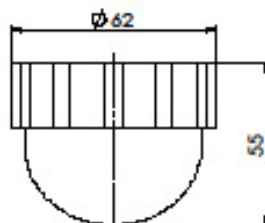


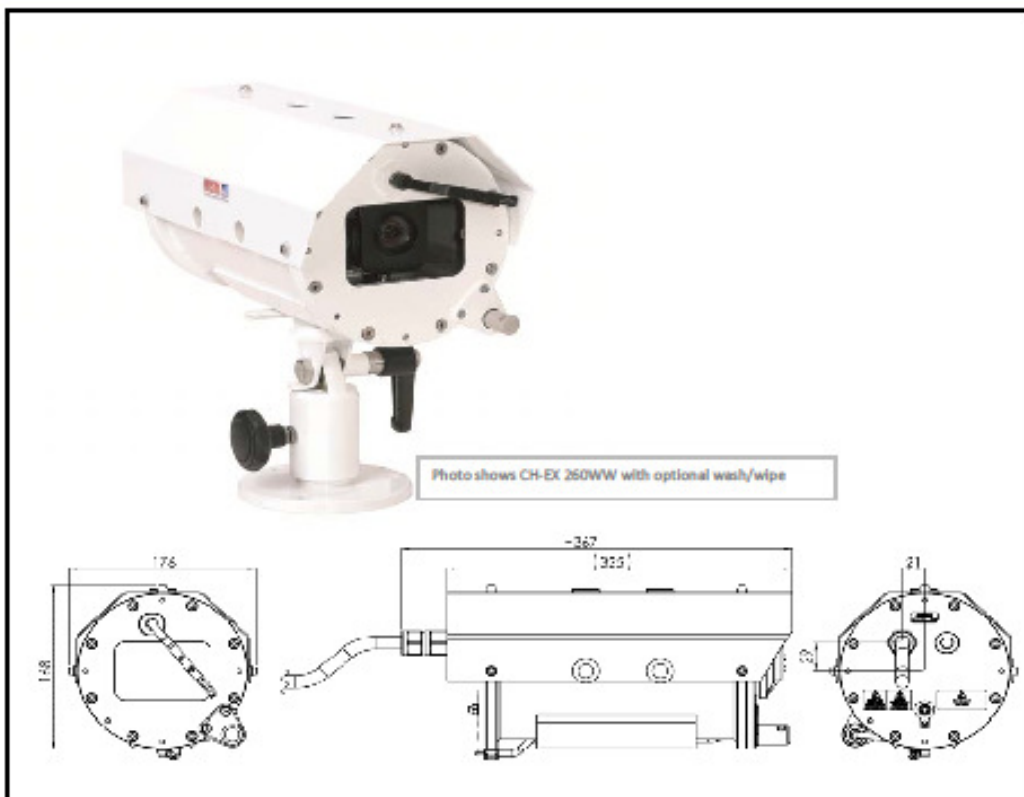
camera housing

Type	CH-dome 330 (Indoor Dome colour camera)
Image Sensor	1/4" CCD
Signal System	PAL
Picture Elements	approx. 300k pixels
Horizontal Resolution	380 TV lines
Lens	Fixfocus 3.6mm
Angle of View(H)	70 degrees
Min. Illumination	1.0 lux
S/N Ratio:	49 dB
Video Output	1 Vp-p/ 75ohm
Operating Temperature	0 to +40 °C
Power Requirements / Power Consumption	12V DC /180mA
Weight	approx. 70g
Dimensions	dia.: 62mm x 55mm



camera housing flameproof EX d data sheet

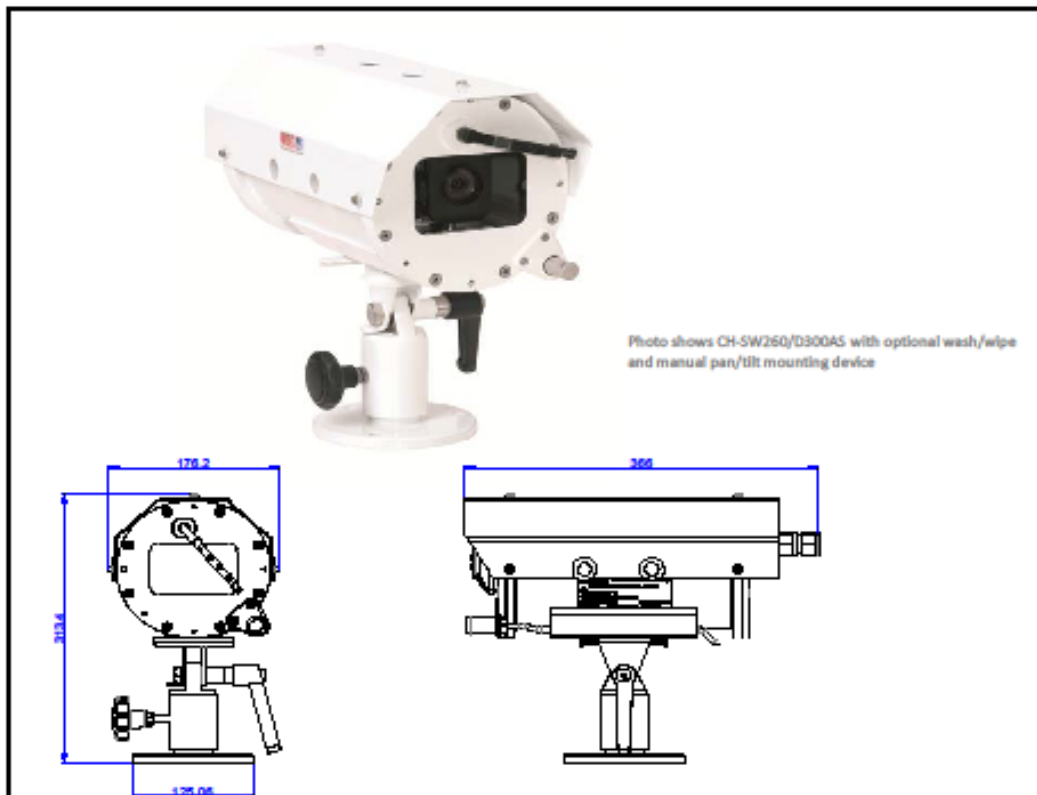
Type	CH-EX 260 / CH-EX260WW (Zone 1)
Material	Stainless Steel 1.4571 (AISI316Ti / SUS316Ti)
Weight	Approx. 7.2kg, approx. / 7.4kg for type "WW"
Dimensions (over all)	Length: 367mm diameter: 176mm
Surface	Powder coated RAL 9016 (traffic white)
Frontglass	Seawater resistant one pane safety glass
IP protection class	IP66 and IP 68 to 2 bar (30 min.) acc. EN 60529
Vibration	2.3G vibration strain in function acc. IEC 60068-2-6
EMC	Construction acc. EN 55022, EN 55024
Ex-protection	II2G Ex d IIC T6 -30°C≤Tas+55°C II2D Ex t IIIC T85°C Db IP 6X
Test certificate	TÜV 10 ATEX 381435X
Heater	Automatic controled heating device
Voltage	230VAC, 24VAC or 24VDC
Control system / Video	Electrical, bus, RS232, others
De-mister	Gas de-mister system
Conformity to standards	directive 94/9/EG, EN 60079-0:2009, EN 60079-1:2007 EN 60079-31:2009



camera housing

data sheet

Type	CH-S260 // CH-SW260
Material	Stainless Steel
Weight	Approx. 7.2kg, approx. 7.4kg for type "WW"
Dimensions (over all)	Length: 367mm diameter: 176mm
Surface	Powder coated RAL 9016 (traffic white)
Frontglass	Seawater resistant one pane safety glass
IP protection class	IP66 and IP 68 to 2 bar (30 min.) acc. EN 60529
Vibration	2.3G vibration strain in function acc. IEC 60068-2-6
EMC	Construction acc. EN 55022, EN 55024
Voltage	24VAC or 24VDC
Operating Temperature (Ta)	-30°C / +55°C
Heater	Automatic controled heating device
Voltage	24VAC or 24VDC
Control system / Video	RS485/422/232, analogue FBAS
De-mister	Gas de-mister system
Mounting variations	D300AS: Manual adjustable pan&tilt unit FL20: Remote controled pan&tilt unit

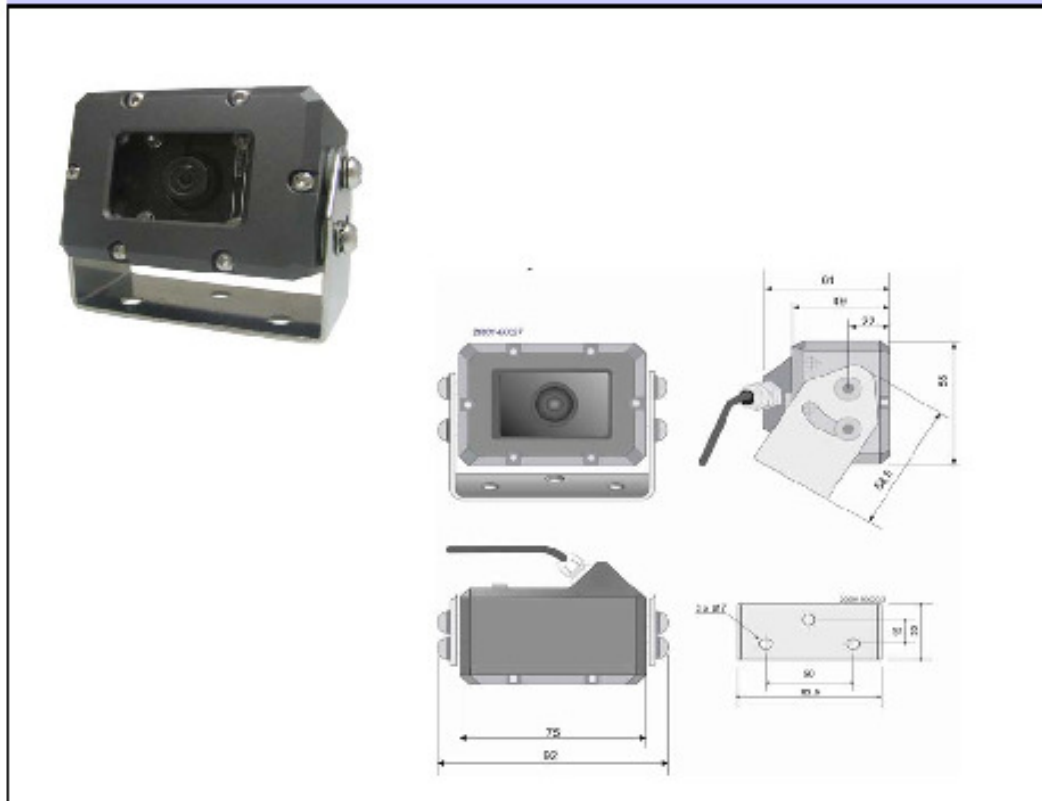


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 12. October 2011-Index: 01

compact camera

data sheet

Type	MC3000A / MC300W
Material	Aluminium, anodized
Weight	Approx. 0,52kg
Operating temperature	-35°C to +70°C
IP protection class	IP 69K acc. EN 60529
Shock resistance	> 50g
Vibration resistance	> 10g
Horizontal image angle	20° / 40° / 70° / 90° / 100° / 115°
Image sensor	1/3" CCD
Min. light intensity	<0,3lx
Resolution	320.000 Pixel
Videosignal	FBAS, 1 Vss / 75 Ohm
Power / Power consumption	12VDC / 3W
Power / Power consumption Type "W"	9 - 32VDC / 3W
Mounting Variations	Manual adjustable stainless steel bracket

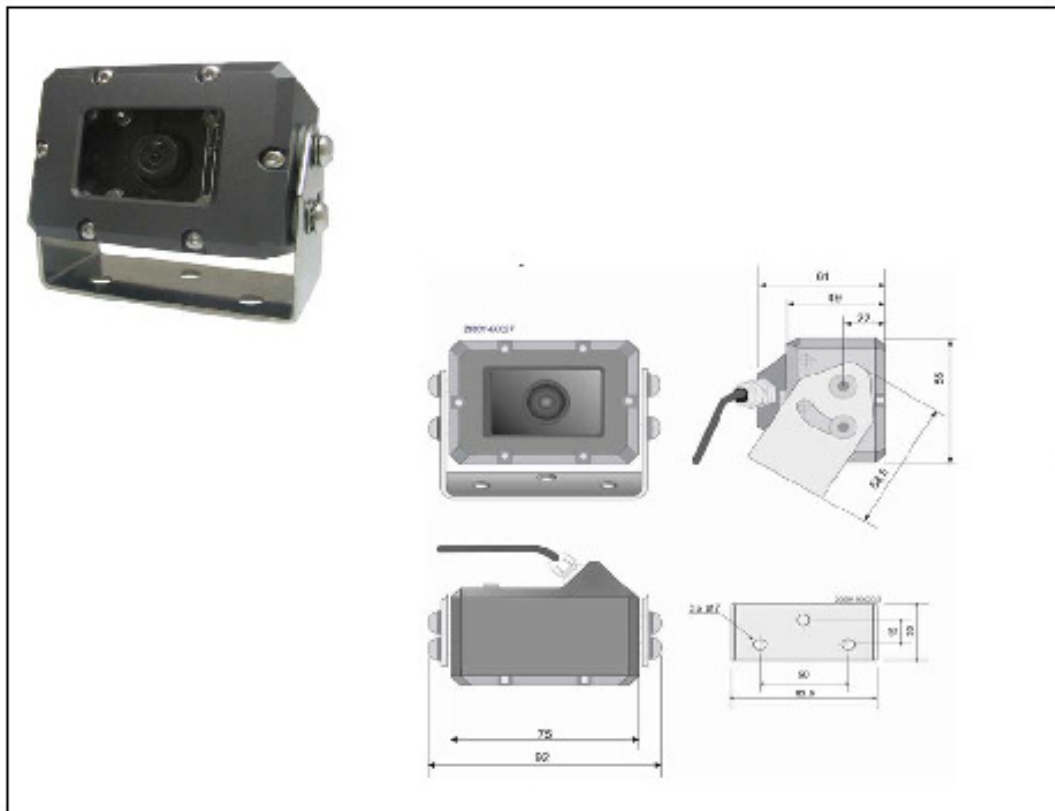


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 22. January 2010 Index: 03

compact camera Ex

data sheet

Type	MC3000A-EX
Material	Aluminium, anodized
Weight	Approx. 0,52kg
Operating temperature	-20°C to +50°C
IP protection class	IP 69K acc. EN 60529
Shock / Vibration resistance	50g / 10g
Ex	Ex II 3D tD A22 IP65 T80°C // Ex II 3G nR II T6 (Zone 2)
Horizontal image angle	20° / 40° / 70° / 90° / 100° / 115°
Image sensor	1/3" CCD
Min. light intensity	<0,3lx
Resolution	320.000 Pixel
Videosignal	FBAS, 1 Vss / 75 Ohm
Power	12VDC
Front-glass heating	Automatic controlled
Mounting Variations	Manual adjustable stainless steel bracket



The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 1 September 2011. Index: 02

camera housing

data sheet

Type	CH-RT162 (Indoor)
Material	Aluminium
Weight	Approx. 1.4 kg
Dimensions (over all)	Length: 214mm width: 82mm height: 89mm
Dimensions (inside)	Length: 160mm width: 55mm height: 62mm
Surface	Powder coated RAL 9002 (grey white)
IP protection class	IP 67 acc. EN 60529
Operating temperature	-40°C to 70°C
EMC	Construction acc. EN 55022, EN 55024
Vibration	1.4G vibration strain in function acc. IEC 60068-2-6
Voltage	Standard: 24V AC 25W
Control system	Electrical, bus, RS232, others
Video	BNC (coaxial), upon request: optical fiber (external)
Connection plugs	7-pole and BNC, other upon request
Heater	Automatic controlled heating device
Options:	Different camera modules available Different mounting variations
Mounting variations	Manual adjustable pan unit FMT Manual adjustable pan & tilt unit FMPT Remote controlled pan & tilt unit FL10 or FL20



The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 18. February 2009/rev. 02

camera module

data sheet

Type	FCB-IX11AP Colour Video Camera
Image Sensor	1/4" Type Exview HAD CCD
Signal System	PAL (NTSC upon request)
Picture Elements	approx. 440k pixels
Horizontal Resolution	480 TV lines
Lens	10x zoom, f=4.2 mm (wide) to 42 mm (tele), F1.8 to F2.9
Zoom	40x (10x optical, 4x digital)
Angle of View(H)	46 degrees (wide end) to 4.6 degrees (tele end)
Min. Working Distance	10 mm (wide end), 1000 mm (tele end)
Sync System	Internal
Recommended Illumination	100 to 100,000 lux
Min. Illumination	1.5 lx (F1.8/50 IRE) 0.10 lx (F1.8) @ 1/3 s
S/N Ratio:	50 dB or more
Elektronic Shutter Speed:	1/1 to 1/10000 s, 22 steps
White Balance	Auto, ATW, Indoor, Outdoor, One-Push WB , Manual WB
Gain	Auto / Manual (-3 to 28 dB, 2 dB steps)
AE Control	Auto, Manual, Priority mode, Bright, Exposure compensation, Back Light compensation
EV Compensation	-10.5 to +10.5 dB (1.5 dB steps)
Focusing System	Auto (Sensitivity: Normal, Low), One-Push Af, Manual, Infinity AF, Interval AF, Zoom Trigger AF
Picture Effects	Negative/Positive Reversal, White
Camera Operation Switch	Zoom tele, Zoom wide
Serial Interface	VISCA protocol (TTL/RS-232C signal level), 9.6 kbps, 19.2 kbps, 38.4 kbps, Stop bit 1/2 bit (switchable)
Video Output	VBS: 1.0 Vp-p (Sync. negative) Y/C-Output
Storage Temperature / Humidity	-20 to 60 °C (-4°F to 140°F) / 20 to 95%
Operating Temperature / Humidity	0 to +50 °C (32°F to 122°F) / 20 to 80%
Power Requirements / Power Consumption	8 to 12V DC /1.8W (inactive motors), 2.1W (active motors)
Weight	approx. 95g (3.4 oz)
Dimensions	39.3(W) x 44.8(H) x 65 (D) mm (1 9/16 x 1 1/13 x 2 5/8 inches)

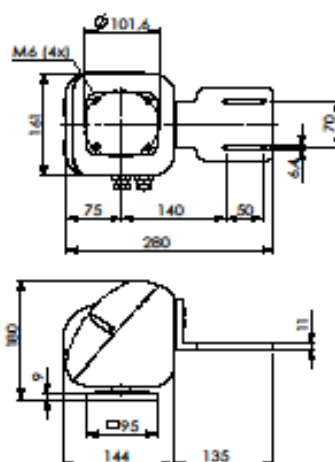
The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 10. February 2000. Index: 02



pan&tilt unit

data sheet

Type	FL10 (pan&tilt unit for camera housing series CH-RT)
Material	cast aluminium
Surface	powder coated RAL 9002 (light grey)
IP protection class	IP67
Operating temperature	-25°C to 70°C
Weight	3.5 kg
Load capacity	12 kg
Voltage	230VAC/0.06A or 24VAC/0.6A
Power consumption	14W
Control system	electrical, BUS-system, RS232
Connecting cable	3m, other upon request
Cable glands	2 x PG11
Horizontal rotation and speed	360° - 6°/sec
Vertical rotation and speed	360° - 3°/sec
EMC	construction acc. EN 55022 and EN 55024
Vibration	1.4G (in use) tested acc. IEC-publication 60068-2-6
Upon request	heater and special surface colour

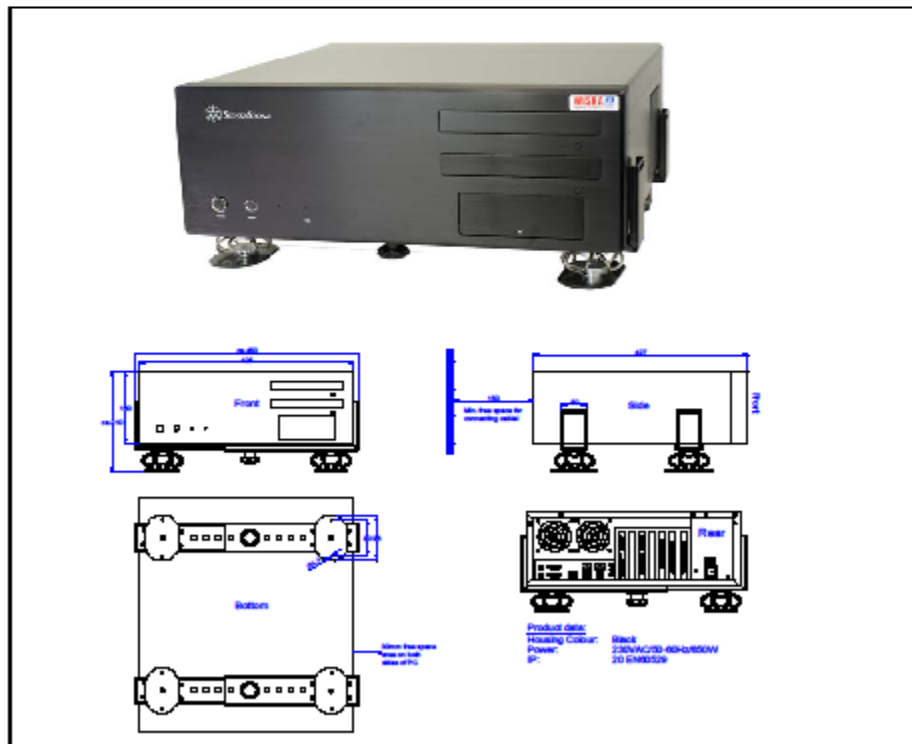


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alteration. Date: 20. February 2008/revision: 02

COM4SHIP II

data sheet

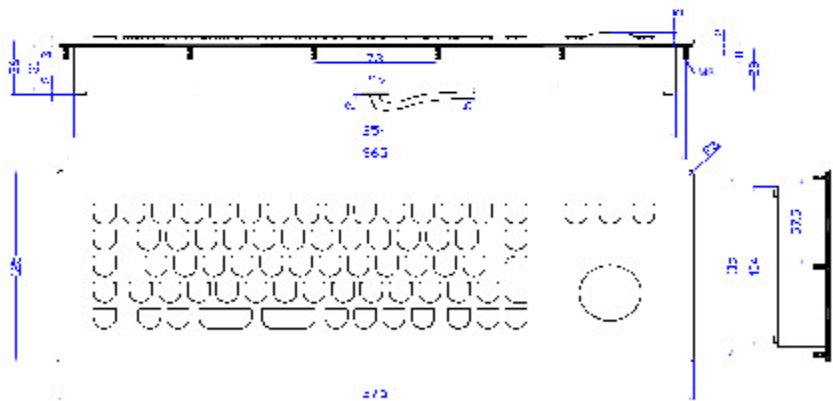
Type	WISKA COM4SHIP II (server/client) acc. Germanischer Lloyd regulations, class 1 requirements
IP protection class	IP 20 acc. EN 60529
Operating temperature	5°C to 55°C
Weight	approx. 11 kg (Anti-Vibration-Kit type AVK-02 included)
Operating voltage	230VAC, 50-60Hz
Operating system	WINDOWS 7, 32-bit
Vibration	0.7G tested acc. IEC-publication 60068-2-6
EMC	tested acc. EN 55022 and EN 55024
Language	English, other upon request
Power supply	850W PFC
Case	Desktop housing (suitable for Rack mounting with AVK-02)
Motherboard	premium class
Main memory	min. brand 2GB DDR2, other upon request
CPU	Intel Core 2 Quad, other upon request
Image/Video recording	HDD: Solid State Disc (SSD), min. 80GB Backup: CD-RW (standard), DVD-RW (upon request)
Interface (minimum)	2x PS/2, 6x USB 2.0, 2x RJ45, (Mainboard layout refers)
LAN	on board 100/1000 Mbits
Graphic card	included, type acc. to cctv-system requirements
Case colour	black, others upon request



The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 7. April 2011-Index: 01

Keyboard/Trackball comb. data sheet

Type	TKV-068 Console Mounted Keyboard and Trackball Combination
Keyboard	
IP protection class	IP 65 acc. EN 60529
Operating temperature	-40°C to 90°C
Dimension	392 x 150 x 35 mm
Ports	PS/2
Layout	US-Layout, others upon request
Keys	68
Keytechnology	Carbon Contact Keyswitches
Trackball	
IP protection class	IP 65 acc. EN 60529
Trackball Diameter	38mm
Housing, Keys and Trackball	Stainless Steel

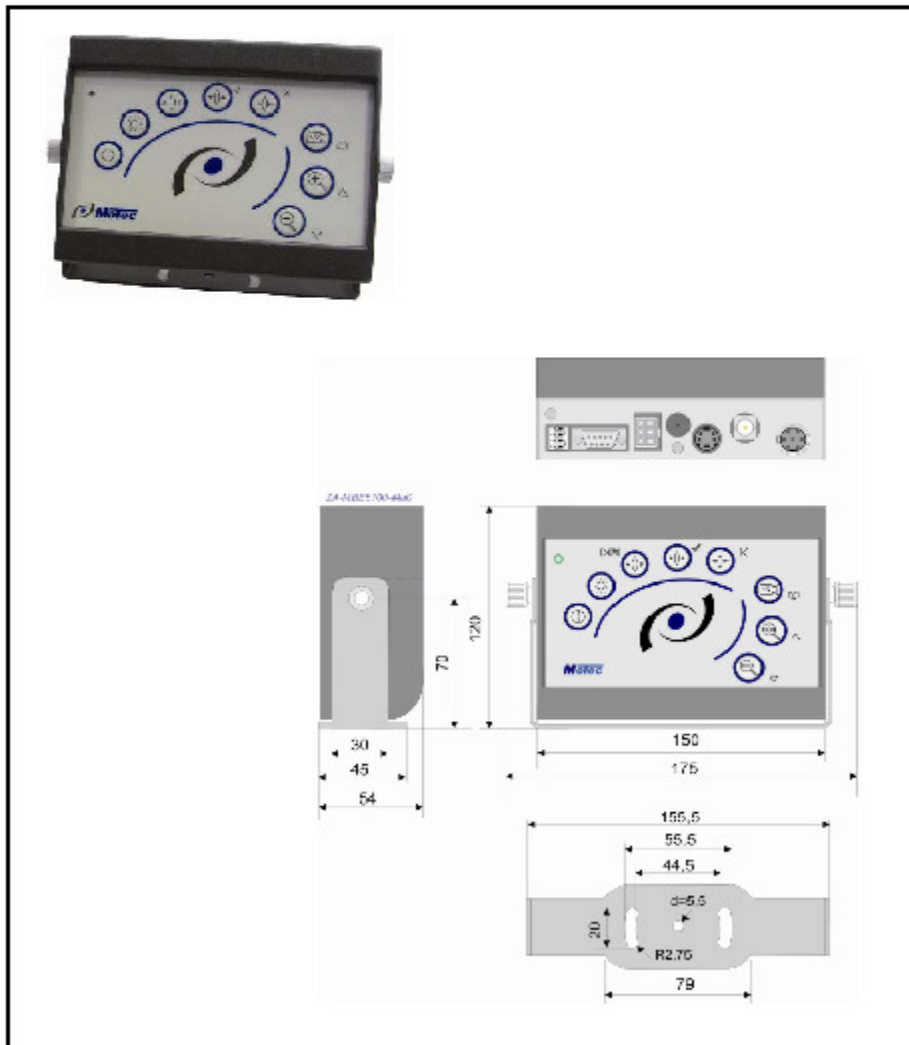


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date 05. June 2009-Index: 00

operating unit

data sheet

Type	MBE5100
Power Supply	24V DC - 500mA max.
Housing	Metal Casing Synthetic Surface
Protection Against	Reverse Polarity, Short Circuit
Dimensions (over all)	150x115x54mm
Weight	0,70kg
IP Protection Class	IP54 acc. EN60529
Operating Temperature	-30°C to 60°C
Additional option	Second Camera Input for Compact Camera MC3000 External Input for Zooming

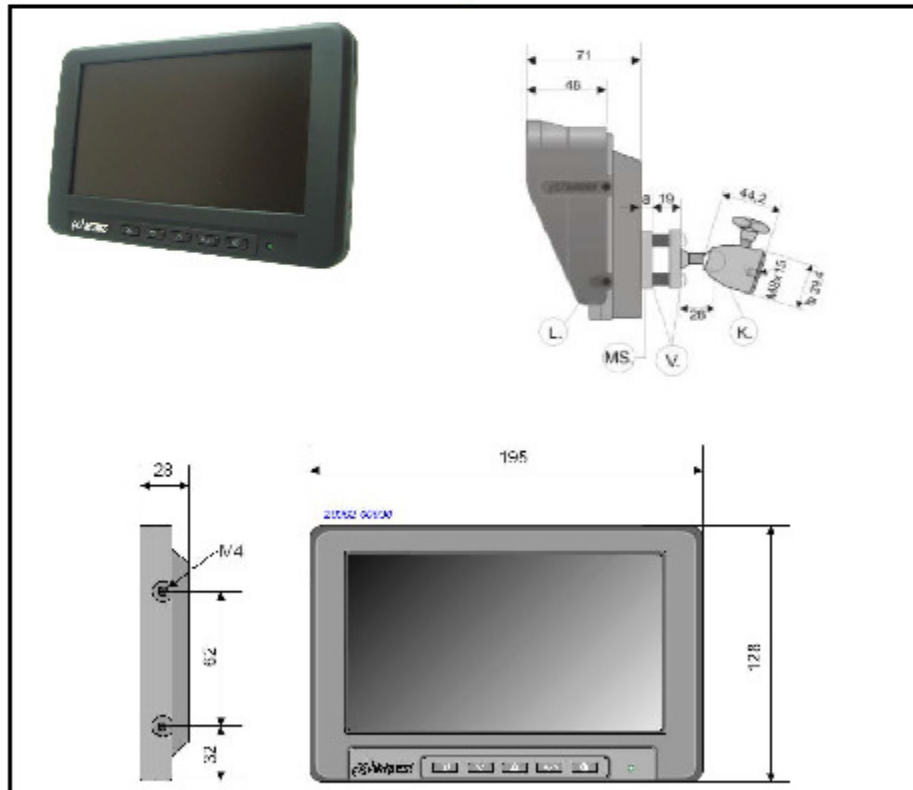


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 08. April 2009-Index: 00

tft-display

data sheet

Type	MD3070A
Power Supply	12V DC - 700mA max.
TFT Size	7" / 17,8cm (16:9)
Pixel	1440x234
Light Intensity	500cd/m²
Dimensions (over all)	195x128x28 (without sun protection cover)
Weight	0,38kg
Shock Resistance	5g
IP Protection Class	IP30 acc. EN60529
Video Input	1
Video Signal	FBAS
Video System	PAL & NTSC
Signal Input	1 App (30% Sync neg.) / 75 Ohm
Operating Temperature	-20°C to 80°C
Accessories	Sun Protection Cover (L) Ball Joint (K), Extension for Ball Joint Shock Absorber Kit (MS+V) Mounting Kit

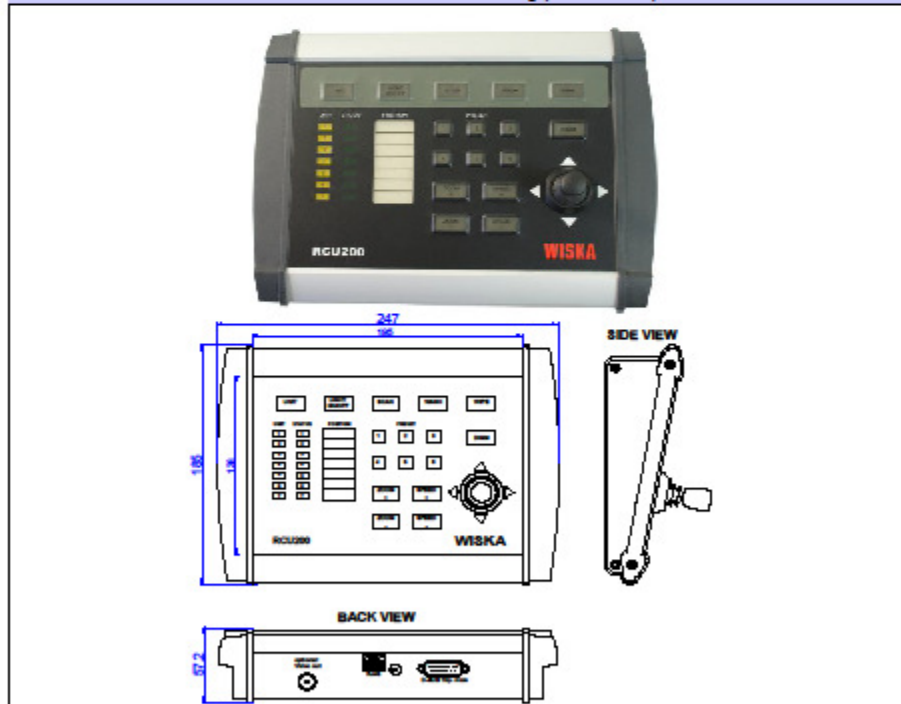


The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 08. April 2009-Index: 00

RCU200

data sheet

Type	Remote Control Unit (CCTV and/or Searchlights)
Material	Aluminium desk top housing, alternative console mounting
Weight	ca. 1 kg
Dimensions (over all)	(see below)
Surface	Copper laminated keypad membrane "Autotex"
Operating life	> 1 Mio.
IP protection class	IP 67 (keypad membrane only)
Operating temperature	-20°C to +70°C
Technology	Bus, VISCA PPP, RS485/422, Ethernet
Device to device connection via	Ethernet cable (up to 100m)
Joystick	Bi-directional 8-way
Control buttons:	Unit selection
	Light/Searchlight on/off
	Scan-mode
	Wash/Wipe
	Zoom
	Unit selection indicator
	Status indicator
	Indicator dimming (down to zero)



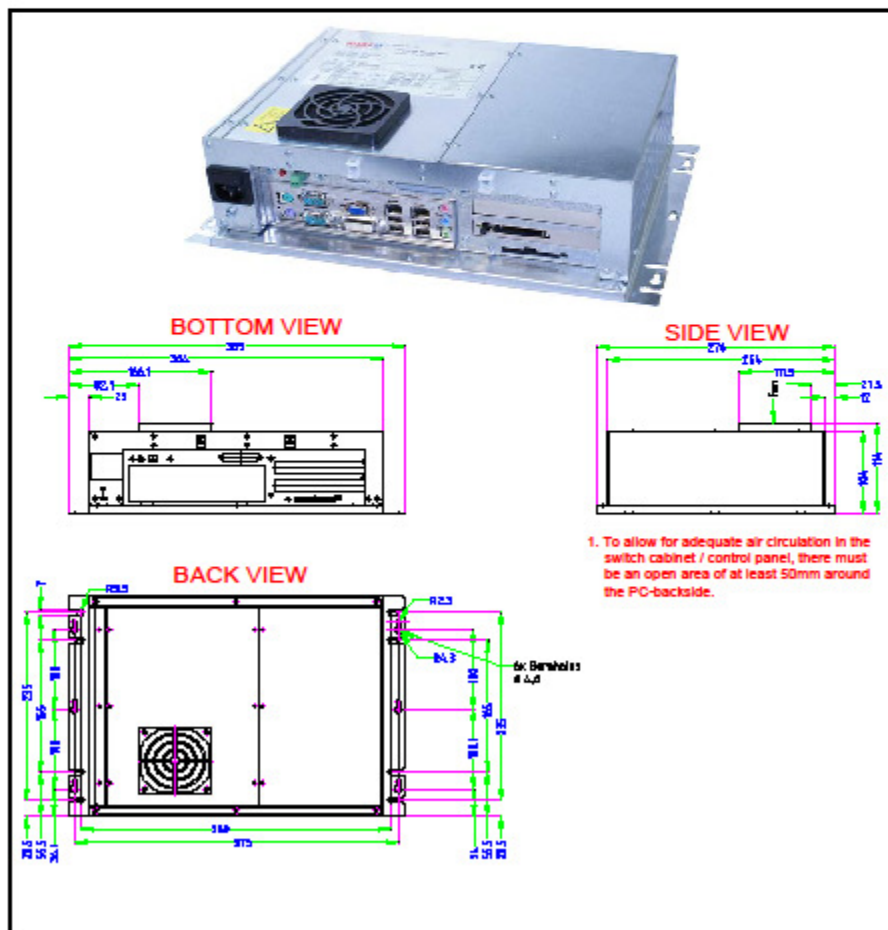
The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Date 17/December 2003/Issue 1

maritime-PC

data sheet

Type	WISKA maritime-PC (server/client)
Power Supply / Consumption	110-230VAC +/- 15% - 1A max. / max. 100W
Processor	Intel Core 2 Duo - min. 2,2 GHz
Slots	2x PCI
Ports	2x PS/2, 1x VGA, 2x RS232, 1x RS232/485
	1x Parallel, 2x Ethernet 10/100, 4x USB, external CFC
Memory	CFC16GB internal flash
RAM	min. 2048MB
OS	Windows XP Embedded english
Approval	IEC60945
Approved by	Germanischer Lloyd
Weight	5,5 kg
Dimensions (over all)	Length: 389 width: 276 height: 114mm
IP protection class	IP20 acc. EN 60529
Operating temperature	0°C to 55°C

The correctness of data has been made to the best of our knowledge and no responsibility is accepted. Subject to alterations. Date: 20. February 2009-Index: 02



maritime tft-monitor
data sheet

Type	WISKA maritime TFT (Thin Film Transistor) 17" / 19" / 21"		
Power Supply	110-230VAC +/- 15% - 1A max.		
TFT Size	17"	19"	21"
Pixel	1280x1024	1280x1024	1600x1200
Contrast Ration	600:1	1000:1	1000:1
Light Intensity	250cd/m²	250cd/m²	300cd/m²
View Angle	+/- 89°	+/- 89°	+/- 89°
Response Time	15ms	15ms	15ms
Dimensions A x B x C (over all)	430x390x81mm	483,2x444x81mm	534x481x80mm
Dimensions A x B x C (mounting)	395x363mm	434x412mm	498x441mm
Weight	7,5kg	10,0kg	15,0kg
User Controls	Power ON/OFF (push button), Brightness Control		
Port	USB 2.0 (behind hatch)		
Approval	EN 60945		
Approved by	Germanischer Lloyd		
IP protection class	IP54 acc. EN 60529 front side		
	IP20 acc. EN 60529 back side		
Option	Resistive Touch		
Operating temperature	0°C to 55°C		



maritime panel-pc

data sheet

Type	WISKA maritime panel-pc 17" / 19" / 21"
Power Supply / Consumption	110-230VAC +/- 15% - 1A max. / max. 100W
Processor	Intel Core 2 Duo - min. 2,2 GHz
Slots	2x PCI
Ports	2x PS/2, 1x VGA, 2x RS232, 1x RS232/485 1x Parallel, 2x Ethernet 10/100, 4x USB, external CFC
Memory	CFC16GB internal flash
RAM	min. 2048MB
OS	Windows XP Embedded english

TFT Size	17"	19"	21"
Pixel	1280x1024	1280x1024	1600x1200
Contrast Ratio	600:1	1000:1	1000:1
Light Intensity	250cd/m²	250cd/m²	300cd/m²
View Angle	+/- 89°	+/- 89°	+/- 89°
Response Time	15ms	15ms	15ms
Dimensions A x B x C (over all)	430x390x145mm	483,2x444x145mm	534x481x144mm
Dimensions A x B x C (mounting)	395x363mm	434x412mm	498x441mm
Weight	10,7Kg	13Kg	18,5Kg
User Controls	Power ON/OFF (push button), Brightness Control		
Approval	IEC 60945		
Approved by	Germanischer Lloyd		
IP protection class	IP65 (front), IP20 (rear) acc. IEC 60529		
Operating temperature	0°C to 55°C		

