, 1/10000, 1/16000 sec.		
(Shutter Speed, Aperture, Gain) White Balance Auto/Manual Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Exposure Compensation Smart Shade Control Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit G levels Image Stabilizer 2 levels (digital) Available Available Available	Shutter Speed	1/4000, 1/8000, 1/10000, 1/16000 sec.
Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp Manual: One-shot WB/R Gain/B Gain Metering Mode Center-Weighted/Average/Spot Exposure Compensation 9 levels Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Available	Exposure	
Exposure Compensation Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Agc Limit 6 levels Available	White Balance	Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp
Smart Shade Control *3 Auto/Manual/Disable Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Auto/Manual/Disable Auto: 3 levels Auto: 3 levels Auto: 3 levels Auto: 3 levels Auto: 4 levels Auto: 5 levels Auto: 6 le	Metering Mode	Center-Weighted/Average/Spot
Auto: 3 levels Manual: 7 levels Haze Compensation Auto/Manual/Disable Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Auto/Manual/Disable Auto: 3 levels Auto: 4 levels Auto: 4 levels Auto: 5 levels Auto: 6 levels Auto: 6 levels Auto: 6 levels Available		
Auto: 3 levels Manual: 7 levels AGC Limit 6 levels Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Auto: 3 levels Manual: 7 levels 6 levels Available	Smart Shade Control *3	Auto: 3 levels
Image Stabilizer 2 levels (digital) Motion-Adaptive NR (Noise Reduction) Available	Haze Compensation	Auto: 3 levels
Motion-Adaptive NR (Noise Reduction) Available	AGC Limit	6 levels
(Noise Reduction)	Image Stabilizer	2 levels (digital)
Clear IR Mode M50 H761 Available		Available
	Clear IR Mode	M50 H761 Available

15.11. 1. 1. 5	20 (07.0 ())
IR Illumination Range	H652 20 m (65.6 ft.)
	H761 (T)
	60 m (196.9 ft.) (When using 24 V AC, PoE+)
	30 m (98.4 ft.) (When using 12 V DC, PoE)
	H751 (T)
	30 m (98.4 ft.) (When using 24 V AC, PoE+)
	20 m (65.6 ft.) (When using 12 V DC, PoE)
Pan Angle Range	R13 R12 360° continuous panning
3 - 3 3	M50 348° (±174°)
	H652 360° (±180°)
	H651 350° (±175°)
	H761 H760 348° (±174°)
	H751 344° (-217° – +127°)
Tilt Angle Range	R13 R12 180° (ceiling-mounted position: 0° – 180°) *4 *5
	M50 105° (ceiling-mounted position: -90° – +15°) *4
	$ H652 90^{\circ} (-15^{\circ} - +75^{\circ})^{*6} $
	H651 150° (±75°)
	H761 H760 90° * ⁷
	H751 93° (-3° – +90°) * ⁷
Rotation Angle Range	H652 350° (+220°/-130°)
	+: Clockwise
	H651 350° (±175°)
	H761 H760 360° (±180°)
	H751 344° (±172°)
Moving Speed	R13 R12
	Pan: Max. 450°/sec.
	Tilt: Max. 450°/sec.
	M50
	Pan: Max. 300°/sec.
	Tilt: Max. 300°/sec.
	H651
	(When using the camera angle in the Setting Page)
	Pan: 20.1°/sec.
	Tilt: 20.7°/sec.
	Rotation: 40.0°/sec.

- *1 (W): maximum wide angle, (T): maximum telephoto
- *2 35mm equivalent focal length is derived by using the proportional calculation based on the diameter of the image circle. As a result, actual viewing angle may differ from the imagined angle of a 35mm equivalent focal length, depending on the properties of the lens.
- *3 Brightens shaded areas of a video
- *4 When the horizontal direction of the camera is 0°
- *5 When the tilt angle is between angles below, the dome cover can cause a line to appear in the video, as well as a decline in the video quality

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0° - 12° (168° - 180°) (W)
0° - 5° (175° - 180°) (T)
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- *6 Camera is at 0° when attached to the ceiling and facing straight down
- *7 Camera is at 0° when attached to the ceiling and facing straight down, and 90° when at a horizontal position

Server

Video Compression Method	JPEG, H.264
Video Size	R13 R12 H651 H761 H760 H751 JPEG, H.264: 1920 x 1080, 960 x 540, 480 x 270 1280 x 720, 640 x 360, 320 x 180 1280 x 960, 640 x 480, 320 x 240 M50 JPEG, H.264: 1280 x 720, 640 x 360, 320 x 180 1280 x 960, 640 x 480, 320 x 240
Video Quality	JPEG, H.264: 10 levels

Frame Rate *8	JPEG: 0.1 – 30 fps H.264: 1/2/3/5/6/10/15/30 fps Maximum frame rate when used in the following combinations: R13 R12 H652 H651 H761 H760 H751 When streaming H.264(1) (1920 x 1080) and H.264(2) (all sizes) simultaneously: 15 fps When streaming H.264(1) (all sizes) and H.264(2) (1920 x 1080) simultaneously: 15 fps When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps M50 When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps
I-Frame Interval	0.5/1/1.5/2/3/4/5 sec.
Simultaneous Client Access	Max. 30 Clients + 1 Admin Client H.264: Max. 10 clients
Bit Rate Control	Target Bit Rate: 64/128/256/384/512/768/1024/1536/2048/3072/4096/6144/8192/10240/12288/14336/ 16384 kbps
ADSR *9	Number of Specified Areas: Max. 8 areas Data Size Reduction Level: 3 levels
Security	Camera Control: Administrator, Authorized user, Guest user (level of control varies depending on user) Access Control: User authority (user name and password), Host Access Restrictions (IPv4, IPv6) IEEE802.1X: EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAP Encrypted Communications: SSL/TLS, IPsec
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, FTP, SNMPv1/v2c/v3 (MIB2), DHCP, DNS, AutoIP, mDNS, ARP, ICMP, POP3, NTP, SMTP, RTP/RTCP, RTSP, SSL/TLS, IPsec, ONVIF, WV-HTTP (Canon proprietary)
Audio Compression Method	R13 M50 H652 H651 H761 H751 G.711 μ-law (64 kbps)
Audio Communication Method	R13 M50 H652 H651 H761 H751 Full-duplex (two-way)/half-duplex – Echo cancellation function compliant RTP, Sound Transfer Protocol by Canon
Audio File Playback	R13 M50 H652 H651 H761 H751 Available (audio files can be played back when an event is triggered by the intelligent function or external device input) A third-party amplifier speaker is necessary.
Analog video output (NTSC)	(H652) Available (Only for checking the camera angle)
Privacy Mask	Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors)
Panorama	R13 R12 M50 Available
View Restriction	R13 R12 M50 H761 H760 Available
Preset	Number of registers: Max. 256 positions (+Home Position) Number of Preset Tour Route: Max. 5 M50 Number of registers: Max. 64 positions (+Home Position) Number of Preset Tour Route: Max. 5 H652 H651 H751 Number of registers: Max. 20 positions (+Home Position) Number of Preset Tour Route: Max. 1 H761 H760 Number of registers: Max. 20 positions (+Home Position) Number of Preset Tour Route: Max. 5

Intelligent Function (Video)	Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, and Intrusion Detection Detection Settings: Max. 15 Non-detection Area Settings: Available R13 R12 Auto Tracking
Intelligent Function (Audio)	R13 M50 H652 H651 H761 H751 Volume Detection, Scream Detection
Event Trigger Type	R13 M50 H651 H761 H751 External Device Input, Intelligent Function (Video), Intelligent Function (Audio), Timer, Day/Night Mode Switching Number of Linked Events: 2 Linked Event Conditions: OR, AND (whether or not there is a sequence to events) R12 H760 Intelligent Function (Video), Timer, Day/Night Mode Switching
Image Upload	FTP/HTTP/SMTP (e-mail)
Event Notification	HTTP/SMTP (e-mail)
Log Notification	SMTP (e-mail)
Image Cropping Function	M50 H652 H651 H761 H760 H751 Digital PTZ Cropping sizes: 640 x 360/512 x 288/384 x 216/256 x 144/128 x 72 640 x 480/512 x 384/384 x 288/256 x 192/128 x 96
Enhanced Digital Zoom	R13 R12 M50 H761 H760 Available
Maximum Digital Zoom Magnification Selection	R13 R12 M50 H761 H760 5x/10x/15x/20x
On-Screen Display	Available German/English/Spanish/French/Italian/Polish/Russian/Turkish/Korean/ Chinese (Simplified)/Japanese
Daylight Saving Time	Available
Language	German/English/Spanish/French/Italian/Polish/Russian/Turkish/Thai/Korean/Chinese (Simplified)/Japanese

^{*8} Values represent streaming performance from the camera. The frame rate may be reduced due to Viewer computer's specs, the number of clients accessing at the same time, network loads, video quality setting, type or movement of the subject or other reasons.

Interface

Network Terminal	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex))
Audio Input Terminal (common for LINE IN & MIC IN)	R13 M50 H652 H651 H761 H751 \$\phi 3.5 \text{ mm (\$\phi 0.14 in.) mini-jack connector (monaural)} \text{LINE IN (connect to an amplifier microphone) or MIC IN (connect to a microphone w/o amplifier)} \text{Switch LINE IN/MIC IN in the Setting Page.}
Audio Output Terminal (LINE OUT)	R13 M50 H652 H651 H761 H751 \$\phi 3.5 \text{ mm (\$\phi 0.14 in.) mini-jack connector (monaural)} \text{LINE OUT (connect to an amplifier speaker)}
External Device I/O Terminal	R13 M50 H651 H761 H751 Input x 2, Output x 2 H652 Input x 2, Output x 2 Analog Video Output x 1

^{*9} Area-specific Data Size Reduction

Memory Card *10	Recorded Content: Log, Video (Event, Manual, ONVIF, Timer, Upload)
	Frame Rate: Max. 1 fps (JPEG)
	Max. 30 fps (H.264)
	R13 R12 M50 H761 H760 H751
	SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible.
	[H652] H651]
	microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card
	Compatible.

^{*10} To insure reliability in the recording speed, it is recommended to use CLASS 10 rated products. Even when using CLASS 10 products, reliability cannot be guaranteed during heavy access loads (e.g., when recording and deleting data at the same time).

Other

Operating Environment	
Operating Environment Temperature:	R13 (VB-R13VE only) R12 Operating Temperature Range (including direct sun exposure) AC: $-50^{\circ}\text{C} - +55^{\circ}\text{C}$ ($-58^{\circ}\text{F} - +131^{\circ}\text{F}$) PoE+: $-35^{\circ}\text{C} - +55^{\circ}\text{C}$ ($-31^{\circ}\text{F} - +131^{\circ}\text{F}$) DC, PoE: $-10^{\circ}\text{C} - +55^{\circ}\text{C}$ ($+14^{\circ}\text{F} - +131^{\circ}\text{F}$) Start-up Temperature Range (including direct sun exposure) AC, PoE+: $-30^{\circ}\text{C} - +55^{\circ}\text{C}$ ($-22^{\circ}\text{F} - +131^{\circ}\text{F}$) DC, PoE: $-10^{\circ}\text{C} - +55^{\circ}\text{C}$ ($+14^{\circ}\text{F} - +131^{\circ}\text{F}$) R13 (VB-R13 only) M50 H651 (VB-H651V only) AC, DC, PoE: $-10^{\circ}\text{C} - +50^{\circ}\text{C}$ ($+14^{\circ}\text{F} - +122^{\circ}\text{F}$) H651 (VB-H651VE only) *11 When the heater unit (sold separately) is installed Operating Temperature Range: AC: $-40^{\circ}\text{C} - +55^{\circ}\text{C}$ ($-40^{\circ}\text{F} - +131^{\circ}\text{F}$) Start-up Temperature Range: AC: $-30^{\circ}\text{C} - +55^{\circ}\text{C}$ ($-22^{\circ}\text{F} - +131^{\circ}\text{F}$)
	When the heater unit (sold separately) is not installed AC, DC, PoE: -10°C - +55°C (+14°F - +131°F) H652 *11 When the heater unit (sold separately) is installed Operating Temperature Range: AC, PoE+: -40°C - +55°C (-40°F - +131°F) Start-up Temperature Range: AC, PoE+: -30°C - +55°C (-22°F - +131°F)
	When the heater unit (sold separately) is not installed AC, DC, PoE+, PoE: -10°C - +55°C (+14°F - +131°F) H761 H751 Operating Temperature Range (including direct sun exposure) AC, PoE+: -50°C - +55°C (-58°F - +131°F) DC, PoE: -10°C - +55°C (+14°F - +131°F) Start-up Temperature Range (including direct sun exposure) AC, PoE+: -30°C - +55°C (-22°F - +131°F) DC, PoE: -10°C - +55°C (+14°F - +131°F) H760 Operating Temperature Range (including direct sun exposure) PoE: -10°C - +55°C (+14°F - +131°F) Start-up Temperature Range (including direct sun exposure) PoE: -10°C - +55°C (+14°F - +131°F)
Humidity:	5% - 85% (without condensation)
Storage Environment Temperature: Humidity:	-30°C - +60°C (-22°F - +140°F) 5% - 90% (without condensation)

Installation Method R13 (VB-R13VE only) R12 Ceiling mount/Surface mount Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than ±5° from horizontal, because this will put a heavy load onto sliding mechanical parts and may affect durability. R13 (VB-R13 only) Ceiling mount Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than ±5° from horizontal or on walls, because this will put a heavy load onto sliding mechanical parts and may affect durability. M50 Ceiling mount/Desktop Canon will not guarantee proper operation if the cameras are installed on surfaces where the angle is more than ±5° from horizontal or on walls, because this will put a heavy load onto sliding mechanical parts and may affect durability. H652 H651 H761 H760 H751 Ceiling mount/Surface mount R13 R12 M50 H652 H651 H761 H751 Power Supply AC Adapter: PA-V18 (100 - 240 V AC) (sold separately) External power source: 24 V AC/12 V DC R13 (VB-R13VE only) R12 H652 H761 H751 PoE: PoE power supply via LAN connector (IEEE802.3at Type1/Type2 compliant) R13 (VB-R13 only) M50 H651 H760 PoE: PoE power supply via LAN connector (IEEE802.3at Type1 compliant) R13 (VB-R13VE only) R12 **Power Consumption** PoE+: Max. approx. 22.4 W *12 PoE: Max. approx. 11.3 W *13 AC Adapter PA-V18: Max. approx. 13.8 W (100 V AC) Max. approx. 13.8 W (240 V AC) DC: Max. approx. 12.3 W AC: Max. approx. 34.8 W R13 (VB-R13 only) Max. approx. 10.7 W *13 PoE: AC Adapter PA-V18: Max. approx. 11.3 W (100 V AC) Max. approx. 11.1 W (240 V AC) DC: Max. approx. 9.7 W AC: Max. approx. 10.2 W M50 Max. approx. 9.8 W *13 PoE: AC Adapter PA-V18: Max. approx. 11.2 W (100 V AC) Max. approx. 11.2 W (240 V AC) DC: Max. approx. 10 W AC: Max. approx. 9.6 W H652 PoE+: Max. approx. 12.4 W *12 Max. approx. 23.1 W *12 *14 Max. approx. 12.4 W *13 PoE: AC Adapter PA-V18: Max. approx. 15.2 W (100 V AC) Max. approx. 15.2 W (240 V AC) DC: Max. approx. 13.8 W AC: Max. approx. 12.7 W Max. approx. 24.1 W *14

H651 (VB-H651VE only) Max. approx. 8.9 W *13 PoE: AC Adapter PA-V18: Max. approx. 10.2 W (100 V AC) Max. approx. 10.4 W (240 V AC) DC: Max. approx. 9.3 W AC: Max. approx. 8.7 W Max. approx. 21.7 W *14 H651 (VB-H651V only) Max. approx. 8.4 W *13 PoE: AC Adapter PA-V18: Max. approx. 9.9 W (100 V AC) Max. approx. 9.8 W (240 V AC) DC: Max. approx. 8.7 W AC: Max. approx. 8.1 W H761 PoE+: Max. approx. 19.6 W *12 PoE: Max. approx. 10.4 W *13 AC Adapter PA-V18: Max. approx. 12.7 W (100 V AC) Max. approx. 12.9 W (240 V AC) DC: Max. approx. 11.0 W AC: Max. approx. 20.0 W H760 Max. approx. 7.4 W *13 PoE: H751 PoE+: Max. approx. 20.1 W *12 PoE: Max. approx. 10.2 W *13 AC Adapter PA-V18: Max. approx. 12.5 W (100 V AC) Max. approx. 12.6 W (240 V AC) DC: Max. approx. 11.2 W AC: Max. approx. 20.9 W **Dimensions** VB-R13VE: (φ x H) φ229 x 324 mm (φ9.02 x 12.76 in.) (Camera only) VB-R13: (φ x H) φ199 x 199 mm (φ7.83 x 7.83 in.) (Camera only. Excluding ceiling plate) (φ x H) φ229 x 324 mm (φ9.02 x 12.76 in.) (Camera only. Excluding connector height) M50 (φ x H) φ129 x 157 mm (φ5.08 x 6.18 in.) (Camera only) $(\phi \times H) \phi 180 \times 145 \text{ mm} (\phi 7.09 \times 5.71 \text{ in.})$ (Camera only. Excluding ceiling plate) VB-H651VE: (φ x H) φ180 x 135 mm (φ7.09 x 5.31 in.) (Camera only. Excluding ceiling plate) VB-H651V: (φ x H) φ150 x 129 mm (φ5.91 x 5.08 in.) (Camera only. Excluding ceiling plate) H761 H760 (H x W x D) 111 x 102 x 252 mm (4.37 x 4.02 x 9.92 in.) (Camera body only) Length when joint fully extended (D): 455 mm (17.91 in.) (H x W x D) 111 x 102 x 214 mm (4.37 x 4.02 x 8.43 in.) (Camera body only) Length when joint fully extended (D): 402 mm (15.83 in.)

Weight	VB-R13VE: Approx. 3530 g (7.79 lb.) VB-R13: Approx. 1990 g (4.39 lb.) R12 Approx. 3420 g (7.54 lb.) M50 Approx. 1170 g (2.58 lb.) H652 Approx. 1850 g (4.08 lb.) H651 VB-H651VE: Approx. 1710 g (3.77 lb.) VB-H651V: Approx. 890 g (1.97 lb.) H761 Approx. 3420 g (7.54 lb.) H760 Approx. 3360 g (7.41 lb.) H751 Approx. 2550 g (5.63 lb.)
Impact Resistance	R13 (VB-R13VE only) R12 H652 H651 IK10 (20J) H761 H760 IK09 (10J)
Dust-resistant/Waterproof Specification	R13 (VB-R13VE only) R12 H652 H651 (VB-H651VE only) H761 H760 H751 IP66

^{*11} Sunshade cover (sold separately) necessary when under direct sun exposure

^{*12} Class 4 power sourcing equipment (requests 30.0 W)

^{*13} Class 0 power sourcing equipment (requests 15.4 W)

^{*14} When the heater unit (sold separately) is installed