Standard Delivery Scope

- X-ray image intensifier RBV33-4M (tube size 13")
- 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)

SEIFERT VISTALUX 13S4-CCD Image Intensifier / Television System



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.

Image Intensifier

- High detail resolution
- Large image contrast
- High radiation sensitivity
- Low inherent filtration
- Long life and high stability
- Mechanically insensitive due to allmetal 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

• Produced under ISO 9001 certified quality management system

GEInspectionTechnologies.com

X-ray



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

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

GE imagination at work



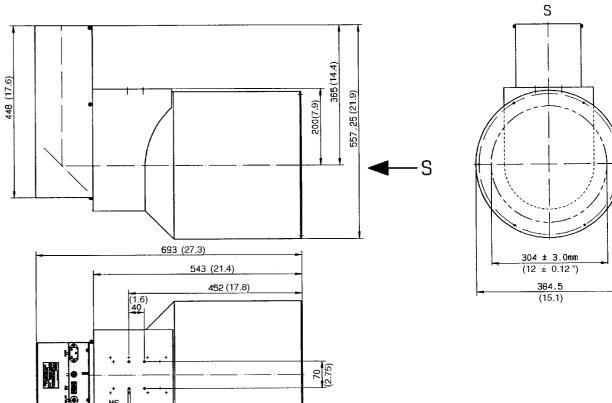
Technical Data

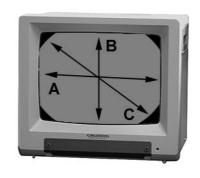
Image Intensifier Tube Type RBV 33-4 M (All-metal ceramic design) Nominal input diameter 330 mm (13.0") (IEC 520, DIN 6825) 304 mm (12.0") Useful input image (Maximum diameter of object projection in the input plane of the I.I.housing at a focus-image intensifier distance of 1 m (39.4")) 220 (8.7) / 170 (6.7) / 133 (5.2) (Magn. 1 / 2 / 3) Input field with electronic zoom [mm (inch)] 30 mm (1.2") Diameter of output image Input window AI +5 °C ... +40 °C Operating temperature Typical image transfer characteristics Normal Magn. 1 Magn. 2 304 (12.0) 220 (8.7) 170 (6.7) Entrance field size [mm (inch)] - + + 1-

Viewable input screen area	a at the monitor	screen				
in [mm (inch)] approx.,	horizontally	(A)	260 (10.2)	190 (7.5)	145 (5.7)	110 (4.3)
	vertically	(B)	215 (8.5)	155 (6.1)	120 (4.7)	95 (3.7)
	diagonal	(C)	300 (11.8)	220 (8.7)	170 (6.7)	130 (5.1)
Visual minimum resolutior	ı (center)*					
image intensifier only **	[LP/mm]		4,2	5,0	5,6	6,0
total system[LP/mm]		1,2	1,8	2,2	2,5
	<u>d*s</u>		35	16	10	6,0
	<u>d*s</u> *μGy		35	16	10	6,0

305

30 kg (66 lbs)





Magn. 3

133 (5.2)

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

<u>cd * s</u> m² * mR

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

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

Weight

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

139

Total weight of VISTALUX system (without monitor)

approx. 43 kg (94.6 lbs)

Television Monitor Type VM 4427-T / VM 4427-E

Screen size	44
TV line standards	525
	625
Video inputs	BN
	1 V
	terr
	1 lo
Operating temperature	+5
Power supply	100
Weight	app
	app

Dimensions VISTALUX 13S4-CCD

44 cm (approx.17") 25 lines / 60 Hz 25 lines / 50 Hz NC connector Vpp +/- 30% BAS, asymmetric at 75 Ohm rminal load switchable (75 Ohm / 1 kOhm) loop-through output to +50° C 00 V_{AC} - 250 V_{AC} oprox. 19 kg (41.8 lbs), desktop version VM 4427-T oprox. 17 kg (37.4 lbs), rack-mount version VM 4427-E