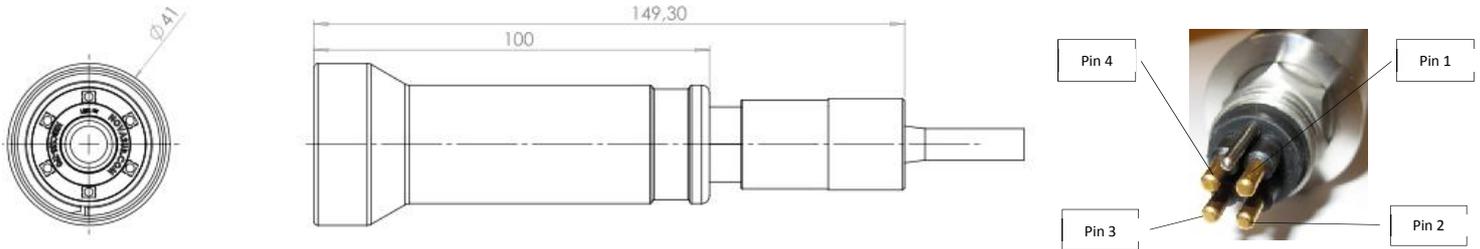


General use description:

The NSBCL type cameras are built out of one piece stainless 316 steel. The camera has one O-ring for sealing on the front glass and clip ring for locking the front glass. The connector has one O-ring for sealing. The NSBCL housing has a groove on the back end. This groove can be used to easily fix the camera with a Jubilee clip to a strip or other bracket. The front glass is made of Lexan (Poly Carbonate) and is resistant to most dissolvent chemicals. The NSBCL has 6x high brite LED's around the camera.

Dimensions:



Installation:

The camera housing can be fixed to any structure or bracket using a Jubilee clip which fits in the groove on the back part of the camera housing.

Electrical connection:

Make sure to connect the power to the correct indicated pins. The power contacts are polarity protected. The video signal contacts are not protected against external power supply.

DO NOT: do not connect + power supply to the video signal contacts.

Connector layouts:

	MCBH4MSS	NSBCLSS-TP0		NSBCLSS-C1		NSBCLSS-C2	
Mating connect or MCIL4F	Pin1	GND	GND power supply	Video out	Coax signal	GND	GND power supply
	Pin2	Vcc	10-36 VDC	GND	GND/VidGND	Vcc	10 - 36 VDC
	Pin3	Video +	Video transmission over twisted pair	Vcc	10 - 36 VDC	Video out	Coax signal
	Pin4	Video -		nc	nc	screen	Coax screen

Maintenance:

The stainless steel housing can be cleaned with water and soap and if needed polished with stainless steel polishing materials. The Lexan front glass can be cleaned with water and soap and only using a cotton cloth or any other non-scratching material. Small scratches on the front glass will not affect the view underwater. The front glass is locked in the housing with a clip ring in a groove.

Make sure that the clip ring is not missing.

Lubricate the connector pins regular with Silicon grease.

DO NOT: do not clean the front glass with paper or other scratching materials

Warranty:

The NSBCL camera has a 2 year warranty on manufacturing defaults.

Warranty is lost when the camera housing has been opened by the user or used in conditions otherwise then indicated in the specifications.

Specifications:

Model	NSBCLSSB	NSBCLSSD	NSBCLSSC	NSBCLSS E
Image Pick-up Device	1/3" 960H SONY EXview HAD CCD II		1/3" SONY Super HAD CCD II	
Horizontal Resolution	700 TVL		550 TVL	
Effective Pixels	PAL: 976(H) X 582(V) (Total: 1020(H) X 596(V))		PAL: 752(H) X 582(V) (Total: 795(H) X 596(V))	
Scanning System	2:1 Interlace			
Sync System	Internal			
Electronic Shutter Time	PAL: 1/50 ~ 1/100,000 sec			
Usable Illumination	0.1 Lux		0.05 Lux	
Lens	3,6mm	2,97 mm	3,6mm	2,97 mm
Field of View (FOV) underwater	62°	80°	62°	80°
Video Output	TP: Video line drive (over twisted pair) or C: 1.0Vp-p 75 ohm (coax)			
Gain Control(AGC)	Auto			
Power Supply	10-36 vdc 250mA			
Dimensions:	100 mm x ø 41 mm (excl. Connector)			
Material Housing:	S/S 316		S/S 316	
Weight :	290 gr. (In air), 230 gr. (In water)		290 gr. (In air), 230 gr. (In water)	
Operating Depth:	1000 m		1000 m	
Connector:	Standard: MCBH4MSS pin layout: 0 : 1=-,2=+,3=vid+,4=Vid- 1 : 1=Vid,2=-/VidGnd,3=+ 2 : 1=-,2=+,3=Vid,4=VidGnd			
Connection for mounting:	Jubilee clip groove			
LED ring	6x High Brite LED's total 72 lumen, at a distance of 20 cm from cam. 1800 lux of light at 6500 K			
Operating Temp.	In water -10°C - +40°C			
Optional lens:	3-6-8-12 mm (FOV underwater 85°, 40°,30°,21°)			

Options: SSBNSBCL, Novasub Kirby Morgan bandmask or helmet Bracket