ROYALTOOL	Barlus Brand						
	Common series		Mini Series				Multi-lens series (5lens in one)
	DZ10010-ES	DZ10010-SS (UW-S5-3C)	D10011	D10012	D10014		DZ10010-SS- 5ESU
Lens type	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens	Fixed lens
Standard lens	2.0mm	2.8mm	2.8mm	3.6mm	2.8mm	2.8mm	2.8mm
F.O.V	116°	100°	100°	90°	85°	85°	100°
Sensor type	1/2.8"sony CMOS	1/2.7"OV CMOS	1/2.8"sony CMOS	1/2.8"sony CMOS	1/2.8"sony CMOS	1/2.8"sony CMOS	1/2.8"sony CMOS
Min illumination	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2
Resolution(Standard)	2MP1920X1080P 50FPS	5MP2592×1944P 25FPS	2MP1920X1080P 50FPS	2MP 1920X1080P 50FPS	2MP1920X1080P 30FPS	2MP1920X1080P 30FPS	2MP1920X1080P 30FPS
Resolution(Max)	2MP1920X1080P 50FPS	12MP4000*3000P 15FPS	2MP1920X1080P 50FPS	2MP 1920X1080P 50FPS	2MP1920X1080P 30FPS	2MP1920X1080P 30FPS	2MP1920X1080P 30FPS
Built-in light	3pcs Led lights 4pcs infrared lights	3pcs Led lights 4pcs infrared lights	3pcs led lights	6pcs led lights	No	No	15pcs led lights
Built-in storage	No	No	128G	Option	No	No	No
IP video	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG
Voltage	DC12V/24V	DC12V/24V	DC12V/24V	DC12V/24V	DC24V	DC24V	DC24V
Saltwater depth	50M	50M	50M	300M	3000M	3000M	50M
Housing material	316L	316L	316L	Titianium	Titianium	Titianium	316L
Head dimension	Φ70mm*65mm(L)	Φ70mm*100mm(L)	Φ46mm*80mm(L)	Φ50mm*48mm(L)	Φ40mm*50mm(L)	Φ40mm*50mm(L)	Φ70mm*190mm(L)
Head weight	1.5KG	1.5KG	0.7KG	0.175KG	0.05KG	0.05KG	2.5KG
Standard connector	RJ45+DC	RJ45+DC	RJ45+DC	RJ45+DC or CVBS	8pins	RJ45+DC	RJ45+DC
Support device	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR
Support Protocal	IPv4/IPv6,802.1x,RTSP,RTMP,ONVIF;HTTP,HTTPS, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,SDK Secondary development		IPv4/IPv6,802.1x,RTSP,RTMP,ONVIF;HTTP,HTTPS, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,SDK Secondary development				IPv4/IPv6,802.1x,RTSP,RTMP,ONVIF;HTTP,HTTPS, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,SDK Secondary development
Cable length(Max)	50M	80M	80M	80M	80M	80M	80M
Cable weight	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M
Operating humidity	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%
Operating temperature	-20°C-55°C	-20℃-55℃	-20℃-55℃	-20℃-55℃	-20℃-55℃	-20℃-55℃	-20℃-55℃

ROYALTOOL	Barlus Brand					
	Zoom series			PTZ Series		
	DZ10010-SS-3Eye	DZ10010-SS (UW-S2Z-C6)	DZ10010-SS-DZ97	DZ10010-SS-PTZ180	D10007	D6030
Lens type	3XOptical zoom	4xOptical zoom	30XOptical zoom	30XOptical zoom	10xOptical zoom	18XOptical zoom
Standard lens	3.6mm-11mm	2.8mm-12mm	4.7mm-141mm	4.7mm-141mm	3.8mm-38mm	5-90mm
Pan and Tilt	/	/	/	Pan:360° Tilt:180°	Pan:360° Tilt:180°	Pan:360° Tilt:180°
F.O.V	80°-35°	90°-30°	60.5°	60.5°	117°	
Sensor type	1/2.8" Sony	1/2.8" Sony	1/2.8" Sony	1/2.8" Sony	1/2.7"Aptina CMOS	1/2.7"Aptina CMOS
Min illumination	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.001Lux@F1.2	0.1Lux@F1.2	0.5Lux/F1.4
Resolution(Standard)	2MP1920X1080P 60FPS	2MP1920X1080P 60FPS	2MP1920X1080P 60FPS	2MP1920X1080P 60FPS	2MP1920X1080P 30FPS	5MP 2592*1944 15FPS;
Resolution(Max)	5MP2592X1944P 25FPS	2MP1920X1080P 60FPS	4K 3840X2160P 30FPS	4K 3840X2160P 30FPS	5MP2592X1944P 30FPS	5MP 2592*1944 15FPS;
Built-in light	12pcs led lights 8pcs infrared lights	3pcs Led lights 4pcs infrared lights	12pcs led lights 8pcs infrared lights	6pcs led lights	Option	Option
Built-in storage	No	No	No	No	No	
IP video	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265+/MJPEG	H.264/H.264+/ H.265/H.265	H.264/H.264+/ H.265/H.265
Voltage	DC24V	DC24V	DC24V	DC24V	POE	POE
Saltwater depth	100M	50M	100M	100M	80M/120M	30M
Housing material	316L	316L	316L	Titanium	316L	316L
Head dimension	Φ70mm*350mm*140mm	Φ70mm140mm	L350mm*W174mm*H141mm	Φ160mm*423.3mm	158mmx158mmx150mm	L320mm×W240mm×H420mm
Head weight	7KG	1.8KG	8.5KG	15KG	5KG	19KG
Standard connector	JR45+DC	JR45+DC	JR45+DC	JR45+DC	RJ45	RJ45
Support device	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR	Computer,NVR
Support Protocal	IPv4/IPv6,802.1x,RTSP,RTMP,ONVIF;HTTP,HTTPS, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,SDK Secondary development			IPv4/IPv6,802.1x,RTSP,RTMP,ONVIF;HTTP,HTTPS, TCP/IP, UDP, RTP, RTCP, UPNP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP,SDK Secondary development		HTTP/Onvif/DHCP/DDNS/NTP
Cable length(Max)	80M	80M	80M	80M	80M	80M/150M	80M
Cable weight	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M	0.1KG/M	0.12KG/M	0.12KG/M
Operating humidity	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%	0%-100%
Operating temperature	-20°C-55°C	-20℃-55℃	-20°C-55°C	-20°C-55°C	-20°C-55°C	-10°C-60°C	-10°C-60°C