

# VS23645T Monochrome Quad Observation System

## INITIAL TECHNICAL DATA

- **EventReplay® Digitally Stores and Plays Back**
- **Built-in Real-time Quad with On-screen Time/Date Display**
- **1/3-inch format CCD Camera with 4 mm Lens**
- **Camera includes built-in Microphone and Alarm input connection**
- **Excellent Sensitivity and High Picture Quality**
- **23 m (75 ft) Cable with Connectors and Mounting Bracket Included**



Philips monochrome observation systems provide cost-effective, basic surveillance solutions for small and medium- sized businesses. High quality audio and video with flexible, easy-to-install systems and accessories makes Philips monochrome observation systems the best observation and security value available.

The Philips VS23645T Monochrome Quad Observation System incorporates all these high quality features. It has a built-in real-time quad with on-screen time and date displays. Also available, for the first time anywhere, is the Philips EventRelay® which is a patented quad technology designed to digitally store and replay video of a triggered event, including several seconds before and after the activated event.

It's easy to connect Time Lapse Recorders, slave monitors, and other

external equipment via connectors on the rear of the monitor.

An "Action" button allows activation of doorstrikes or other equipment from the system, and with the "Power Save" feature, the monitor automatically "pops up" from power save mode if an alarm or other device is triggered.

The system includes a compact 1/3-inch format CCD high quality monochrome camera with 4mm lens. The camera incorporates a built-in microphone and standard alarm input terminal screw connectors for connecting external sensors. The cameras can be placed up to 900 feet from the monitor with no image distortion. The included camera has a light sensitivity of <0.1 lux ensuring good picture quality in all light conditions.

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Included with the system is a 23 m (75 ft) 4-wire twisted pair cable with RJ11 connectors. A camera mounting bracket is also included with the system.

Additional accessories are available to enhance the system. These include: Intercom box featuring a doorbell and two-way speech; Interface box for connection of composite video (CVBS) cameras, second VCR or TV receiver; Cable Extension box to extend distance between camera and monitor up to 1800 ft; Action box for connection of additional equipment such as a door opener; Slave monitors - up to three slave monitors can be connected via RJ11.

## SPECIFICATIONS

### VS23645T Quad System Monitor

**Display Tube:** 31 cm (12 inch); 28 cm (11 inch) viewing diagonal.

**Resolution:** >500 TVL.

**TV Standard:** EIA, 60 Hz.

**Camera Inputs:** 4 (system interface, 1 Vpp, 75 Ohm).

**Slave Monitor Output:** 1 (system interface).

**Audio:** One-way, two-way prepared, 0.5 Vpp, 10 kOhm.

**Microphone:** Built-in, Electret.

**Alarm Output:** 24 VDC, 2 A contact rating.

#### Controls:

- Power switch
- Talk
- Volume
- Brightness
- Contrast
- Action
- Freeze
- VCR Playback
- Camera selection

#### Connectors:

- System: RJ11E modular.
- Alarm output: 3 pole screw block.
- Next camera input: 2 pole screw block.
- Video input/output: Cinch.
- Audio input/output: Cinch.

**System Cable:** 75 ft - 4-wire dual twisted pair.

**Power Requirements:** 100 - 240 VAC, 50/60 Hz.  
28 W max.

**Camera Power Supply:** 24 VDC, short-circuit protected.

**Dimensions:** 320 W x 317.5 H x 317.5 D mm (12.6 x 12.5 x 12.5 inch).

**Weight:** 6 kg (13.31 lbs).

#### Temperature:

Operating: +10°C to +45°C (+50°F to +113°F).  
Storage: -25°C to +70°C (-13°F to +158°F).

### VC86775T 4 mm Monochrome Camera

**Imager:** CCD, 1/3 inch format.

**Active Picture Elements:** 512 H x 492 V (EIA).

**Resolution:** >380 TVL.

**Signal-to-noise:** >48 dB.

**Light sensitivity:** 0.1 lux (minimal acceptable picture).  
0.2 lux (50 I.R.E. 100% scene reflection).

**Microphone:** Built-in Electret.

**Lens:** 4 mm, F1.2.

**Lens Viewing Angle:** 64° (H) x 50° (V).

**Lens Mount:** CS-mount.

**Mount:** 1/4-inch 20 UNC.

**Connector:** RJ11E modular.

**Power Supply:** 9.6 - 27 VDC (via system cable).

**Dimensions:** 71.1 W x 71.1 H x 63.5 D mm (2.8 x 2.8 x 2.5 inch) including lens.

**Weight:** 136 g (4.6 oz).

#### Temperature:

Operating: -20°C to +45°C (-4°F to +113°F).  
Storage: -25°C to +70°C (-13°F to +158°F).

### Accessories

Extends system functions to match specific applications.

### VSS2901/00 Intercom Box

Extends the standard one-way audio facility from the camera's built-in microphone to a full two-way intercom function. Connects in series with the connecting wire for each camera. Includes built-in speaker and microphone. Call button alerts operator at system monitor. Requires only 1 W maximum from 24 VDC system cable.

**Call Button:** Push type.

**Audio Output Power:** 160 mW maximum.

**System I/O:** RJ 11 modular "telephone" sockets.

**System Cable:** Requires 4-wire twisted pair cable (not included).

**Dimensions:** 73.7 W x 111.8 H x 38.1 D mm (2.9 x 4.4 x 1.5 in).

**Weight:** 0.14 kg (0.3 lb).

#### Temperature:

Operating: -20 °C to +55 °C (-4 °F to +131 °F).  
Storage: -25 °C to +70 °C (-13 °F to +158 °F).

## VSS29039T Camera Interface Box

Provides connection for cameras with any standard CVBS (Composite Video Baseband Signal) output signal (BNC connector). Will interface with RF output cameras. Power must be supplied to the camera when using a CVBS output camera. Requires only 3 W maximum from 24 VDC system cable.

**Mode Switch:** VBS/RF.

### Inputs:

System cable/Auxiliary audio input (Cinch, 0.5 Vpp, 10 kOhm).  
Auxiliary video input (BNC, 1 Vpp, 75 ohm).

### Outputs:

System cable/Auxiliary audio output (Cinch, 0.5 Vpp, 10 kOhm) from system input.  
Video output (BNC, 1 Vpp, 75 ohm) from system input.

**Cable Length:** 10 m (30 ft).

**System I/O:** RJ11E modular.

**System Cable:** Requires 4-wire twisted pair cable (not supplied).

**Dimensions:** 119.4 W x 78.7 H x 40.6 D mm (4.7 x 3.1 x 1.6 inch).

**Weight:** 170 g (6 oz).

### Temperature:

Operating: +10°C to +45°C (+50°F+113°F).  
Storage: -25°C to +70°C (-13°F+158°F).

## VSS2904/05 Cable Extension Adapter

Allows cable between the camera and monitor to be extended from 180 m (75 ft) up to 350 m (1800 ft). Powered by included mains adapter.

**Cable Length Compensation:** 9 position switch.

**System I/O:** RJ11E modular.

**System Cable:** Requires 4-wire twisted pair cable (not included).

**Power Requirement:** 24 VDC (from mains adapter).

**Dimensions:** 94 W x 58.4 H x 43.1 D mm (3.7 x 2.3 x 1.7 inch).

**Weight:** 100 g (3.5 oz).

### Temperature:

Operating: -20 °C to +55 °C (-4 °F to +131 °F).  
Storage: -25 °C to +70 °C (-13 °F to +158 °F).

## VSS2905/00 Action Relay Box

Provides normally open (NO) or normally closed (NC) relay contacts for devices such as door openers, locks or other peripheral equipment. Operation can be triggered by action button on monitor for the selected camera line. Like the alarm and intercom boxes, the Action Relay Box connects in series with the connecting wire for one or more cameras. Requires only 0.5 W maximum from 24 VDC system cable.

**Action Relay Output:** (1) 3 Pole Screw Block.

### Max. Switching (Amperes/Volts):

AC: 10 A/125 V, 6 A/50 V.  
DC: 5 A/30 V.

**System I/O:** RJ11E modular.

**System Cable:** Requires 4-wire twisted pair cable (not included).

**Dimensions:** 94 W x 58.4 H x 43.1 D mm (3.7 x 2.3 x 1.7 inch).

**Weight:** 100 g (3.5 oz).

### Temperature:

Operating: -20 °C to +55 °C (-4 °F to +131 °F).  
Storage: -25 °C to +70 °C (-13 °F to +158 °F).

## VS44605T Slave Monitor

**Display Tube:** 31 cm (12 inch); 28 cm (11 inch) viewing diagonal.

**Resolution:** >800 TVL.

**TV Standard:** EIA, 60 Hz.

**System Cable:** 75 ft - 4-wire dual twisted pair.

**Power Requirements:** 120 VAC, 50/60 Hz. 27 W max.

**Video Input/Output:** 0.5 to 2.0 Vpp composite, sync. negative.

**Impedance:** High (>10 kOhms)/75 Ohms switchable.

**Dimensions:** 387.3 W x 368.3 H x 406.4 D mm (15.25 x 14.5 x 16 inch).

**Weight:** 7.2 kg (16 lbs).

### Temperature:

Operating: +10°C to +45°C (+50°F+113°F).  
Storage: -25°C to +70°C (-13°F+158°F).

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