

Data sheet: XS-Series

CRXS-50



Technical specifications:

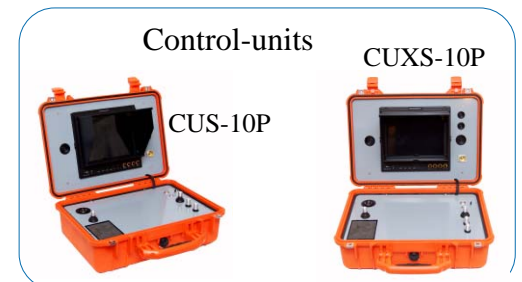
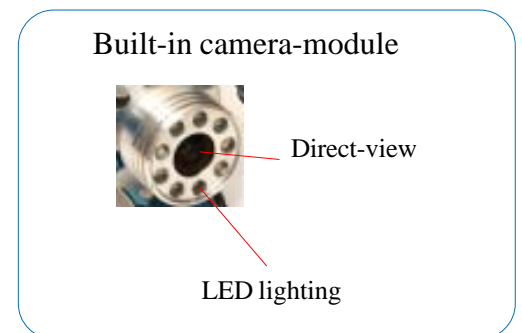
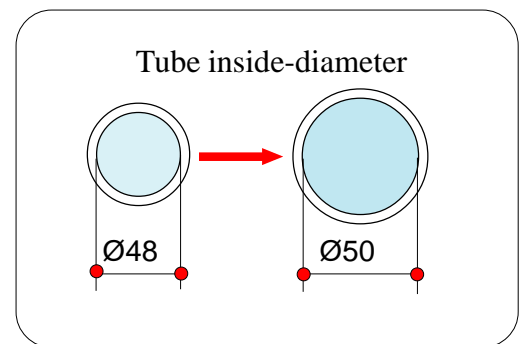
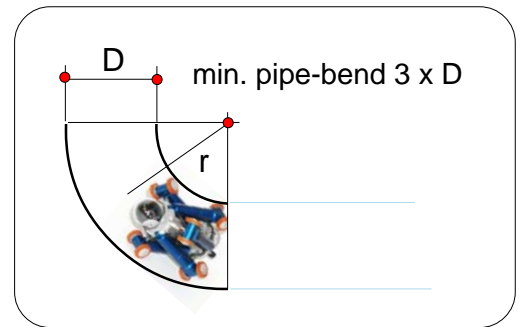
Min. diameter:	48mm
Max. diameter:	50mm (2")
Length:	92mm
Weight (without camera):	0,15 kg
Material:	Aluminium anodized
Watertight:	Splashproof
Smallest tube bend:	3xd
Driven wheels:	12
Wheel diameter:	14mm
Wheel material:	Natural rubber - e
Ball bearings:	18
Micro-motors:	6
Voltage:	12VDC
Gearboxes:	6
Gear type:	Planetary gear
Transmission ratio:	246:1
Max.speed:	4m/min.
Vertical traction force:	35 N
Cameramodule:	not changeable
Operating temperature	-10°C to +50°C
Recomm. max.cable length:	20-30m

The maximum cable length is dependent on number of pipe bends

Available camera-modules: *built-in*

Available Control-units: *CUS-10P for S+M series*
CUXS-10P for XS- series

Available cable reel: *CRXS-20*



Data sheet: XS-Series

CRXS-75/95

Technical specifications:

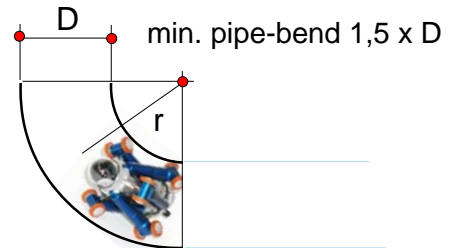
Min. diameter:	75mm (3")
Max. diameter:	95mm (4,3")
Length:	120mm
Weight (without camera):	0,54 kg
Material:	Aluminium anodized
Watertight:	Splashproof
Spring shock absorbers:	1 - variable adjustable
Smallest tube bend:	1,5xd
Driven wheels:	12
Wheel diameter:	20mm
Wheel material:	Natural rubber - easily changeable
Right angle gear boxes:	6
Bevel gears:	12 - steel machined
Transmission ratio:	1:1
Ball bearings:	18
Micro-motors:	6
Voltage:	12VDC
Gearboxes:	6
Gear type:	Planetary gear
Transmission ratio:	246:1
Max.speed:	4m/min.
Vertical traction force:	46 N
Operating temperature	-10°C to +50°C
Cameramodule:	not changeable
Recomm. max.cable length:	30m

The maximum cable length is dependent on number of pipe bends

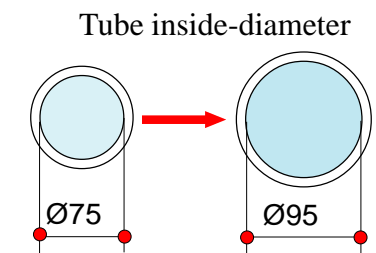
Available camera-modules: *built-in*

Available Control-units: *CUS-10P for S+M series*
CUXS-10P for XS- series

Available cable reel: *CRS-30*

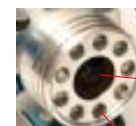


smaller tube bends upon request



variable adjustable

Built-in camera-module



Direct-view

LED lighting

Control-units



CUS-10P



CUXS-10P

Cable reel



CRXS-30

Data sheet: XS-Series

CRXS-80/110

Technical specifications:

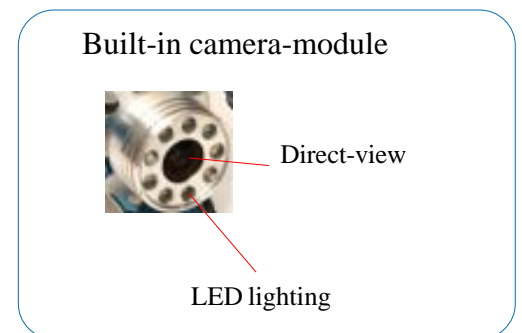
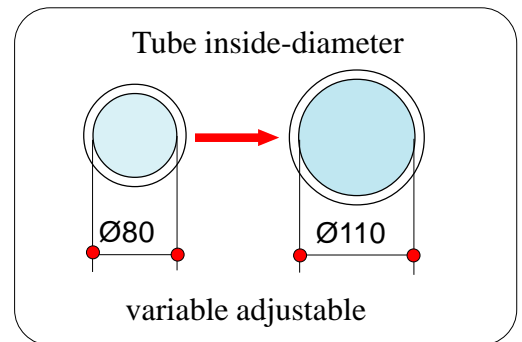
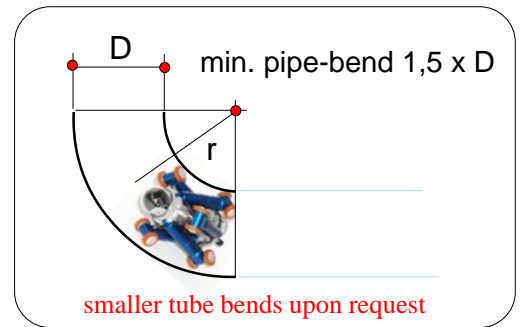
Min. diameter:	80mm (3")
Max. diameter:	110mm (4,3")
Length:	122mm
Weight (without camera):	0,64 kg
Material:	Aluminium anodized
Watertight:	Splashproof
Spring shock absorbers:	3 - variable adjustable
Smallest tube bend:	1,5xd
Driven wheels:	12
Wheel diameter:	20mm
Wheel material:	Natural rubber - easily changeable
Right angle gear boxes:	6
Bevel gears:	12 - steel machined
Transmission ratio:	1:1
Ball bearings:	18
Micro-motors:	6
Voltage:	12VDC
Gearboxes:	6
Gear type:	Planetary gear
Transmission ratio:	246:1
Max.speed:	4m/min.
Vertical traction force:	46 N
Operating temperature	-10°C to +50°C
Cameramodule:	Easily changeable, different camera-modules available
Recomm. max.cable length:	40m

The maximum cable length is dependent on number of pipe bends

Available camera-modules: built-in

*Available Control-units: CUS-10P for S+M series
CUSX-10P for S,M+X series*

Available cable reel: CRS-30



Data Sheet: S-Series

CRS-100/150



Technical specifications:

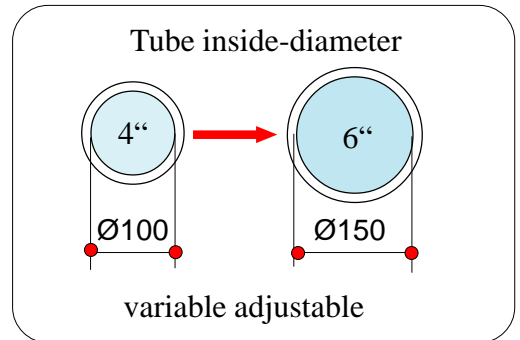
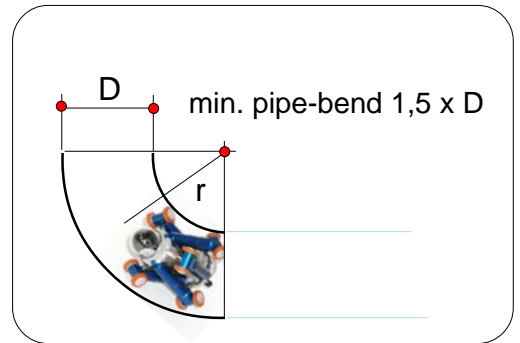
Min. diameter:	100mm (4")
Max. diameter:	150mm (6")
Length:	140mm
Weight (without camera):	0,75 kg
Material:	Aluminium anodized
Watertight:	Splashproof
Spring shock absorbers:	3 - variable adjustable
Smallest tube bend:	1,5xd
Driven wheels:	12
Wheel diameter:	20mm
Wheel material:	Natural rubber - easily changeable
Right angle gear boxes:	6
Bevel gears:	12 - steel machined
Transmission ratio:	1:1
Ball bearings:	18
Micro-motors:	6
Voltage:	12VDC
Gearboxes:	6
Gear type:	Planetary gear
Transmission ratio:	246:1
Max.speed:	4m/min.
Vertical traction force:	95 N
Operating temperature	-10°C to +50°C
Cameramodule:	Easily changeable, different camera-modules available
Recomm. max.cable length:	50m

The maximum cable length is dependent on number of pipe bends

Available camera-modules: **CM-35F**, direct view with fixfocus
PT-35F, Pan&Tilt camera + fixfocus

Available Control-units: **CUS-10P** for S+M- series
CUSX-10P for S,M+X -series

Available cable reel: **CRS-30**



Data sheet: Pan & Tilt cameras

PTZ-80RF

Technical specifications:

Image-sensor	1/4" SONY Super HAD CCD
TV lines	480 TVL
Pixels	438.000
Minimum illumination	2,5 Lux/F2,2
Focus	Remote-Focus
Lens	4,2- 42 (10xZoom)
Lighting system	10x4 (40) High intensity LED
Diameter	80mm
Shank diameter	40mm
Length	190mm
Weight	0,65 kg
Rotation	360° endless
Swivel	2x100°
Operating temperature	-10°C - +50°C

PT-55F

Technical specifications:

Image-sensor	1/4" SONY Super HAD CCD
TV lines	480 TVL
Pixels	438.000
Minimum illumination	2,5 Lux/F2,2
Focus	Fixfocus
Lens	3,8mm
Lighting system	8x4 (32) High intensity LED
Diameter	55mm
Shank diameter	25mm
Length	175mm
Weight	0,2 kg
Rotation	360° endless
Swivel	2x100°
Operating temperature	-10°C - +50°C

PT-35F

Technical specifications:

Image-sensor	1/4" SONY Super HAD CCD
TV lines	480 TVL
Pixels	438.000
Minimum illumination	2,5 Lux/F2,2
Focus	Fixfocus
Lens	3,8mm
Lighting system	16 High intensity LED
Diameter	80mm
Shank diameter	40mm
Length	150 mm
Weight	0,12 kg
Rotation	360° endless
Swivel	2x100°
Operating temperature	-10°C - +50°C

X - series



M - series



S - series



Data sheet: Camera-module

CM-50F

Direct-view Cameramodule for Crab-Robot S+M-Series

Technical specifications ccd-camera

Image-sensor	1/4" SONY Super HAD CCD
TV lines	480 TVL
Pixels	438.000
Minimum illumination	2,0 Lux/F2,2
AES	1/50s - 1/100.000s
Lens	3,8mm / F2.2
Focus	Fixocus
Viewing angle	80°
Operating temperature	-10°C - +50°C
Lighting system	High intensity LED`s

S - series M - series



CMX-80RF

Direct-view Cameramodule for Crab-Robot X-Series

Technical specifications ccd-camera

Image-sensor	1/4" SONY Super HAD CCD
TV lines	480 TVL
Pixels	438.000
Minimum illumination	2,0 Lux/F2,2
AES	1/50s - 1/100.000s
Lens	3,8mm / F2.2
Focus	Remote-Focus
Viewing angle	80°
Operating temperature	-10°C - +50°C
Lighting system	High intensity LED`s

X - series





CRXS - 50
(fixed camera option only)
48mm to 50mm ID range



CRXS - 75/95
(fixed camera option only)
75mm to 95mm ID range



CRS - 80/110
80mm to 110mm ID range

CRS - 100/150
100mm to 150mm ID range



CRM - 150/180
150mm to 180mm ID range

CRM - 180/230
180mm to 230mm ID range



CRXS - 20
20m control cable



CUXS - 10P
Control unit with 10" LCD
monitor



CM - 35F
Fixed camera with fixed
focus and LED illumination

OR

PT- 35F
Pan/tilt camera with fixed
focus and LED illumination



CARS - 30
30m control cable



CUS - 10P
Control unit with 10" LCD
monitor (S & M series)