

VIVAT *turn table* 
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Vivat Turn Table D-70 / D-100
User manual

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1. Introduction

Nowadays, when online shopping is gaining in popularity, clients make 90% of decisions about purchasing of a good basing only on the image of the product. The decision to "buy" or "not" directly depends on how well the object is presented on the website. The best option of visualization of the product is "Photo 360°" - the opportunity to examine it from all sides. This is achieved by serial photographing of the object that rotates. The usage of this technology will increase the number of orders, and therefore the profits of the online store. To create a "Photo 360°" we have developed rotary table Vivat Turn Table.

1.1. Sphere of application

Vivat Turn Table is designed for:

- automatic creation of "Photo 360°" - photo series of the object from different angles (catalogs for online stores, electronic catalogs of products, antiques auctions etc.);
- making video of rotating objects (stock video commercials of products, reviews on YouTube etc.).

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1.2. Requiring skills

The table is designed to be easily used both by non-professional users, who do not have any specific photography skills, and by professional photographers.

The built-in LCD screen and buttons eliminate the need for a PC or other control devices.

1.3. Features

Vivat Turn Table has three modes of operation:

- photo mode;
- video mode;
- manual mode.

1.3.1. Photo mode settings

- platform movement direction;
- number of frames per full platform rotation;
- user angles of object photos;
- pause before and after shutter release, manual shooting, continuous shooting;
- smooth start and stop of the movement;
- platform rotation speed.

1.3.2. Video mode settings

- platform movement direction;
- number of cycles;
- smooth start and stop of the movement;
- platform rotation speed.

1.3.3. Manual mode settings

- platform rotation speed.

1.4. Vivat Turn Table features

- fully automatic operation - table itself manages the camera requiring no other control and timing devices;
- the use of industrial stepper motor enables highly accurate shooting of objects weighing up to 150/200 kg. (D-70/D-100 model);
- remote control allows you to operate the Vivat Turn Table at a distance of up to 5 meters from Vivat Controller. This saves time and improves the working process;
- video mode and photo mode programs can be started in "one click". Also, remote control allows to make a test photo.

2. Package contents

- Vivat Turn Table;
- Vivat Controller;
- AC adapter 12V;
- camera control cable and shutter release adapter;
- IR remote control;
- Vivat Photo 360 full version software link.

3. Specifications of Vivat Turn Table D-70/D-100

Maximum object's weight _____ 150/200 kg

Platform diameter _____ 70/100 cm

Voltage support _____ $\pm 12V$

Unit weight _____ 12/25 kg

Dimensions _____ 70 cm x 70 cm x 11 cm / 100 cm x 100 cm x 11 cm

4. Preparation for work

Set the device on a hard flat surface. Adjust some table legs if necessary.

On the side of the Vivat Controller there are connectors for camera – “Camera”, power – “DC 12V”, and motor “Motor”.

Connect the power cord connector “DC 12V”, sync cable from camera to connector “Camera” and motor cable to “Motor” connector. The connecting of the camera to Vivat Turn Table must be performed when the power is off. The plug of the sync and motor cable should be fixed into the housing unit.

5. Operation of the Vivat Turn Table

5.1. The controls

On the front panel of the Vivat Controller there are: LCD screen, control buttons and IR remote receiver.

The LCD screen displays information about the operating mode, settings and status of the program.

"Left" and "right" buttons are used for the menu navigation, "up" and "down" change the settings, "center" button uses to confirm.



Pic. 1

5.2. Working with a remote control

Vivat Turn Table comes with an infrared remote control (IR) (pic. 2). It runs on two AAA type batteries.

Button ← of IR remote initiate a test shoot.

🏠 - return to root menu.

Violet IR buttons duplicate buttons on the Vivat Controller (“left”, “right”, “up”, “down”, “ok”).

🔄 and * - launch video and photo mode with pre-set parameters. You can configure the program settings once and then launch it with one button from IR.

Button ▶|| starts manual mode.

In manual mode "left" and "right" violet buttons move the platform, and buttons ◀▶ turn it 22.5 ° counterclockwise or clockwise.

IR remote buttons described in Table 1.



Pic. 2

IR button	Function
←	Camera shutter release
🏠	Exit to root menu
Arrows	Menu navigation / value change / change direction of movement
OK	Select / stop the program
🔄	Launch video mode with pre-set parameters
*	Launch photo mode with pre-set parameters
◀	Move platform at 22.5 ° counterclockwise in manual mode
▶	Start manual mode / return to “zero point” in manual mode
▶▶	Move platform at 22.5 ° clockwise in manual mode

Table 1. IR remote buttons

5.3. The preparation of the camera

Before starting the work with Vivat Turn Table it is important to adjust the camera:

- disable the autofocus on the lens or the camera body (depending on a model);
- select the manual mode and adjusts the exposure according to the shooting conditions;
- when shooting "Photo 360°" disable camera "auto turn-off" and " image review" functions, also sometimes remote control option should be turned on (when shooting video, it is not necessary).

In different cameras, same settings can have different names.

5.4. Vivat Turn Table modes

There are two main modes of Vivat Turn Table – “PHOTO MODE” and “VIDEO MODE”. Also device has an additional manual control mode – “MANUAL MODE”.

In “PHOTO MODE” platform rotates at a certain angle with a certain speed, then it signals camera to release the shutter. This process occurs as many times as many frames have been set until the object makes a full rotation (360°).

“VIDEO MODE” is mainly used for shooting objects in continuous motion. This is the perfect mode for shooting objects for stock videos and items presentation.

“MANUAL MODE” is additional. It is used to put the object in the correct position in the frame.

5.5. Menu operations

After turning on the inscription “press o for menu” appears on the LCD screen. This means that the device is ready to use.



Press the center button on the Vivat Controller (or the “ok” button on the remote control) and go to menu selection mode.

The menu navigation is performed by the buttons "left" and "right". To confirm - use the center button. To change settings modes use the buttons "up" and "down". In order to confirm setting changes (save value) - press the center button.

Appendix 1. ([Ap. 1](#)) shows the complete menu structure.

5.5.1. Photo mode

The photo mode (Photo 360 °) is the first in the list proposed to user. It is commonly used with this equipment.



The first option of the photo mode is “direction” - the direction of the platform motion: clockwise “-> CW” or counterclockwise “<- CCW”.

The number of frames per full rotation (from 1 to 360) is set by parameter “frames”. Smooth movement of "Photo 360°" depends directly on this value.

Last value of “frames” property is “user frames”. When this value is chosen, device make photos according previously saved user frames. They can be set in “[SETTINGS](#)” menu.

You can specify the pause in seconds between the stop of the platform and camera shutter release (“pause before”). This is necessary while shooting flexible objects for damping vibration transmitted from the platform to the object.

It is also possible to set the pause after the shutter (“pause after”). This pause is required for shooting at slow shutter speeds.

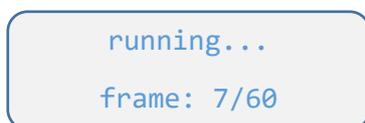
Option “acceleration” activates motion platform with acceleration and deceleration. This prevents the displacement of the object through its own inertia.

One of the main options is “speed” - the rotation speed of the platform. Choose from 5 options - from slowest to fastest.

“Manual shoot” will turn on/off manual control option. Device will wait until user presses buttons “left” or “right”. This option can be useful for animations creation.

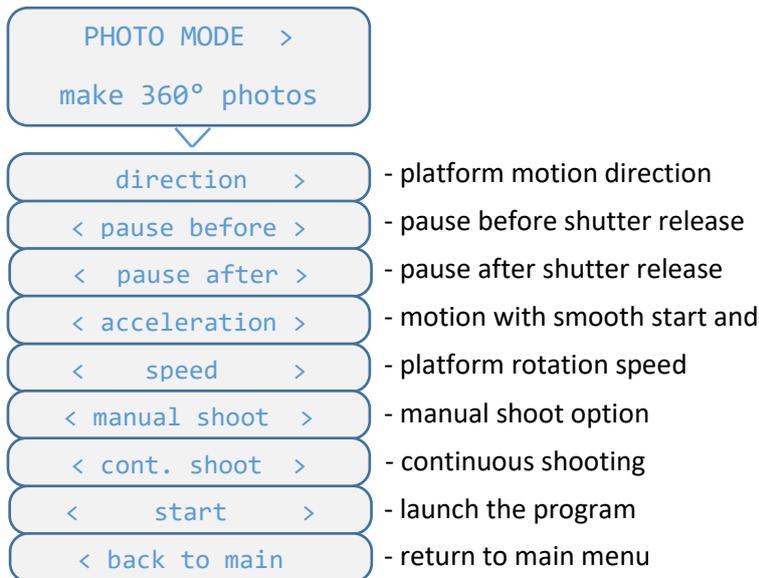
“Cont. shoot” (continuous shoot) – will turn on/off continuous shoot in photo mode. Parameters “pause before”, “pause after” and “manual shoot” are ignored in this case and platform rotates without pauses and makes photos. Very important is to choose optimal rotation speed and frame quantity to avoid skipped frames.

“Start” launches the program. The progress will be shown on the LCD- screen:



- program can be interrupted by pressing on the center button

“Back to main” returns to the main menu.



5.5.2. Video mode

Next after "Photo mode" is "Video mode"



This mode has 4 options.

The first option “direction”, as in the photo mode, sets the direction of the platform movement.

You can also specify the number of full turns – “cycles” (1 to 255).

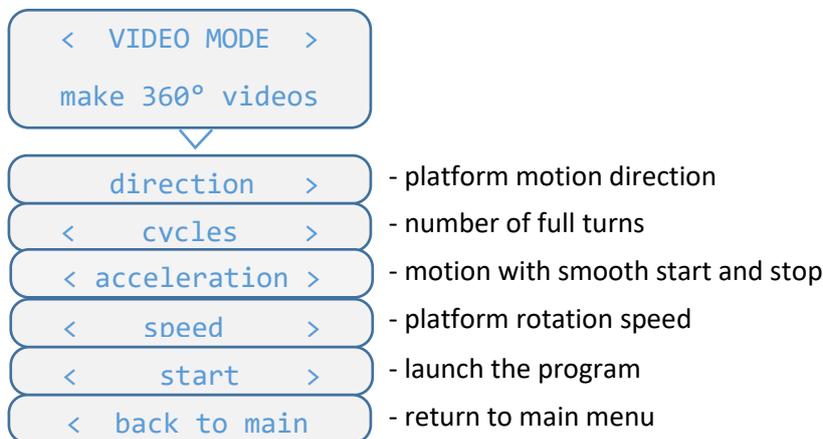
“Acceleration” is for a smooth start and stop of the platform.

The option “Speed” allows you to change speed from 1% to 100%. You can change the speed during program progress by pressing “up” and “down” buttons.

“Start” launches the program. The progress will be shown on the LCD- screen:



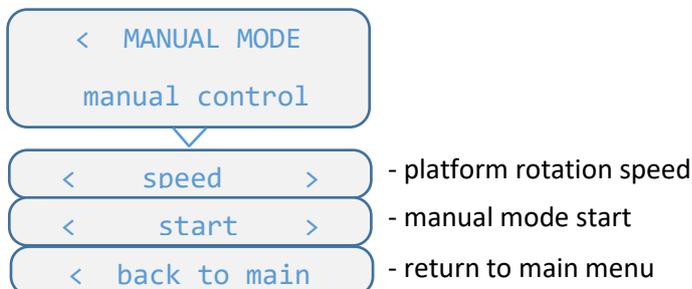
“Back to main” returns to the main menu.



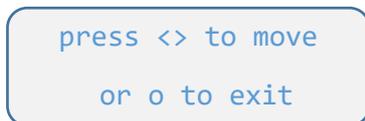
5.5.3. Manual mode

The manual mode allows the user to control the turntable himself by pressing the "left" and "right" buttons.

It is possible to select the appropriate speed of the platform with option “speed”.



“Start” launches the manual mode.



Buttons "left" and "right" rotates the platform clockwise and counterclockwise. The central button is for exit from manual mode.

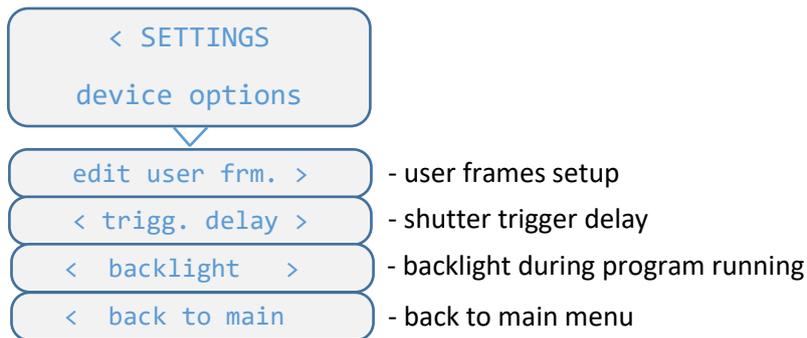
“Back to main” returns to the main menu.

Manual mode can be launched from IR remote using ► button. It is useful for positioning object before shooting.

Exit from the manual mode is carried by central button on the remote control or on the table body.

5.5.4. Device settings (SETTINGS)

In this menu user can change basic device settings.

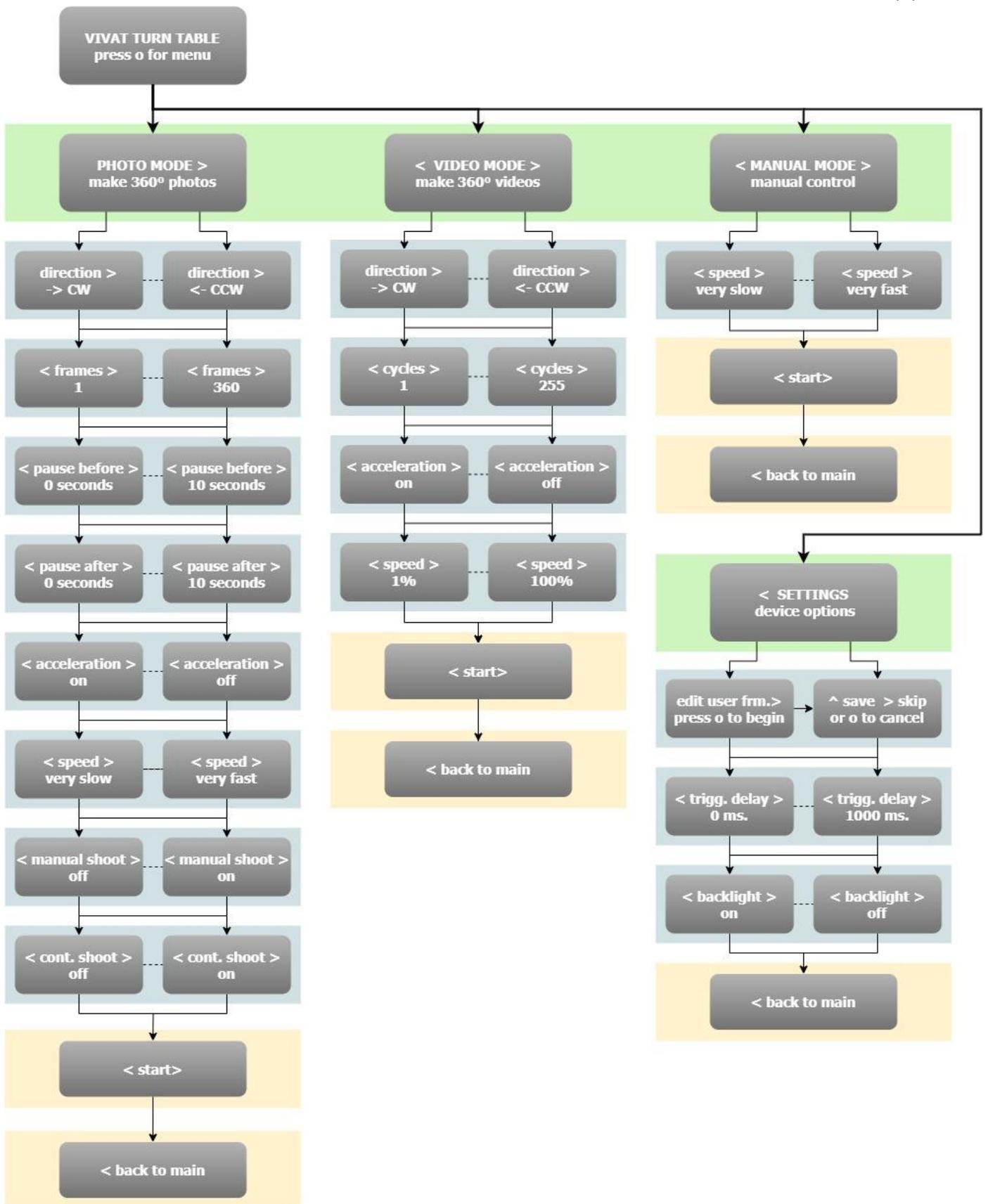


“Edit user frm.” (edit user frames) allows users to set up to 10 frames with different shooting angles. Choose this menu item, LCD will show “^ save > skip or o to cancel”. After pressing “up” button, device will save start position as first user frame and starts rotation clockwise. Every next pressing “up” button will save current position as user frame (from 1 to 10). If you don’t need start position to be saved as user frame, press “left” button instead of “up” button on start. Device will make full circle rotation and save all user frames to memory.

“Trigg. delay” (trigger delay) sets delay of shutter trigger (some cameras need more time to react to device signal).

“Backlight” - will turn on/off LCD backlight during running the program. It can be useful when shooting reflective objects.

“Back to main” returns to the main menu.



Appendix. 1 Device menu structure.