

Multiview box II

Art no. 0405100

Multiview box II Serial

Art no. 0405110

Quad box II 4cam in 1 mon out

Art no. 0405300

Quad box II 1+3cam in 1 mon out

Art no. 0405310

User Manual

No. UM0972191 A 02

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English



Art no. 0405100



Art no. 0405110



Art no. 0405300/0405310

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Introduction

Check with Orlaco which language versions are available. This manual contains user instructions. Used photographs and illustrations give general information and may differ from the products you use.

Contact your Orlaco dealer if you have questions, additional information, or want to make changes that are not described in this manual.

All data subject to change without notice. All dimensions are for commercial purpose only. The camera/display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations, where applicable. All products are manufactured in accordance with the ISO 9001 quality management system, ISO/TS 16949 quality automotive, ISO 14001 environmental management systems, where applicable.



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For specifications see Data sheets

DS0963010-0405100 Multiview box II

DS0963020-0405110 Multiview box II Serial

DS0963080-0405300 Quad box II 4cam in 1 mon out

DS0963081-0405310 Quad box II 1+3cam in 1 mon out



Art no. 0405100



Art no. 0405110



Art no. 0405300/0405310

1. Introducing

This user manual describes the Orloco Multiview box II and Quadbox II. Those are video view systems for up to 4 cameras PAL or NTSC.

Note: Use only PAL or NTSC cameras. You can not connect both PAL and NTSC cameras in one system together.

There are many possibilities of different split views in 5 selectable video channels. After the easy installations you've got an advanced video viewing image for various camera-system configurations.

2. Quad Service menu

Please first refer to the Orloco Monitor User Manual for operating using and the external device configuration (Ext. device config) selection.

When the Ext. device config is selected you will see the Quad Service menu, see figure 1.

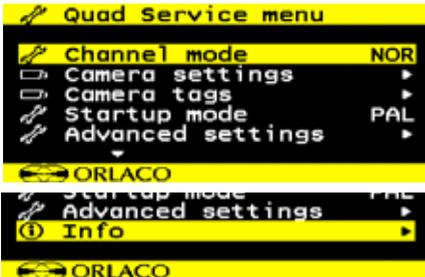


Figure 1

Note: To exit the Quad Service menu, press de Option button  for 3 seconds.

The 'Quad Service' menu offers the following possibilities: **Channel mode**, **Camera settings**, **Camera tags**, **Startup mode**, **Advanced settings** and **Info**. The following chapters will explain these possibilities.

3. Channel mode

The Orloco Quad has five camera channels. For the first four channels you can select a default image layout or a customer image (chapter 6) layout. Channel five is always the quad layout, see figure 3.

Refer to chapter 9 for a complete overview

Showing the channels: Press the camera button  to switch between the channels.

Please refer to chapter 7 'Advanced settings' for customize your channel mode.

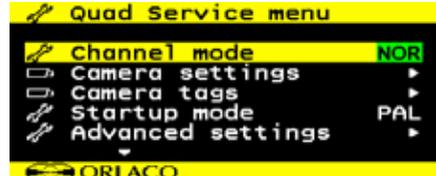
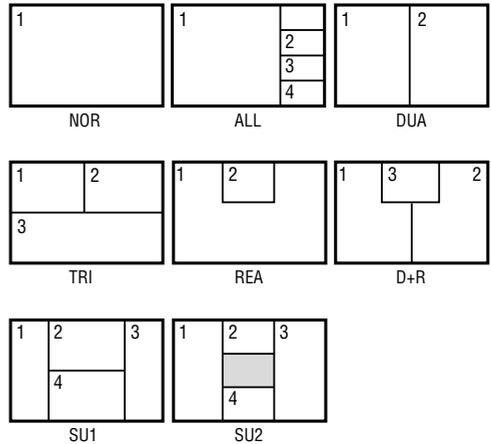


Figure 2

Choose how the camera views should be shown. See figure 3.

- NOR** NOR-mode: full view
- ALL** ALL-mode: all view
- DUA** DUA-mode: dual view
- TRI** TRI-mode: 1-2 top view
- REA** REA-mode: 3-1 bottom view
- D+R** D+R-mode: dual inset top view
- SU1** SU 1 mode: surround view 1
- SU2** SU 2 mode: surround view 2

Options for channel 1-4:



Default channel 5:

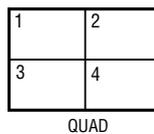


Figure 3

4. Camera settings

This section describes image, tag and marker options.

Note: The camera settings that have already been set from the monitor will be mixed by the camera settings which are set in the Multiview box II.

The 'Camera settings' menu offers the following possibilities for each camera (C1-C4), see figure 4.



Figure 4

Mirror

Enable this option to mirror the image (left/right)

Upside down

This option reverses the image (flips it upside down)

Tag hor. pos

Adjust the horizontal position of the tag. (adjustable between 0-100)

Tag ver. pos

Adjust the vertical position of the tag. (adjustable between 0-100)

Tag color

Select the color in which the tag should be shown; (Black, Blue, White, Yellow, Magenta, Red, Cyan and Green).



Figure 5

Hor. marker1

Enable this option to switch the marker on. The marker is displayed as a horizontal default green (color adjustable) line.

Marker pos.

Adjust the horizontal position of the marker. 0 is the top of the screen, 100 is the bottom of the screen.

Marker col.

Adjust the color of the marker. Adjustable options:

GRN: Green	BLU: Blue
MAG: Magenta	BLA: Black
RED: Red	WHI: White
YEL: Yellow	CYA: Cyan

Marker mix

Adjust the transparency of the marker. (adjustable options: 0-, 25-, 50- or 100%)

Hor. marker2

Enable this option to switch a second marker on. The marker is displayed as a horizontal default green (color adjustable) line.

The marker options are the same as the Hor. marker1.

Marker pos.

Adjust the horizontal position of the marker. 0 is the top of the screen, 100 is the bottom of the screen.



Figure 6

Marker col.

Adjust the color of the marker. Adjustable options:

GRN: Green	BLU: Blue
MAG: Magenta	BLA: Black
RED: Red	WHI: White
YEL: Yellow	CYA: Cyan

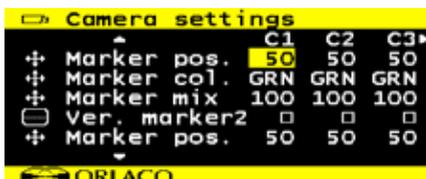


Figure 6a

Marker mix

Adjust the transparency of the marker.
(adjustable options: 0-, 25-, 50- or 100%)

Ver. marker1

Enable this option to switch the marker on. The marker is displayed as a vertical green (color adjustable) line.
The marker options are the same as the Hor. marker1.

Ver. marker2

Enable this option to switch a second vertical marker on. The marker is displayed as a green (color adjustable) line.
The marker options are the same as the Hor. marker2.

Brightness

Adjust the brightness of the image
(adjustable between 0-100)

Contrast

Adjust the contrast of the image.
(adjustable between 0-100)

Saturation

Adjust the saturation (color intensity) of the image.
(adjustable between 0-100)



Figure 7

5. Startup mode

Choose the default output video mode (PAL, NTSC) when no camera is attached. See figure 8.

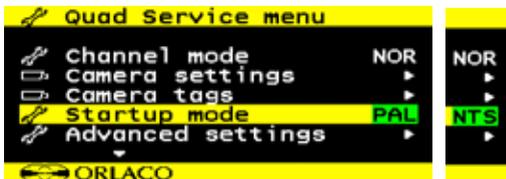


Figure 8

6. Camera tags

This section describes how to define the camera text-labels, see figure 9.



Figure 9



Figure 10

In this menu the text-labels for the camera inputs can be defined.

The number of the tags is depending on the camera switch option. (For more info please refer to the Orlaco Monitor User Manual.)

Select a camera and the option opens the camera tag editor menu. You can define each camera a name. (max. 6 characters), see figure 10

7. Advanced settings

Note: This option shows a menu of settings that rarely need adjustment and are better left to qualified technicians.

This chapter describes the advanced settings of language selection, factory default resetting, channel settings, Switchwire settings, Communication settings, Sequencer settings, Communications settings, OSD settings and boundary settings, see figures 11 and 12.

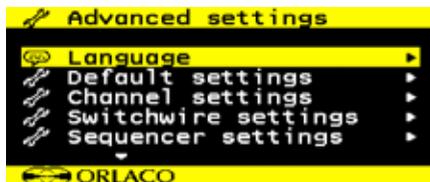


Figure 11

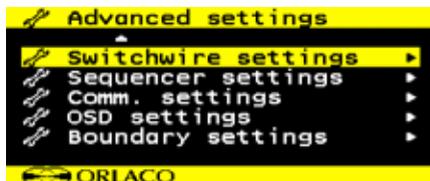


Figure 12

7.1. Language

This option opens the language selection menu. See figure 13. The selected language will be used for all OSD menus. The OSD menu is available in English, Dutch, German, French, Czech, Hungarian, Italian, Polish, Portuguese, Spanish, Turkish, Swedish, Finnish, Danish and Norwegian.



Figure 13

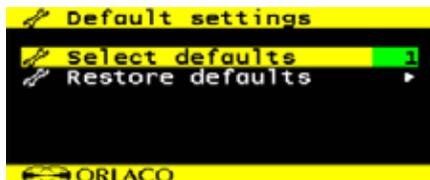


Figure 14

7.2. Default settings

Select defaults

See figure 14. This option opens the factory defaults menu. Choose the number of the desired factory settings (11 default settings, 1 = standard Orlando).

Restore defaults

See figure 14. If the option 'restore defaults' is selected, the factory settings will be reset. **Warning:** All user settings will be lost when factory defaults are reset.

7.3. Channel settings



Figure 15



Figure 16

The channel settings can be modified. Per channel (CH1-CH9) you can choose a window (W1-W4) and define per window which camera (C1-C4) is shown, see figures 15, 16.

W1 on/off

When enabled the window is displayed.

W1 Camera

Select here which camera (C1-C4) should be shown in this window.

W1 priority

Select the window priority, see figure 17.

LOW: lower window

NOR: middle window

HI: upper window

Note: There's only one priority high- and one priority low possible. Make sure that the priority normals do not overlap each other.

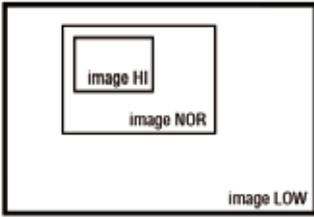


Figure 17

W1 size

Select the size of the window, see figure 18.

Adjustable options:

Fig. A. 1/1, 3/4, 2/3, 1/2, 1/3, 1/4, 1/5, 1/6, 3/4, 2/3, 1/2.

Fig. B. 34W, 23W, 12W, 13W, 14W, 15W, 16W.

Fig. C. 34H, 12H, 13H, 14H, 15H, 16H.

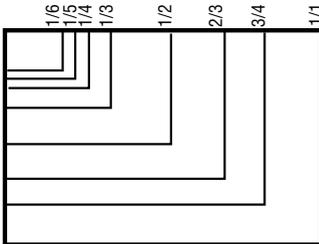


Figure 18A

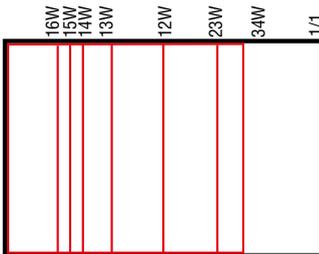


Figure 18B



Figure 18C

W1 hor. pos.

Determine the window top left horizontal position. (adjustable between 0-100)

W1 ver. pos.

Determine the window top left vertical position. (adjustable between 0-100)

7.4. Switchwire settings

See figure 19.

These settings are used in other (special) products from Orlaco and have no function in this configuration. Please do not change the settings.

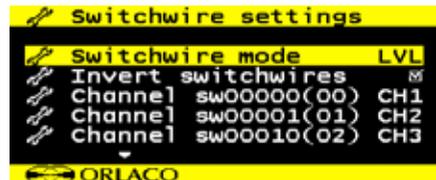


Figure 19

7.5. Sequencer settings

See figures 20, 21.

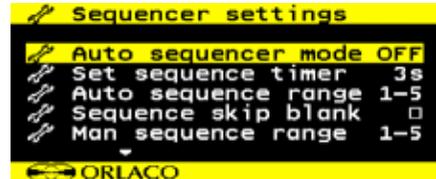


Figure 20

Auto sequencer mode; select how the sequencer will step through the channels when running in automatic mode. OFF/FWD(forward)/BWD(backward).

Set sequencer timer; Set the sequencer interval time from 0,5 to 5 seconds

Auto sequence range; Set the range of channels that the sequencer will use when in automatic mode. 1-2 to 1-9.

Sequence skip blank; When checked, the automatic sequencer will skip channels where the window 1 has no video signal.

Man sequence range; Set the range of channels that the sequencer will use when in manual mode. 1-2 to 1-9.

Sequence skip blank; when checked, the manual controlled sequencer will skip channels where the window 1 has no video signal

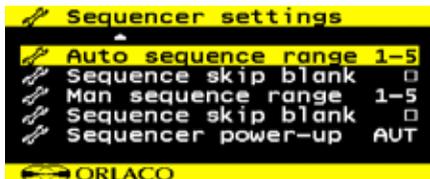


Figure 21

Sequencer power up; Select whether the sequencer starts in auto or manual mode after power-up.

Manual mode is only function in other (special) products from Orlaco and can not be selected in this configuration.

7.6. Comm. settings

See figure 22

These settings are for internal Orlaco use only and have no function with the orlaco Serial monitor. Please do not change the settings.



Figure 22

7.7. OSD settings

See figure 23

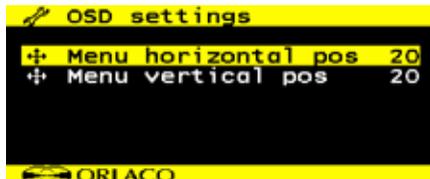


Figure 23

Menu horizontal pos

Adjust the horizontal position of the menu. 1 is left up and 16 is right up.

Menu vertical pos

Adjust the vertical position of the menu. 1 is top of screen and 8 is bottom.

7.8. Boundary settings

See figure 24

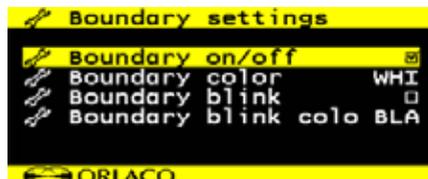


Figure 24

Boundary on/off;

Turn boundary around video channel on or off.

Boundary color;

Adjust the color of the boundary. Adjustable options:

GRN: Green	BLU: Blue
MAG: Magenta	BLA: Black
RED: Red	WHI: White
YEL: Yellow	CYA: Cyan

Boundary blink;

Choose whether the boundary should blink or not.

Boundary blink color;

Adjust the color of the boundary blink. Adjustable options:

GRN: Green	BLU: Blue
MAG: Magenta	BLA: Black
RED: Red	WHI: White
YEL: Yellow	CYA: Cyan

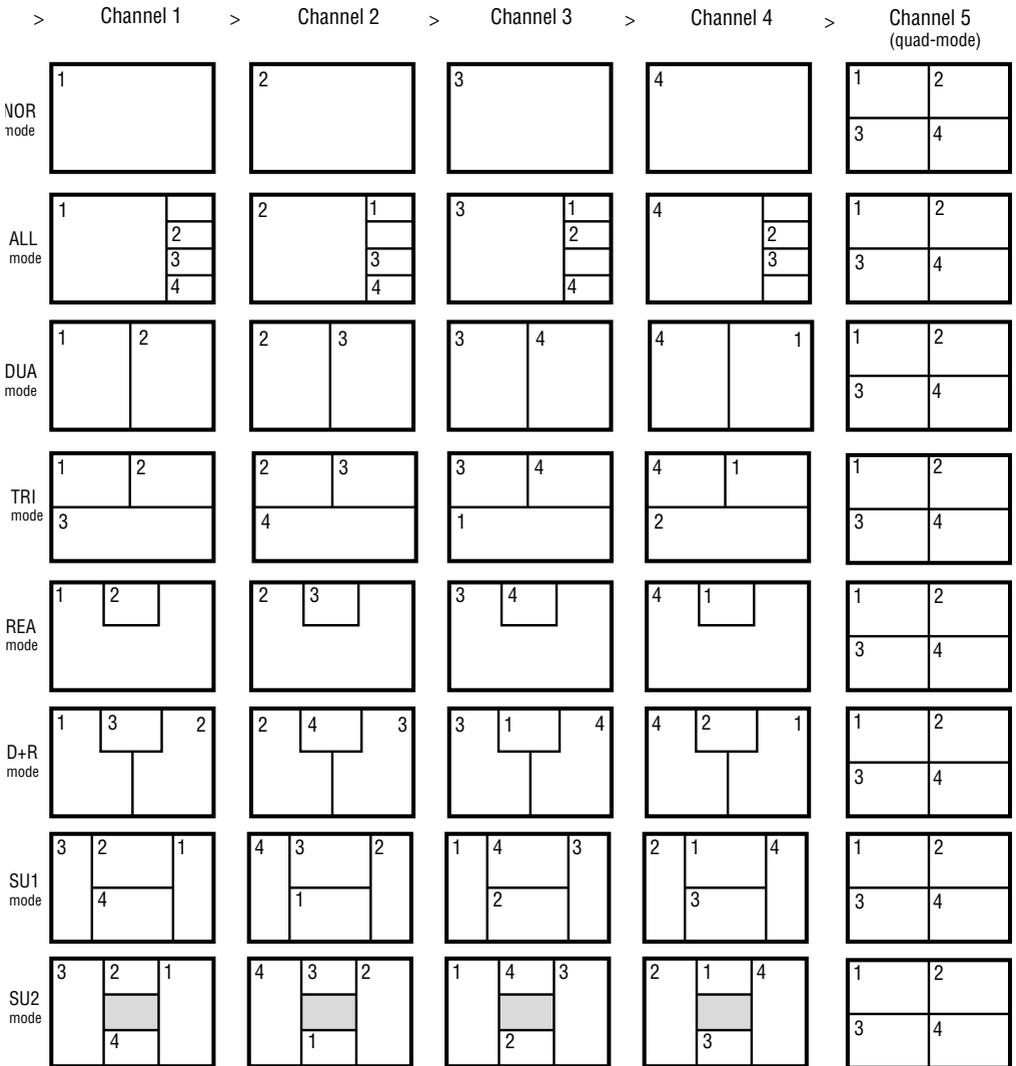
8. Info

See figure 25. This option shows Orlaco Multiview box II information. Check in this screen your software version which is described in this manual.



Figure 25

9. Channel mode overview



10. Version details

Version R1-0. First issue, 8/2016.

Version A 01. Art. no. 0405310 added, 4/2017.

Version A 02. Figure 3, page 3 changed, 8/2017.

Orlaco is a Manufacturing company that specializes in making cameras and monitor systems for commercial vehicles, fork-lift trucks, cranes, off shore and maritime.

Our objective is to design and produce camera systems for the professional market that improve the drivers view and increase operating efficiency.

At our factory in Barneveld, we have a production department, warehouse, design department, service department and showroom.

Vision is our mission®, and Orlaco therefore deploys the development, manufacture, supply and service of camera and display systems that will improve safety and efficiency of all vehicles, machinery and vessels. Our systems give the end user a view on each blind spot and create comfort and improved working conditions. Our active approach will support market demands and innovations and will lead to enthusiastic ambassadors in the market; our Customers.

For more information: www.orlaco.com

