



MP-B4 / 8 MP-C4 / 8 USER MANUAL

What have you bought

The multiplexers are devices for the control of more cameras. First of all they allow you to display on one monitor or TV cameras 4/8, dividend the screens in 4/8 quadrants. In second place they can be connected to a VCR Time-lapse is record all cameras so independent, such as onsite many VCRs.

Product Composition

- The product includes:
- ▶ Multiplexer
 - ▶ Power supply 220 VAC / 12 VAC ATTENTION !!! Power supply in alternating current, not to be used with other DSE products.
 - ▶ 15 PIN connector for alarm connector.

Installation and wiring

- ▶ Connect the power supply through the power supply 220VAC 12VAC provided. The product accepts power from 12 to 24V with either direct or alternating current.
- ▶ Connect the monitor or TV to the MONITOR OUT (BNC terminals) present on the rear side. If you use a TV with only outlets

SCART will need a SCART / RCA adapter there connection. Also available in shops of electronic or directly from DSE, the adapters RCA / BNC to combine the different pairs.

- ▶ Connect the video recorder, if present, and the output VCR In VCR OUT. IN VCR must be connected to the video output of the VCR, OUT VCR must be connected to the video input of the video recorder.

- ▶ Connect the cameras (1 to 4 or from 1 to 8) to the VIDEO IN inputs (BNC connectors).

commands

On the front of the quad are present, the following commands:

- ▶ **POWER.** Turns on and off the equipment

- ▶ **MENU.** Pressing this button is displayed on the screen menu of configuration.

At the same time light up LED 7 on the keyboard to indicate the buttons from use in programming device. The programming of the multiplexers is explained in the following paragraph. For now just know that you will return to normal operation by pressing the MENU button.

- ▶ **CAR.** Pressing this button starts the automatic scanning of the cameras that will be displayed in sequence. The sequence begins with the multiple vision of all cameras (4 or

8), and then of the quadrivisione first 4 cameras, and that of the second 4, if it comes to 8 inputs models. Then they are shown sequentially 4/8 full-screen cameras. Yes

stops scan by pressing a different button.

- ▶ **MULTI.** Pressing this button are displayed on the output monitor 4 cameras in quadrivisione. In case of the multiplexer 8 inputs by pressing once displays the view of all the cameras, by pressing is passed to quadrivisione of cameras and by pressing 1..4 5..8 still cameras.

- ▶ **1-2-3-4-5-6-7-8.** These buttons allow you to select a camera in full screen

- ▶ **PLAY.** Pressing this button decodes the video input of the video recorder. then press the button MULTIVISION Yes will see there playing more cameras together. Alternatively you can press the button a specific camera to see it reproduced in full screen.

- ▶ **FREEZE (only up to 8 inputs models)** Pressing this button freezes the image

screen. You restart the playback by pressing the button.

Connections

On the the multiplexer back are present, the following connectors:

- ▶ **ALARM.** You see section following.
- ▶ **MONITOR OUT.** Output for monitor displays images depending on what was selected using the keyboard (single room, multivision, polling).

- ▶ **VCR OUT.** Unlike output monitor, does not follow the keyboard commands and sends to the VCR the images multiplexed from all cameras. To be connected to the VIDEO IN of the VCR.

- ▶ **VCR IN.** From vico connected to the output OUT of the VCR.

- ▶ **IN1 ... IN8.** BNC connectors which connect the cameras video inputs

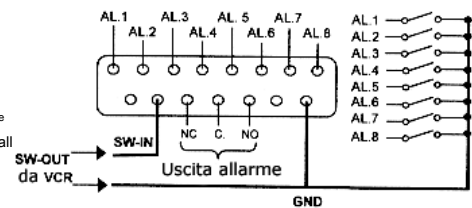
- ▶ **12VACDC** Connector of supply, ax feeding from 12 to 24V both in DC or AC. The power supply is provided to 12VAC.

- ▶ **GAIN (only B / W)** Adjusts the video input gain.

Alarms connector

It 'a 15-pin connector of computer type (D-SUB) to which is You can connect 4/8 alarm inputs, from any sensors

or contacts seats in correspondence of the cameras, and an alarm output capable of activating an external device. The connections are as follows. E 'provided a 15-pin connector to be brazed.



The alarm contacts can be programmed as normally open (NO) or normally closed (NC) as described later. The activation of an alarm contact generates the following actions:

- ▶ The corresponding camera is displayed full screen.

- ▶ It activates the (changeover relay) alarm output through which it is possible to activate, for example, an audible alarm. This output is capable of driving max. 1A at 24VDC.

SW IN can be connected to the VCR for SWOUT

commanded
if the it is preferred to automatic.

Programming

To program the multiplexer must first press the MENU button. Will appear in the first video of the programming menus and page LED on the keyboard will

indicate which
press buttons to operate the controls, the description of which is shown under the same button.

- ▶ **Next Page** go to the next menu page
- ▶ **Next item** It goes to the programming line following
- ▶ **+ / -** increases or decreases the selected value
- ▶ **Arrows** SX / DX for move between the columns.

Page 1 - Channels

There before screen of programming allows the setting for each input a name of the camera and a residence time during the cyclic scanning (DWEELL TIME). Move by pressing the buttons indicated above and set the current values. Then press NEXT PAGE to go to the next page.

Page 2 - Date / Time

The second page lets you set the parameters related to the date and time display. The parameters are as follows:

- ▶ **Date and Time** - to set via +/- moving with NEXT ITEM
- ▶ **FORMAT** - And 'the date format: DD-MM-YY (day month year) or MM-DD-YY (month, day, year).
- ▶ **LOCATION** - And 'the position of the date and time display. You can set it with +/-
- ▶ **TIMER MONITOR** - You can program ON or OFF. If inserted (ON) shows the date and time on the monitor.
- ▶ **VCR** - can be programmed ON or OFF. If inserted (ON) shows the date and time on images

sent to the video recorder.

- ▶ **TITLE MONITOR** - You can program ON or OFF. If inserted (ON) shows the camera name on the monitor.

Page 3 - Alarms

The third page is about the external alarm inputs. For each can be programmed:

- ▶ **STATUS** - Enables (ON) or Disable (OFF) the entry of alarm.

- ▶ **TYPE** - Allows you to program the input as normally closed (NC) or normally open (NO)
- ▶ **SENSOR** - Show the actual input.

Page 4 - Miscellaneous

The fourth page complete the available options:

- ▶ **REC TIME** Allows synchronize the multiplexer with the VCR choosing the recording speed, or the external input (SWIN).
- ▶ **ALARM REC** Same as above but in case of alarm in progress. DURAT ALARM - alarm duration is the period after which the alarm will auto reset.
- ▶ **ALARM BUZZER** - Scheduled to ON activates the buzzer for an alarm.
- ▶ **LOSS BUZZER** - Scheduled to ON activates the internal buzzer when video loss.
- ▶ **LOSS AL.OUT** - Scheduled on active ON if the alarm contact video loss.
- ▶ **SECURITY** - Programmed ON locks the control keyboard leaving active only the menu button, to prevent accidental manipulation.
- ▶ **RECORD DISP.** - Allows you to view the alarm memory (see below)

alarm Memory

You have to select RECORD DISP in the fourth programming page and press the button multivision (NEXT ITEM). It lists the last 50 alarms in memory. a code is present for each event:

- ▶ **A** - Alarm from external input V - Video loss alarm P - Turning
- ▶

Main technical data

video Format	Automatic recognition PAL or NTSC
Time to scan switcher	programmable from 1 to 99 seconds for each camera.
Alarm Duration	From 1 to 99 seconds
alarm Memory	Last 50 alarms
digital Memory	1024x512
Synchronization	It is not necessary to synchronize the cameras
VCR Synchronization	Automatic or controlled
Supply	From 12 to 24V AC / DC
Consumption	White / Black: 6W Color: 11W
Temperature Function.	from 0 to 50 ° C
dimensions	430x44x235 mm.