

	UHP-140	NANO	Pro XS	Log S	Log M	Pro S Enhanced	Pro M Enhanced	PRO S	PRO M	Deep	DEEP	Laser L V3S	LSR L	Laser L	Laser L Enhanced -12MP
Recommended Working Distance (mm)	300 ± 20	300-600	300-600	500-1000	800-2000	500-1000	800-2000	500-1000	1000-2000	1200-3500	1200-3500	1500-3000	1200-3000	1500-3000	1500-3000
Near FOV (mm)	135 x 90 @ 0.28m	220 x 150 @ 0.3m	220 x 160 @ 0.3m	360 x 250 @ 0.5m	520 x 390 @ 0.8m	350 x 220mm @ 0.5m	500 x 350mm @ 0.8m	370 x 240 @ 0.5m	800 x 450 @ 1.0m	970 x 1160 @ 1.2m	1200 x 1000 @ 1.2m	1500 x 1200 @ 1.5 m	1200 x 1000 @ 1.2m	1500 x 1200 @ 1.5 m	1500 x 1200 @ 1.5 m
Far FOV (mm)	150 x 100 @ 0.32m	440 x 300 @ 0.6m	430 x 320 @ 0.6m	710 x 490 @ 1.0m	1410 x 960 @ 2.0m	690 x 430 mm @ 1.0m	1360 x 860 mm @ 2.0m	800 x 450 @ 1.0m	1500 x 890 @ 2.0m	2830 x 3320 @ 3.5m	3500 x 2800 @ 3.5m	3000 x 2400 @ 3.0 m	3000 x 2400 @ 3.0m	3000 x 2400 @ 3.0 m	3000 x 2400 @ 3.0 m
Resolution	2048 x 1536	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200	2048 x 1536	2048 x 1536 (Depth Map) 2000 x 1500 (RGB)	2048 x 1536	2048 x 1536 (Depth Map) 4000 x 3000 2000 x 1500 (RGB)	2048 x 1536	4096 x 3000 4096 x 3000
Megapixels (MP)	3	1.3	1.3	1.3	1.3	2.3	2.3	2.3	2.3	3	3	3	3	3	12
Point repeatability Z (σ)[1]	2.6 μm @ 0.3m	0.1mm@0.5m	0.1mm @ 0.5m	0.1mm @ 1.0m	0.3mm @ 2.0m	0.05 mm @ 1m	0.2mm @ 2m	0.05mm @ 1.0m	0.2mm @ 2.0m	1.0mm @ 3.0m	1.0mm@3.0m	0.5mm @ 3.0m	0.5mm @ 3.0m	0.5 mm @ 3m	0.2 mm @ 1.5m
Regional Z-value Repeatability (σ) [2]	0.09 μm @ 0.3m	0.1mm@0.5m	0.1mm @ 0.5m	0.2mm @ 1.0m	0.3mm @ 2.0m	0.1 mm @ 1.0 m	0.2 mm @ 2 m	0.1mm @ 1.0m	0.2mm @ 2.0m	3.0mm @ 3.0m	3.0mm@3.0m	1.0 mm @ 3m	1.0mm @ 3.0m	1.0 mm @ 3m	0.5 mm @ 1.5m
VDI/VDE accuracy[3]	0.03mm @ 0.3m	0.1mm@0.5m	0.1mm @ 0.5m	0.2mm @ 1.0m	0.3mm @ 2.0m	0.1 mm @ 1.0 m	0.2 mm @ 2 m	0.1mm @ 1.0m	0.2mm @ 2.0m	3.0mm @ 3.0m	3.0mm@3.0m	1.0 mm @ 3m	1.0mm @ 3.0m	1.0 mm @ 3m	0.5 mm @ 1.5m
Typical capture time (s)	0.6-0.9	0.6-1.3	0.7-1.1	0.3-0.5	0.3-0.5	0.5-0.8	0.5-0.8	0.3-0.6	0.3-0.6	0.7-1.1	0.5-0.9	0.5-0.9	0.5-0.9	0.5-0.9	1.4-1.7
Baseline (mm)	80	68	93	150	280	150	280	180	270	400	300	400	380	400	400
Dimensions (mm)	260 x 65 x 142	145 x 51 x 85	160 x 52 x 87	270 x 72 x 130	387 x 72 x 130	270 x 72 x 130	387 x 72 x 130	265 x 57 x 100	353 x 57 x 100	481 x 98 x 145	366 x 77 x 92	459 x 89 x 145	459 x 77 x 86	459 x 89 x 145	459 x 89 x 145
Weight (kg)	1.9	0.7	0.8	2.2	2.4	2.2	2.4	1.6	1.9	4.3	2.4	3.7	2.9	3.7	3.9
Light source	Blue LED(459nm,RG2)			White LED (RG2)			White LED (RG2) Blue LED(459nm,RG2)		Blue LED(459nm,RG2)		White LED (RG2)	Red laser (638nm,Class 2)	Red laser (638nm,Class 2, 3R)	Red laser (638nm,Class 2)	
Operating temperature (°C)	0-45°C														
Communication interface	Gigabit ethernet														
Image sensor	Sony CMOS for high-end machine vision	Other high-performance CMOS for high-end machine vision					Sony CMOS for high-end machine vision								
Input	24V DC, 3.75A	24V DC, 1.5A					24V DC, 3.75A								
Safety and EMC	CE/FCC/CE/FCC/VCCI/UKCA/KC					CE/FCC/VCCI					CE/FCC/CE/FCC/VCCI/UKCA/KC				
IP rating[4]	IP65										Passive				
Cooling	Passive														

[1] One standard deviation of 100 Z-value measurements of the same point. Measurement target was a ceramic plate.

[2] One standard deviation of 100 measurements of the difference between the Z-value means of two same-sized regions. The measurement target is a ceramic plate.

[3] According to VDI/VDE 2634 Part II.

[4] Test implemented based on IEC 60529. 6: dust-tight; 5: protected against water jets.