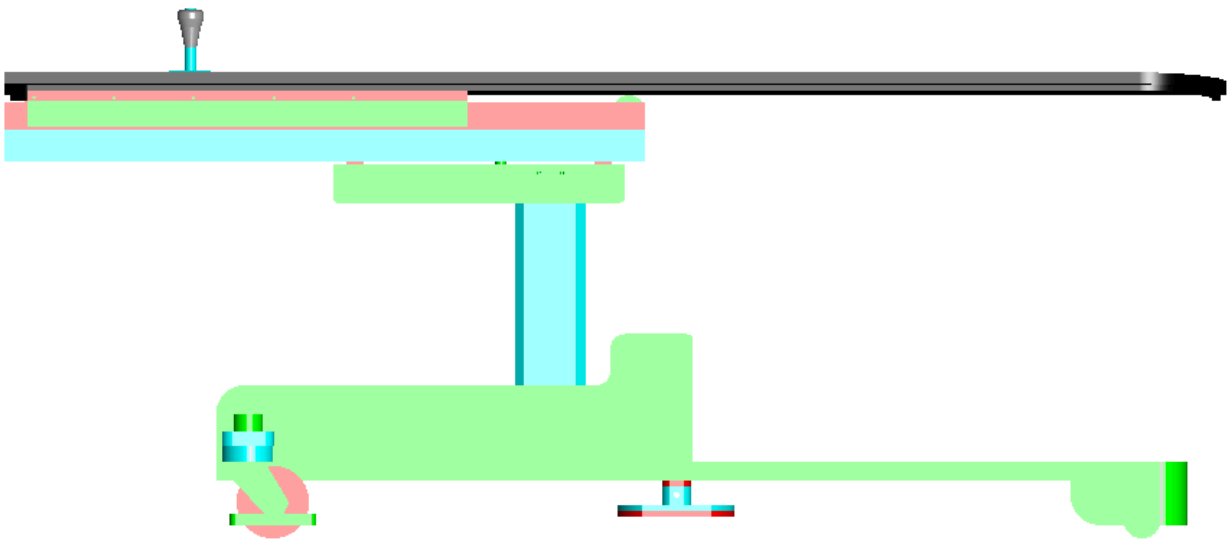
eurocolumbus

Instructions For Use

ALIENCT

Sept. 02 rev. B



Mobile Radiographic Table

with Cantilever Carbon Fibre Top.

WARNINGS

Risks due to the non-observance of instructions for use.

It is expected that the proper use of the equipment subject of this manual is following to the user's specific knowledge according to legal requirements and regulations.
Before using the equipment the user is directed to read and carefully review the instructions, warnings and cautions written herein before starting any operation, installation and service activities.

Risks due to lack in checking and maintenance.

As with any movable assembly, this one must be operated with care and routinely inspected in accordance with manufacturer's recommendations written in this manual in order to keep unchanged its performance and safety features.
Intervals and the kinds of maintenance to be completed are written in this manual.
The supplier is at disposal for the required assistance and maintenance.

Responsibility.

The manufacturer assumes no responsibility about a non-observance of the equipment instructions for use, of warnings and cautions about safety and a non-appropriate maintenance.

Contents

1. Equipment description and Use.

Mobile radiographic table, with floating and elevating carbon fiber patient table top, used to support and position the patient in the radiographic examinations of traditional and digital angiography, in electrofisiology, in the minor surgery and pace-makers emplacement.
The table can be coupled with ceiling or floor mounted C arm in fixed systems or with "C" arc of mobile units.
The patient table top is moved manually. An ergonomically designed grip, with an incorporated push-button to unblock the brakes, permits movement of the table top easily to the four directions even if it is loaded with a very heavy patient. The patient table top braking is obtained by permanent magnet safety brakes.
Near the grip of the control box, that can be positioned on both sides of the patient table top, there are the push- buttons to control the brakes and the motorized movements.
All the electric mouvements are controlled with the handset: table up, table down and, in the “Tilting” version, the tilting of the table in longitudinal direction of the patient until ± 10°.

2.Equipment Features

Table top	
• Profile	anatomic
• Material	carbon fibre
• Overall lenght	208 cm
• Lenght of trasparent area	169 cm
• Part free from metal structure	147 cm
• Overall width	52.0 cm
• Width of trasparent area	52.0 cm
• Thickness	3.0 cm
• Absorption in mm Al equivalent	<0,8
• Patient' s max weight	130 Kg
Lateral mouvement	manual
• Travel	± 13 cm
• Locking device	permanent magnet brake
Longitudinal mouvement	manual
• Travel	70 cm
• Locking device	permanent magnet brake
• Max. cantilever	169 cm
Vertical mouvement and Tilting (Optional)	motorized
• Minimum distance from floor	81 cm
• Travel	30 cm
• Average speed	1,3 cm/s
• Tilting travel	± 10°
• Tilting speed	3°/s
On board control panel• Manual floating top / breakes release	hand grip / push buttons
• Motorized up/down control	Push buttons
Power requirements	
• Single phase line voltage	230 V 50/60 Hz (115V on request)
• Max absorbed power	800 VA
Weight	310 kg.

Equipment identification	according EN 60 601
• Classification	class I type B
• Typology of installation	mobile unit
• Working mode	continuous
Standard compliance	
• Safety	EN 60 601
• Electromagnetic compatibility	89/336 European directive
Transport and stock environment	
• Temperature range	-15 °C to 60 °C (5 °F to 158 °F)
• Relative humidity range (without condensing)	10% to 90%
• Atmospheric pressure range	500 hPa to 1060 hPa
Operating environment	
• Temperature range	10 °C ÷ 40 °C (50 °F to 104 °F)
• Relative humidity range	30% ÷ 75%
• Atmospheric pressure range	700 hPa to 1060 hPa
Accessories.	

3. Use.

3.1 Equipment power requirements.

The ALIENCT mobile radiographic table is usually predisposed for single-phase supply at 230 V – 50/60 Hz.
The predisposition is shown in the identification label that is on the unit.

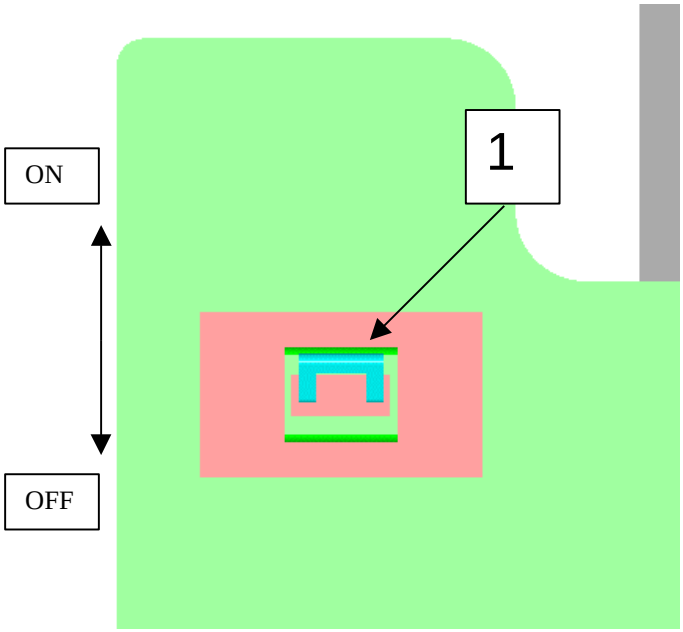


Fig. 1

The table needs for its power a single-phase socket of 230 V (or 115 V) - 10A.
The power cable comes out from the table of the base and is about 6 m long.
To power the table it is also necessary to turn off the switch 1. The switch must be always off before plugging in/out the plug from the supply socket.
It is extremely important that the radiographic table is properly grounded.

3.2 Movements.

The different possibilities of moving and positioning the table for radiographic examinations with cantilever carbon fibre patient table top are showed by arrows in the drawings of figure 2 and 3.

The tilting mouvement is showed in figure 4 (optional).

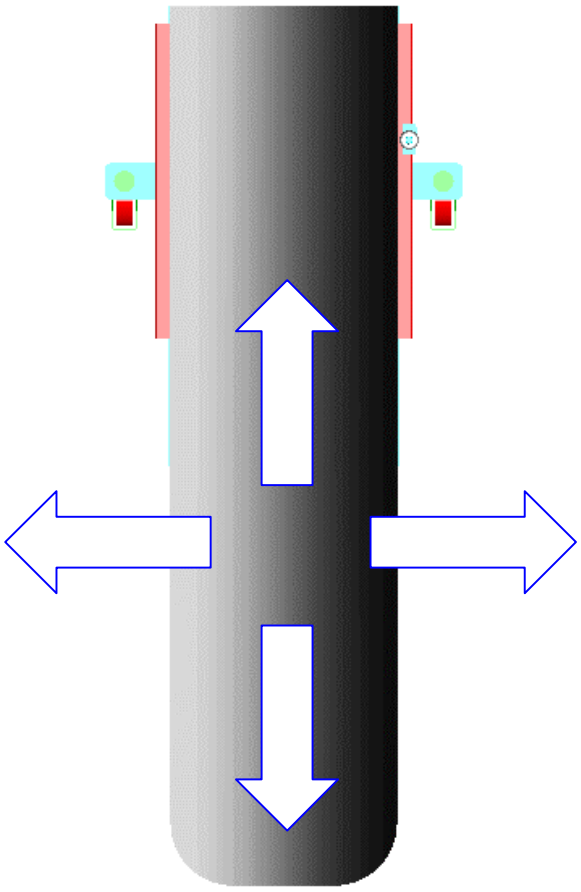


Fig. 2

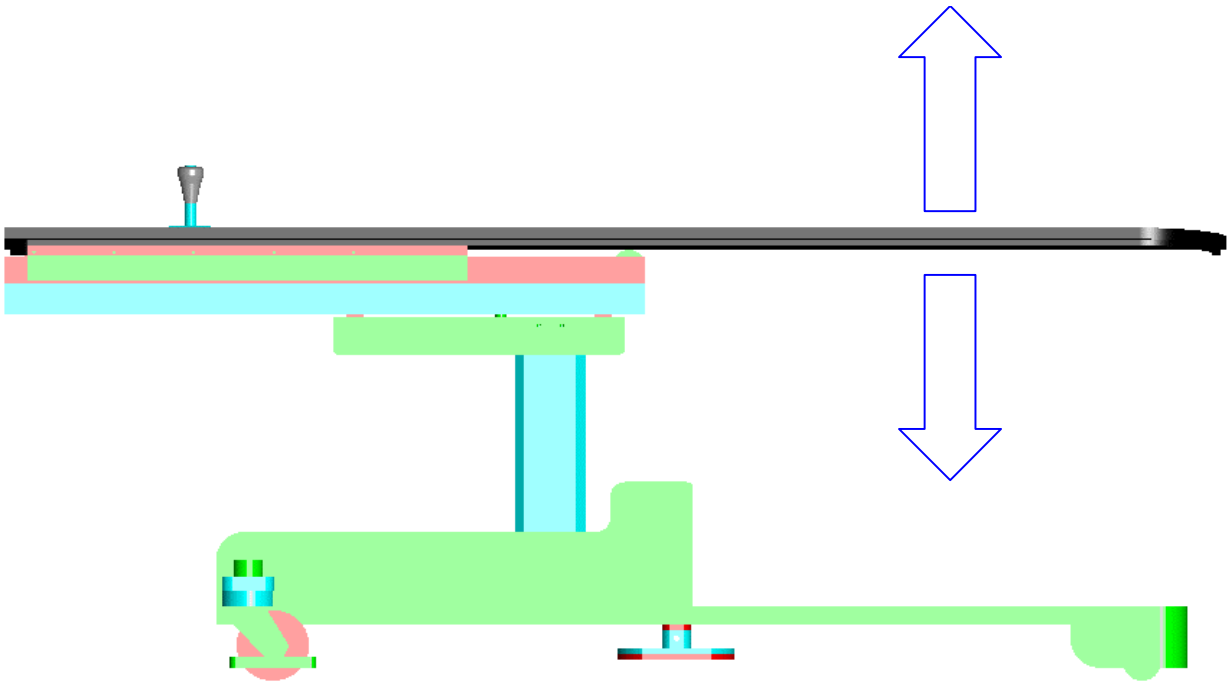


Fig. 3

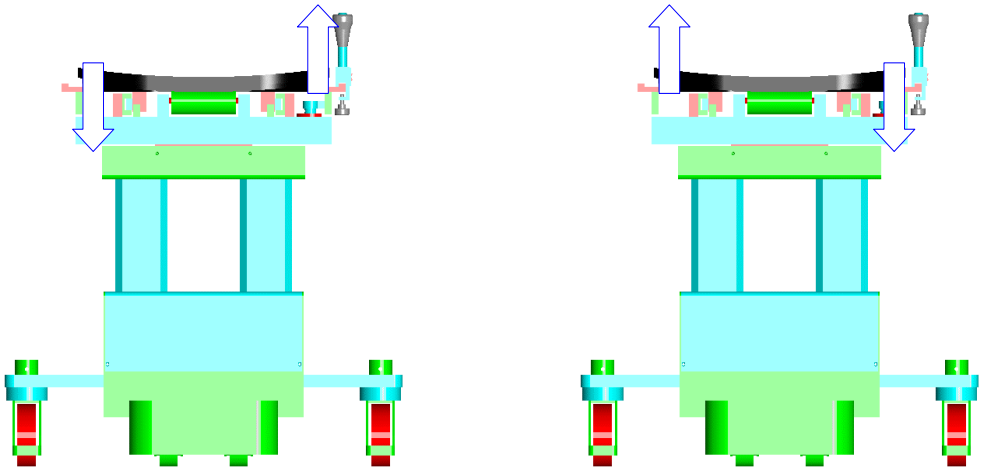


Fig. 4

3.3 Table Mobility and Braking.

The unit is supplied with wheels of a dimension that permits a good mobility, even with heavy patients. The back wheels (fig.5) can be blocked independently by stepping downward on a lever, with a person's foot, that starts and keeps in place the block device that pushes against the wheel itself. Lifting up on the lever will release the wheels.
The front brake does not act on the wheels but directly on the floor itself by a platform. The platform, that is placed in the foot, is pushed against the floor by pushing the switch near the grip.

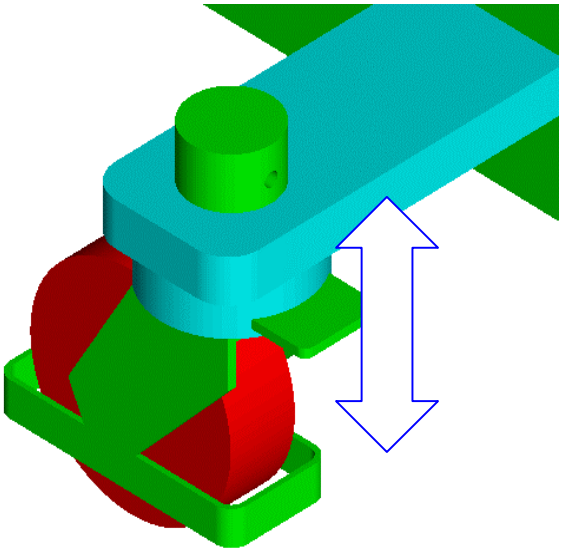


Fig. 5

3.3.1 Patient table top movement and braking.

For the patient table top to stay stationary, some safety electro-magnetic brakes are utilized. This is done by permanent magnets. By activating the unblock brakes push-button, the braking action is set to zero and that permits the patient table top movement and position that is needed. The braking action is re-set by releasing the push- button.

CAUTION: in the ALIENCT device with the "Tilting" option, the brake is disabled when the table is not in the horizontal position, to avoid unwanted mouvements caused by the patient weight. Nevertheless (and the possibility constitute a RESIDUAL RISK) the push button can be enabled even if the table is not perfectly horizontal. So, is very important that the table brakes are used ONLY when the table is in horizontal position, that the hand-grip is rigidly locked on the slide, and that the hand-grip is heartily handled.

3.4 Control box.

The control box showed in the fig.6 is supplied with grip 1 to manually move the patient table top. The control box, as other accessories, is fixed at the alluminium lateral profiles of the patient table top.
To move the patient table top without any restrictions it is necessary that the control box is strongly fixed to the aluminium profile. The control box is attached by grip 3.
The controls are intentional, that means they work as long as the push buttons are kept pushed.
ALIENCT is supplied with handset to control the two columns of the updown movement.

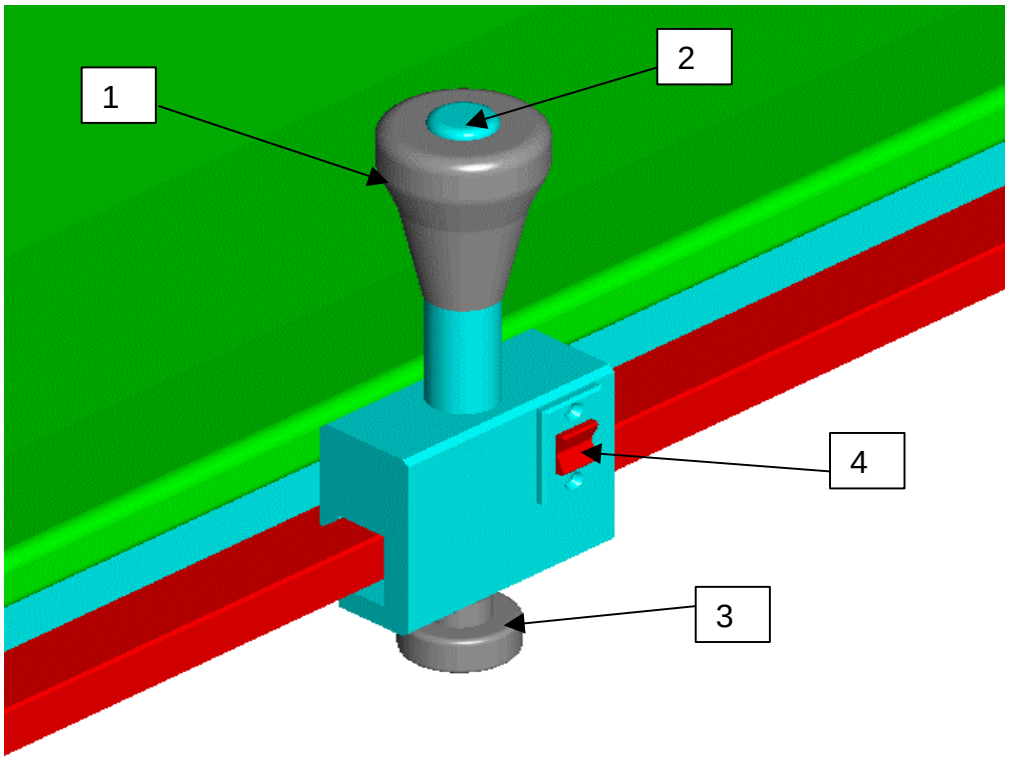


Fig. 6

On the control box there is the push-button to control the front brake (4).

The controls complete list with reference to figure 5 is as the following:
1 Grip for the manual movement of the patient table top
2 Patient table top control brakes
3 Grip to fix the control box to the aluminium lateral profiles
4 Push-button to control the front brake

The handset for the control of the electric mouvements is showed in figure 7. The push-button functions are the following:

1) Upper left push-button (arrow up) ► table top up;
2) Upper right push-button (arrow down) ► table top down;
3) *Optional* Inferior push-buttons ► tilting until ± 10°.

Fig. 7

3.5 General precautions.
The equipment moving and positioning must be done with care to avoid damages both to people and equipment functional integrity.

When you must move the table, move away the platform with the switch near the grip (4).
Do not park the table on sloping plains and do not leave it unguarded.
Avoid subjecting the equipment to harmful stress. As, for example: to harshly stop the mobile parts on the stop travel pads, to force the movements without unblocking the brakes, or to twist and pull the functioning and power electrical cables.

3.6 Carbon panel precautions.

The carbon fiber panel integrity must be safeguarded by avoiding abrasives or other objects to rub or lean against the panel itself.
Do not subject the cantilevered part of the carbon fiber table top to concentrate loads. The panel endurance features, even if remarkable, are guaranteed only for loads in accordance with the safety limits rules.

3.7 Equipment Cleaning and Disinfecting.

The reachable parts of the equipment must be cleaned regularly from dust and from grease substances that might settle on the parts subjected to handling.
Before cleaning or disinfecting operations make sure that the system is turned off and that no liquids can seep into the equipment.
Do not use water because it causes oxidation and corrosion of the metallic parts, nor abrasive substances for the painted parts.
It is necessary to use cleaning products in commerce as the ones used to clean household appliances and disinfectants that don't cause with air inflammable and explosive mix. The use of these products must comply to the instructions of use supplied with the products themselves.
The equipment must be covered with lengths of waterproof material during the disinfecting operations of the radiological room.

3.8 Maintenance.

This equipment includes mechanical parts such as: sliding guides, ball bearings, and other parts as electrical cables, plastic hoses, momentary switches.
These parts must be subjected to periodical inspections and maintenance.
A general inspection of equipment and working conditions must be done at intervals no longer than 12 months. More frequent inspections must be done if the equipment is subjected to heavy use.
It is mandatory that preventive maintenance are performed by an expressly authorized staff person who is appropriately trained for this purpose.
Modifications, updates to the unit and special maintenances must be done by the manufacturer or by the technical staff authorized by it.
All the ordinary or special interventions performed on the equipment must be documented and the documentation must be logged for future reference.
The non observance of the mandatory maintenance and documentation automatically declines the manufacturer's responsibilities.

3.9 List of the periodical inspections.

GENERAL CONTROL	INTERVALS
Cleaning of the ball bearing slides	12 months
Cleaning and lubrication of bearings and pivots	12 months
Fastening of the screwed parts	12 months
Braking devices efficiency	12 months
Control devices efficiency	12 months
Sheaths and electrical cables conditions	6 months
Carbon fibre top condition	6 months

3.10 Equipment Dismantling.

The equipment is consisting almost for the whole of metallic materials as steel, aluminium, copper and of a small part of plastic material and electric/electronic components.
The metallic parts can be recycled as scrap.
The electrical components and the plastic materials must be treated separately as special scrap.
However, the disposal/recycling of the materials that make up the equipment must be effected according to the regulations in force at the moment in which the operation is done.
The supplier of the equipment remains at disposal to give useful information about all that.

3.11 Labels, Abbreviations.

Following, are a list of labels, inscriptions, graphic signs and abbreviations that are on the equipment and/or in this manual.

3.11.2 Abbreviations.

kg	kilogram
cm	centimeter
mm	millimeter
°C	Celsius degrees
"	inch
%	percent
hPa	hecto pascal
CE	European Community