



# WG-90

- Included items
- Rechargeable lithium-ion battery D-LI92
  - USB Power Adapter
  - Power Plug
  - USB Cable
  - Strap
  - Macro Stand

## Specifications

<b>Lens</b>		PENTAX lens, 11 elements in 9 groups (5 aspherical elements)
	<b>Focal Length</b>	5 - 25 mm
	<b>(in 35mm format equivalent)</b>	Approx. 28 - 140mm
	<b>Maximum Aperture</b>	F3.5(W) - F5.5(T)
<b>Zoom</b>	<b>Optical Zoom</b>	5X
	<b>Digital Zoom</b>	approx. 7.2X
	<b>Intelligent Zoom</b>	approx. 7.5X at 7M, approx. 36X at 640 (including optical zoom)
<b>Motion Blur Reduction</b>	<b>Still</b>	Pixel Track SR Hi-sensitivity anti-shake mode (Digital SR)
	<b>Movie</b>	Movie shake reduction mode (Movie SR)
<b>Focus</b>	<b>Type</b>	9-point AF, Spot AF, Auto tracking AF
	<b>Focus Range (From lens face)</b>	Standard: 0.5m - infinity / 1.64ft. - infinity (entire zoom range) Macro: 0.1 - 0.6m / 0.33 - 1.97ft. (entire zoom range)

		1cm Macro:0.01 - 0.3m / 0.03 - 0.98ft. (middle zoom position) Infinity-landscape, Pan Focus, Manual Focus: available
<b>Number of Effective pixels</b>		Approx. 16 megapixels
<b>Image Sensor</b>		1/2.3" CMOS
<b>Image Tone</b>		Bright, Natural, Vibrant, Slide Film, Monochrome, Cross Processing
<b>Number of Recorded pixels</b>	<b>Still</b>	16M, 12M(1:1), 12M(16:9), 7M, 5M(16:9), 5M, 4M(16:9), 3M, 2M(16:9), 1024, 640
	<b>Movie</b>	1920, 1280
<b>Sensitivity (Standard Output Sensitivity)</b>		AUTO, Manual (ISO 125 - 6400)
<b>White Balance</b>		Auto, Daylight, Shade, Tungsten light, Fluorescent light(D:Daylight Color, N:Daylight White, W:White Light), Manual
<b>Display</b>		2.7" Wide LCD, approx. 230K dots, AR Coating(Cover only)
<b>Exposure Control</b>	<b>Metering System</b>	Multi-segment metering, Center-weighted metering, Spot metering
	<b>Exposure Compensation</b>	± 2EV ( 1/3EV steps)
<b>Scene modes</b>		Auto Picture, Program, HDR, Handheld Night Snap, Movie, High Speed Movie, Digital Microscope, Landscape, Flower, Portrait, Underwater, Underwater Movie, Interval Shot, Interval Movie, Surf & Snow, Kids, Pet, Sport, Night Scene, Night Scene Portrait, Fireworks, Food, Digital SR, Report, Green
<b>Face detection</b>		Face Detection AF&AE is available for all modes up to 32 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection
<b>Pet detection</b>		Detect up to 1 pet's face(auto)
<b>Playback modes</b>		Slideshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Collage, Digital Filter(B&W / Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature), HDR Filter, Original Frame, Movie Edit, Red-eye Edit, Resize, Cropping, Image Copy, Protect, Start-up Screen
<b>Shutter Speed</b>		1/4000 - 1/4sec.(Mechanical and electronic shutter), 4sec at most. (Night Scene mode setting)
<b>Built-in flash</b>	<b>Modes</b>	Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge. Macro Light mode

	<b>Flash Range (Except Macro Light Mode)</b>	Wide:approx. 0.2 - 5.5m / 0.66 - 18 ft. (ISO Auto) Tele:approx. 0.2 - 3.5m / 0.66 - 11 ft. (ISO Auto)
<b>Drive Modes</b>		Standard, Self-timer, Continuous Shooting, Burst Shooting, Remote Control, Auto Bracketing
<b>Storage Media</b>		Built-in Memory (approx. 68MB), SD/SDHC/SDXC Memory Card
<b>Power Source</b>		Rechargeable D-LI92 lithium-ion battery
	<b>Battery life</b>	Still*: approx. 300 shots (Rechargeable Lithium-ion battery) Playback**: approx. 260 min. (Rechargeable Lithium-ion battery)
<b>Interfaces</b>		USB2.0(Micro-B), HDMI output terminal(Type D)
<b>Water proof / Dustproof</b>		Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities
<b>Dimensions</b>		Approx. 122.5 (W) x 61.5 (H) x 29.5 (D)mm /4.8 (W) x 2.4 (H) x 1.2 (D) inches (excluding operating and protruding parts)
<b>Weight</b>	<b>With battery &amp; SD card</b>	Approx. 194g / 6.8 oz.(including battery and SD memory card)
	<b>Body</b>	Approx. 173g / 6.1 oz.(without battery and SD memory card)

\* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary depending on operating conditions.

\*\* According to the result of RICOH IMAGING in-house testing.

## PENTAX WG-90

### ●Still image

Still image	16M (4608×3456)			12M [1:1] (3456×3456) 12M [16:9] (4608×2592)			7M (3072×2304)			5M [16:9] (3072×1728) 5M (2592×1944)			4M [16:9] (2592×1464)		
	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
Built-in Memory	13	23	38	15	30	46	23	43	69	27	53	76	36	69	99
1GB	182	321	535	214	419	643	321	598	959	385	737	1060	508	959	1374
2GB	370	653	1078	435	853	1307	653	1205	1921	778	1499	2119	1024	1921	2794

4GB	727	1284	2117	856	1676	2568	1284	2366	3771	1527	2943	4162	2011	3771	5486			
6GB	1105	1952	3219	1301	2548	3904	1952	3598	5734	2323	4476	6328	3058	5734	8341			
8GB	1479	2613	4309	1742	3411	5226	2613	4816	7675	3109	5990	8470	4093	7675	11165			
12GB	2231	3941	6499	2627	5145	7882	3941	7264	11577	4689	9036	12775	6174	11577	16840			
16GB	2977	5257	8670	3505	6863	10515	5257	9690	15443	6255	12053	17041	8236	15443	22463			
32GB	5972	10546	17392	7030	13768	21092	10546	19438	30979	12548	24179	34184	16522	30979	45061			
48GB	8673	15178	24285	10119	20238	30357	15178	28021	45535	18214	33116	45535	24285	45535	60714			
64GB	11769	20597	32955	13731	27462	41194	20597	38025	61791	24716	44939	61791	32955	61791	82388			
128GB	23220	40636	65018	27090	54181	81272	40636	75020	121909	48763	88661	121909	65018	121909	162545			
256GB	46506	81386	122079	54257	108514	162772	81386	139518	244158	97663	162772	244158	122079	244158	325544			
512GB	92969	162696	244044	108464	216928	325393	162696	278908	488089	195235	325393	488089	244044	488089	650786			
Still image	3M (2048×1536)			2M (1600×1200)			2M [16:9] (1920×1080)			1280 (1280×960)			1024 (1024×768)			640 (640×480)		
	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
Built-in Memory	43	85	124	69	124	167	63	114	167	99	181	256	150	256	335	311	484	545
1GB	598	1185	1727	959	1727	2325	876	1591	2325	1374	2519	3556	2084	3556	4650	4318	6717	7557
2GB	1205	2364	3415	1921	3415	4728	1756	3235	4728	2794	5122	6830	4098	6830	8782	8782	12295	15368
4GB	2366	4642	6705	3771	6705	9284	3448	6352	9284	5486	10058	13411	8046	13411	17243	17243	24140	30175
6GB	3598	7058	10195	5734	10195	14116	5243	9658	14116	8341	15293	20390	12234	20390	26216	26216	36703	45879
8GB	4816	9447	13646	7675	13646	18894	7018	12927	18894	11165	20469	27292	16375	27292	35090	35090	49126	61407
12GB	7264	14249	20583	11577	20583	28499	10585	19499	28499	16840	30874	41166	24699	41166	52927	52927	74098	92623
16GB	9690	19007	27455	15443	27455	38015	14120	26010	38015	22463	41183	54911	32947	54911	70600	70600	98841	123551
32GB	19438	38129	55075	30979	55075	76258	28324	52176	76258	45061	82613	110150	66090	110150	141622	141622	198271	247839
48GB	28021	52040	72856	45535	72856	91071	40476	72856	91071	60714	121428	121428	91071	121428	182142	182142	182142	364284
64GB	38025	70618	98866	61791	98866	123583	54925	98866	123583	82388	164777	164777	123583	164777	247166	247166	247166	494332
128GB	75020	139324	195054	121909	195054	243818	108363	195054	243818	162545	325090	325090	243818	325090	487636	487636	487636	975272

256GB	139518	244158	325544	244158	325544	488316	195326	325544	488316	325544	488316	488316	488316	488316	976632	976632	976632	976632
512GB	278908	488089	650786	488089	650786	976179	390471	650786	976179	650786	976179	976179	976179	976179	1952358	1952358	1952358	1952358

●Movie

Movie	1920 (1920×1080)		1280 (1280×720)	
	30fps	60fps	30fps	120fps
Built-in Memory	0:00:34	0:00:34	0:00:55	0:00:21
1GB	0:08:21	0:08:21	0:13:33	0:05:20
2GB	0:17:02	0:17:02	0:27:38	0:10:52
4GB	0:33:29	0:33:29	0:54:18	0:21:22
6GB	0:50:56	0:50:56	1:22:36	0:32:30
8GB	1:08:11	1:08:11	1:50:35	0:43:31
12GB	1:42:52	1:42:52	2:46:49	1:05:40
16GB	2:17:14	2:17:14	3:42:33	1:27:36
32GB	4:35:19	4:35:18	7:26:26	2:55:44
48GB	6:44:41	6:44:40	10:56:11	4:18:17
64GB	9:09:09	9:09:07	14:50:26	5:50:30
128GB	18:03:27	18:03:23	29:16:46	11:31:31
256GB	36:09:56	36:09:48	58:38:27	23:04:59
512GB	72:17:51	72:17:35	117:13:38	46:08:41

[hh:mm:ss]

\*The maximum recording time per shooting is 25 minutes for Movie mode and Underwater Movie mode.

\*The maximum recording time per shooting is 15 seconds for High Speed Movie mode.

## PENTAX WG-90

### System Requirements

Windows®	Windows® 10	Windows® 11		
Mac	macOS 10.15 Catalina	macOS 11 Big Sur	macOS 12 Monterey	macOS 13 Ventura

\* Supported OS must be pre-installed in PC and updated to the latest version. USB port must be standard equipped.