



VSLT 410 iTM

**Omnidirectional viewing system
remotely handled for applications
in nuclear cells**

**High Resolution
Colour 460TVL**

Radiation tolerance 200 Gy

**Low Light Sensitivity
2 Lux @ f/1.8**

10 x zoom (4.2mm to 42mm)

This system includes a VSLT 410 iTM Pan & Tilt unit, having a mechanical and electrical interface with a VS 870ZNi 2PTM zoom TV camera, and two VSE 45 NSi lights

The P/T unit, equipped with a remotely handled connector, and with a slip ring assembly, allows an unlimited pan rotation and a 355° tilt rotation.

The camera is installed on the pan & tilt by a telemanipulator arm thanks to an electro mechanical connection. This process avoids all jumping cables, and allows a fast and simple uncoupling in a case of a high dose rate exposure, and for its maintenance. It is also equipped with a device for a rear prehension.

The replacement of the electronic block of the camera, and of the light bulbs have been optimized for fast interventions in glove boxes.

This system is suited to the TV surveillance of operations inside nuclear cells.

It is power supplied and controlled, with only one "static" umbilical cable, by the VSR55-3UT control unit (19" x 3U rack) or is integrated within a telesurveillance network.



VSLT 410 iTM

VSLT 410 iTM Pan & Tilt Unit

Mechanical

Dimensions	OD: 122 mm Height (Excluding fixation plate) 241mm Length with camera cradle 264mm Weight 7.2Kg in air
Material	316L Stainless Steel
Watertightness	IP 66

Motorisation

Pan	Unlimited rotation CW & CCW Outlet torque 5Nm speed 1tn/mn
Tilt	355° rotation with limiter switch Outlet torque 8Nm speed 1tn/mn
Option	Sensor for angle feedback
Fixation	Supplied with a bottom fixation plate with torque absorber pins
Connectors	Remotely handled for the umbilical Electro mechanical for the camera

TV Camera VS 870 ZNi 2P TM

Electronic & Optical

Image Sensor	CCD 1/4" 437 000 pixels
Colour standard	PAL (NTSC optional)
Resolution	>460 TV lines
Sensitivity	2 lux at f/1.8
Lens	10 x zoom (4.2mm to 42mm) f/1.8
Angle of view	46° to 4.6° horizontal (in air)
Iris	Automatic
Focus	Automatic or remote control
Radiation Tolerance	200 Gy (2 x 10 ⁴ rads) Absorbed dose

Mechanical

Dimensions	OD 84mm Length 242mm with the rear prehension device Width 132mm with the lateral prehension device
Weight in air	3.35 Kg
Material	Housing in 316L Stainless Steel Porthole in polycarbonate
Watertightness	IP 66

Light VSE 45 NSi

Dimensions	OD 85 mm Length 45mm
Weight in air	100g
Material	Housing in 316L S/Steel Porthole in pyrex
Watertightness	IP 66
Power	24V 20W (35W option)
Connection	Internal with the camera

Control Unit VSR55-R3UT in 19" x 3U Rack

Controls all functions for P/T unit, camera & light(s)

Dimension	468(W)x460(D)x133.5(H)mm
Weight	18Kg
Power In	230Vac - 50Hz 300 VA
Video output	1Vcc - 75 ohms BNC socket



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