Image Intensifier / Television System VISTALUX 7S2-CCD

No. 1.572.11.00.02



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General

The image intensifier television system VISTALUX is used as converter of X-rays into a standard video image. The conversion of the optical image at the output screen of the image intensifier into a video image is accomplished by a CCD camera. The radioscopic image is then displayed on a (b/w) television monitor.

The high technical standard of the monitor series BG 644 guarantees a reliable continuous operation even in case of thoughest application circumstances.

Futures

- Image Intensifier High deta
 - High detail resolution
 - Large image contrast
 - High radiation sensitivity
 - Low inherent filtration
 - Long life and high stability
 - Mechanically insensitive due to all-metal ceramic technology
- CCD Television Camera High quality image
 - Excellent modulation transfer funktion (MTF)
 - Long life and high stability
 - High resistance against electro-magnetic interference
 - Precise image geometry
 - Low lag and little sticking
- Industrial television monitor High detail resolution even into the corners of the picture
 - Overscanning / underscanning
 - Change-over of the constants for recording operation
 - 100Hz mode with respective video signal
- Produced under **ISO 9001** certified quality management system

A WORLDWIDE RESPONSE





Technical Data Image Intensifier

Tube Type	RBV 17-2 M (All-metal ceramic design)	
Nominal input diameter	170 mm (6.7") (IEC 520, DIN 6825)	
Useful input image	169 mm (6.6″)	
(Maximum diameter of object projection in the input plane of the I.I.housing at a focus-image intensifier distance of 1 m (39.4"))		

Input field with electronic zoom Diameter of output image	100 mm (3.94") (Magn. 1) 18,8 mm (0.74")	
Input window	0,8 mm (0.03")	Al
Operating temperature	+5 °C +35 °C	C
Typical image transfer characteristics		
	Normal	Magn. 1

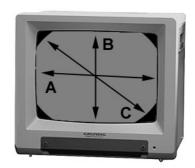
				5	
Entrance field size [mm	(")]		169 (6.6)	100 (3.94)	
Viewable input screen a	rea at the				
monitor screen in [mm (")] approx., horizontally (A)		y (A)	150 (5.9)	90 (3.54)	
	vertically	(B)	120 (4.7)	71 (2.8)	
	diagonal	(C)	165 (6.5)	104 (4.1)	
Visual minimum resolution (center)*					
image intensifier only **	[LP/mm]		5,4	6,2	
total system	[LP/mm]		2,0	2,8	
Conversion factor	<u>cd * s</u> m² * µGy		15	5,0	
	<u>cd * s</u> m ² * mR		130	44	

Weight

13 kg (28.6 lbs)

 * 100 μ m lead test directly at the input, radiation quality 60kV without filter

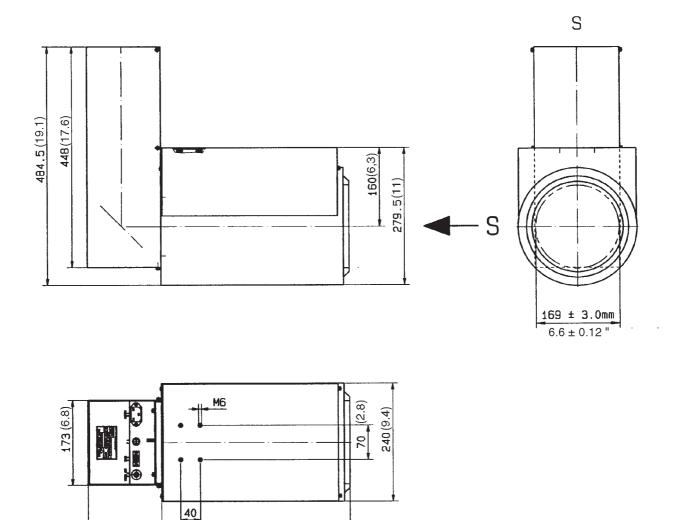
** Visual resolution is measured with a microscope at the image intensifier output directly. The resolution of the TV system is not reflected.



Technical Data CCD Camera Type TM-765-E

Pick-up device Picture elements of CCD Sensing area Lens mount Video signal Video output H/V resolution Operating temperature Interline transfer CCD 756 (H) x 581 (V) 8.8 mm x 6.6 mm (2/3") C mount CCIR 50Hz 1.0Vpp sync negative, 75 Ohm unbalanced 560 (TV) lines ; picture elements 739 H 0 - 40° C

Total weight of VISTALUX system (without monitor) approx. 26 kg (57.2 lbs)



532 (20.9) Dimensions VISTALUX 7S2-CCD

382 (15.0)

303 (11.9)

Technical Data Television Monitor Type BG 644

(1.6)

Screen size	44 cm (approx.17")
TV line standards	525 lines / 60 Hz
	625 lines / 50 Hz
Video inputs	2 x VBS signal
	0.5 to 1.4 Vpp pos. asymmetric at 75 Ohm
	terminal load switchable
	1 loop-through output per input
Synchronization	internal at video inputs $1/2$
	external via video input 2
	S signal 0.3 to 4 Vpp
	neg. at 75 Ohm or VBS signal
Operating temperature	+5 to +45° C
Power supply	115/230 V AC ±15 %, 50/60 Hz
Weight	approx. 14.5 kg (31.9 lbs)

Standard Delivery Scope

- X-ray image intensifier RBV17-2M (tube size 7")
- High resolution CCD television camera TM 765 E
- Camera holder for CCD camera
- Objective 35 mm with C-mount adapter
- Tandem optic with first surface mirror
- High quality RODENSTOCK- lens for the tandem optic
- Television monitor, B/W, 44 cm screen diagonal
- Coax / video cable, length 10 m, BNC / BNC

Options

- Mounting plate for image intensifier
- Monitor support, tiltable, to be mounted to radioscopic cabinet, incl. supporting frame
- Stand for monitor support
- Converter from 50 Hz video signal to 100 Hz video signal
- CCD camera, alternatively to the standard version:
 - CCD camera TM-745 E (60 Hz version)

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