MQ
MQ-B1-C1
USER MANUAL

What have you bought

MQ-MQ-B1 and C1 are quads devices, commonly called QUAD. They need to allow the display of the

one
monitor or TV cameras 4, dividing the screen into four quadrants.

Product Composition

The product includes:

- A quad 4 channel
- Power supply 220 VAC / 12 VAC ATTENTION !!! Power supply in alternating current, not to be used with other DSE products.

- 9-pin connector for Alarm Connector

Installation and wiring

- food   the   by quad the power supply   220VAC   12VAC provided.
- Connect   the monitor or   the TV to the MONITOR OUT (BNC terminals) present on the rear side. If you use a TV with only 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, the output OUT VCR. This
Exit,   to   difference MONITOR OUT output does not follow the keyboard commands, but always provides
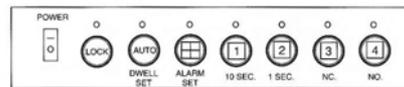vision Quad 4
quadrants.
- Connect cameras (1 to 4) to   VIDEO inputs IN1,2,3,4 (BNC).   The cameras can obviously also be less than 4.

White / Black and Color

As a rule a quad in white / black as MQ-B1 should be used for black / white cameras and a quad color, like the MQ-C1 type for color cameras. But if you were to mix b / w and color cameras keep in mind that:

- A quad Color can also handle cameras in black / white
- A quad B / W can also manage color cameras, but shows
colors   only in full-screen playback, while an image of B / N Nellla quadrivisione.

commands

On the front of the quad are present, from left to right, the following commands:

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

- **LOCK.**   Pressing   this button for 3 seconds will inhibit the keyboard controls to prevent accidental commands. Pressing for 3 seconds
the LOCK button
rehabilitates the keyboard.
- **CAR.**   Pressing this button starts the automatic scanning of the cameras that will be displayed in sequence. The sequence begins with the vision quad and continues with the cameras 1,2,3 and 4. The quad is able to automatically exclude from scanning unused inputs. It interrupts the scan by pressing a different button.

- **QUAD.**   Pressing   this button visulaizzano output monitor
4   cameras   in quadrivisione.
- **1-2-3-4.**   These   buttons allow   select one full screen camera

Connections

On the quad back are, from left to right,
the   following connectors:
- **ALARM.**   You see   section following.
- **MONITOR OUT.** Output for monitor displays images depending on what has been chosen

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via the keypad (single room, quadrivisione, cyclic scanning).

- **VCR OUT.**   Unlike output monitor, does not follow the keyboard commands and always displays an image quadrivisione. To be used for example for the VCR.
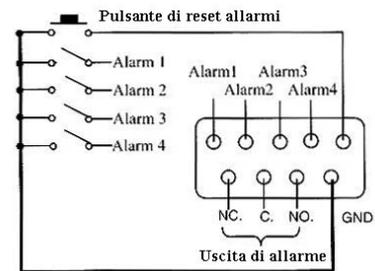
- **IN1, IN2, IN3, IN4.** BNC connectors which connect the video camera inputs

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

Alarms connector

It 'a 9-pin connector of computer type (D-SUB) to which
is
possible to connect 4 alarm inputs, from any sensors

or   contacts   seats   in correspondence of 4 cameras, and an alarm output capable of activating an external device. The connections are as follows. E 'provided a 9-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.

For   reset   the alarm must prepare a button as shown in the diagram.

programmable parameters

There   3   parameters programmable:
- **DWELL TIME** - The time of permanence of each camera during automatic scanning (3 seconds) factory

- **ALARM DURATION** - The weather of the generated alarm state duration from the activation of
a
alarm input. (10 seconds) Factory

- **OF ALARM INPUT TYPE (** of
factory contact NO).

Scan Time Adjustment

For regular the time to permanence of each camera during automatic scanning proceed as follows:

► Press the AUTO button for 3 seconds (the one that says DWELL SET) until its

LED it begins to flashing. They will turn on at this point even the LED 1 and 2.

► Set the new scan time. Pressing the button 1 it increases by 10 seconds, pressing the button 2 it increases by 1 second. For example,

for set 6 6 seconds, press the button repeatedly 2.

► Press the AUTO key to accept the new programming.

The time to scan programmable from 1 to 99 seconds.

Adjustment of the alarm inputs

To act on the parameters related to alarm inputs act as follows:

► to press the QUAD button (The one that says ALARM SET) for 3 seconds until the relevant LED flashes. They also light up the LEDs and 1.2

4.

► Pressing the button 1 increases duration time alarm 10 seconds.

► Pressing the 2 key increases duration time alarm than 1 second.

► Pressing the key 3 is define the inputs of alarm as normally closed, which then open in case of alarm.

► Pressing the 4 key define the inputs of alarm as normally open, then close in the event of an alarm.

Example: To program a 25 seconds of alarm time press 2 times the button 1 and 5 times the 2 key.

► Re-press QUAD button (ALARM SET) to confirm the programming.

The time of alarm is programmable from 1 to 99 seconds.

Main technical data

Supply	12V..24V AC or DC
alim connector.	cylindrical 5 mm.
Max consumption.	MQ-B1: 5W MQ-C1: 7W
Input video signal 1 Vp-p 75 Ohm) PAL or NTSC recognition	automatic.
video Inputs	4 BNC connectors
video Outputs	1 monitor and 1 always on vision quad (BNC)
Video output signal	1 Vp-p 75 Ohm
alarm inputs	4 (NO or NC contacts)
alarm outputs	1 (relay NO / NC) 1 A 24VDC
scan Time	1 ... 99 sec.
Alarm Time	1 ... 99 sec.
key lock	Yes
digital Memory	1024x512
Frames per second	25 frames per second PAL 30 frames per second NTSC (REAL TIME)
Synchronization of the cameras	Automatic. It is not required to synchronize the cameras.
dimensions	285x235x44 mm
Temperature	0 ... + 50 ° C
Rack Mounting	Yes
Weight	2.5 Kg ..

Back panel