

VS88/VS88A Desktop Video Switchers

1 Models

Model No.	Video Inputs	Video Outputs	Alarms
VS88	8	2 - Main & Spot	No
VS88A	8	2 - Main & Spot	Yes

2 Specifications

Video

- Camera Inputs 8 75 Ω No DC offset. (Internal jumper allows removal of 75 Ω termination)
- Format Composite video 75 Ω 1V_{pk-pk}
- Connectors BNC

Power

- Supply Requirements 12V +/- 10% <2W
- Connector DC Socket 2.1mm (centre +)

Power Adapter

- Input 230V AC +/-10% 50Hz
- Output 12V DC @ 300mA unregulated class II.

Dimensions (mm)

- L x W x H 255 x 150 x 40

Alarms

- Alarm Inputs NO or NC contacts, set by link in 26 way 'D' connector. Max. contact resistance 100 Ω
- Audible Alarm May be silenced by link in 26 way 'D' connector.
- Contact Relay Single pole changeover, voltage free contacts, Max. Ratings: 24V 200mA 2W.

3 SAFETY

Please read these instructions carefully and keep them for future reference. Any queries should be furthered to Nortek technical support on +44 (0) 1260 276 409.

WARNING ! • This unit should only be installed by qualified personnel.

Power Supply

- The provided power supply unit (Class II double insulated/Isolated) should be used to power the unit.

Requirements

- The unit should be used within the boundaries of its specifications.
- The unit's environment must be dry and dust-free.
- Shield from direct sunlight and keep away from sources of intense heat.
- Avoid humid conditions.
- Ensure free ventilation.

Hazards

Remove power from the unit and refer to authorised service personnel in the event of any of the following:

- liquid is spilled onto the unit
- the unit is damaged in any way

4 Electromagnetic Compatibility (EMC)

This product is intended for use in residential, commercial or light industrial EMC environments.

Warning! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Manufacturer's Declaration Of Conformance

The manufacturer declares that this product is compliant with EC Directives 89/336/EEC and LVD 73/23 EEC, relating to the following standards:

- EN50081-1 (EN55014, EN55022) for emissions
- EN50082-1 (IEC801-2, IEC801-3, IEC801-4) for immunity
- EN60950 for electrical equipment safety

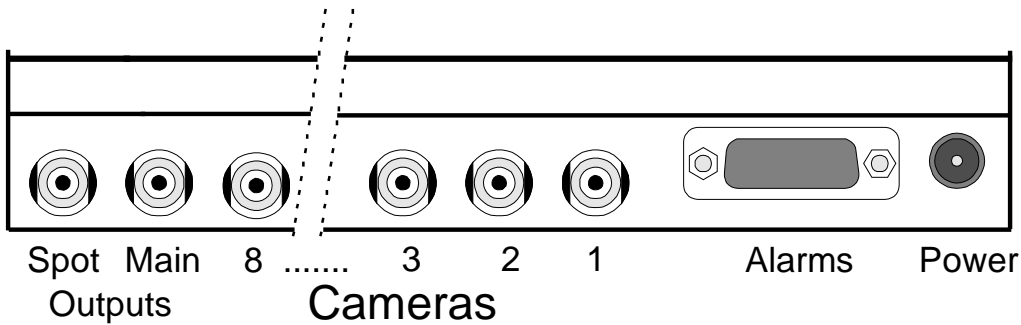
Subject to the following conditions:

- the installer must observe the recommendations contained within this document

5 Connections

Video

The camera inputs and monitor/VCR outputs are shown below (viewed from rear).



Alarms

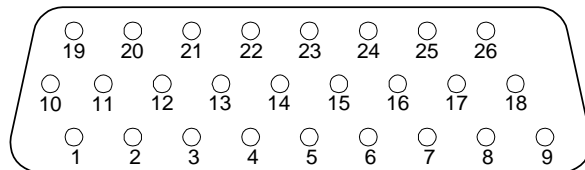
Alarm and contact relay connections are made to the 26-way 'D' connector. Pin positions are shown below (viewed from rear of unit, or inside connector). Alarm contacts are connected between the required alarm input and any 0V/ground pin.

There are also three alarm options that may be set within the 26 way 'D' connector. Connect the required option pin to any of the 0V/ground pins to select the option. The options are as follows:

1. Return to auto-sequence inhibit - Stops switcher returning to auto-sequence after an alarm condition.
2. Alarms normally open - Sets all alarm inputs to normally open.
3. Sounder inhibit - Silences the audible alarm.

Alarm connector

pin	Description/Function
1	Camera 1 alarm
2	Camera 2 alarm
3	Camera 3 alarm
4	Camera 4 alarm
5	Camera 5 alarm
6	Camera 6 alarm
7	Camera 7 alarm
8	Camera 8 alarm
9-17	0V/Ground
18	Relay NC
19	0V/Ground
20	Option 1 (Return to auto-sequence inhibit)
21	0V/Ground
22	Option 2 (Alarms normally open)
23	0V/Ground
24	Option 3 (Sounder Inhibit)
25	Relay NO
26	Relay Common



View of socket/View from rear of connector

When normally closed alarms are selected, unused alarm inputs should be connected to 0V.

6 Removing Terminations

To 'loop-through' the switcher, the 75Ω terminations for each camera must be removed by removing jumpers inside the unit, and the 'stub' from any 'T' connection should be kept as short as possible. To remove the jumpers, open the switcher by inverting it and removing all six screws. Lift the front edge of the front panel, (the edge closest to the buttons) away from the box, and remove. The jumpers are on the pin headers found next to camera inputs.