



Portable Video Unit PVU

Viewing System for Visual Monitoring of GIS, Hybrid Switchgear, GCB and Generator.



Photo: PVU
(Cameras are not included in the scope of delivery)

Kappa is your most experienced partner for switchgear camera systems for power grids. Our rugged cameras for safe monitoring provide visual assurance of switch positions and thus contribute to minimizing risks to personnel. These field-proven camera systems fit all substation viewports, on medium- and high-voltage, gas- and air-insulated switchgear, hybrid switchgear, GCB, and generator.

The PVU for SGC-Analog (Switchgear Camera Analog) allows the network-independent operation. Three cameras for three phases can be connected at the same time and the camera image can be chosen via a selection switch. The large, sharp monitor allows the flawless recognition of the switch position. Commercially available lithium-ion cells power the unit for a power-independent operation up to 5 hours and the built-in charger keeps additional cells ready for extended operating time. The PVU can also be powered by a standard 110 V AC power outlet or a 12 V DC power outlet.

Case

Dimensions	exterior 52.4 x 42.8 x 20.6 cm (20.62" x 16.87" x 8.12") interior 46.8 x 35.5 x 19.3 cm (18.43" x 14.00" x 7.62")
Weight	Approx. 7 kg (15.4 pounds) including monitor, charger and battery
Color	black

Monitor

Diagonal size	23 cm (10 inch)
Resolutions	Native resolution 1920 x 1200 Supported resolutions 1920 x 1200 (max)
Pixels per inch	226 ppi
Brightness	400 cd/m ²
Contrast	600:1
Viewing angle	178° horizontal, 178° vertical
System	NTSC (PAL/SECAM)
Aspect ratio	4:3 (16:9 native)
Consumption	~8 W
Auto On	Automatically powers on when monitor receives current or a signal

Charger

Battery type charging	Li-ion 18650 Up to 1.5 A (battery depending) (0.375 Ax4)
Protection polarity	Reverse polarity protection
Protection temperature	Temperature control to prevent overheat

General Data

Battery type	4x Li-ion 18650 - without protective circuit (+4 spare, batteries not included).
Operating hours	Approx. 5 h
Auto off	10 min

Environmental Specifications

IP rating (closed case)	IP67, NEMA 6
IEEE	IEEE Std C37.20.9.2019
Temperature	Operation -20°C to 65°C (-4°F to 149°F), Storage -25°C to 70°C (-13°F to 158°F)

Interfaces

Camera	3 x XLR Video
Power Supply DC	DC 12V
Power Supply AC	AC 100~240V 50/60Hz

We are constantly checking the accuracy of the technical data. We are prepared to provide more detailed information on request. Technical data are subject to change without notice!

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