

Professional 3D/360° SOLUTIONS

topscan3d.net

# TopShow3D - dedicated 3D/360° Presentations System

**CATALOG**  
**2012/2013**



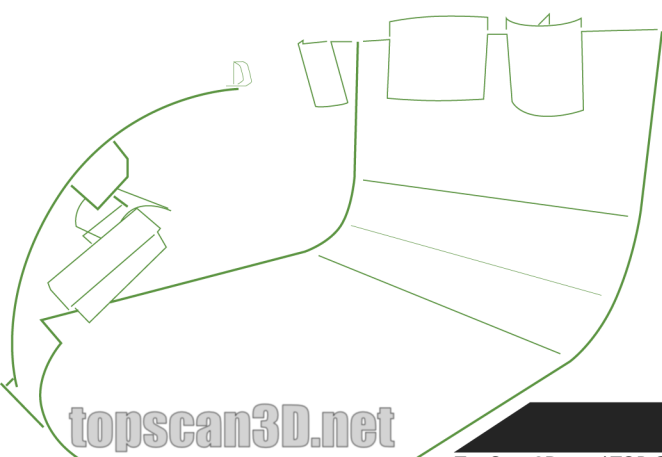
**SOFTWARE**  
**AND**  
**HARDWARE**

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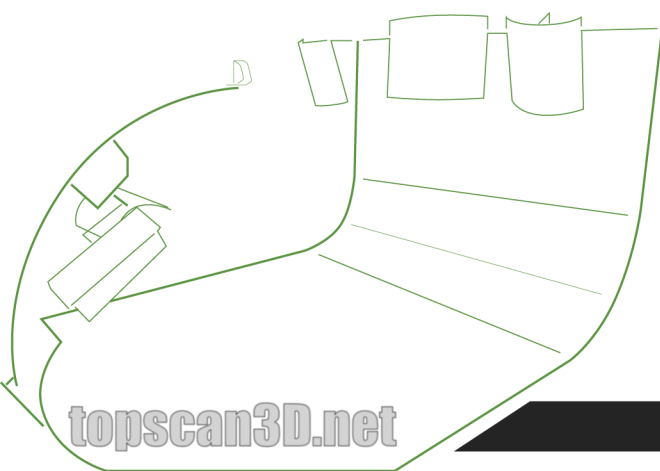


# SYSTEM TOPSHOW3D

**T**opShow3D is a system where depending on configuration you can create interactive 3D (multi axis, up/down and right/left turn) and 360deg. (single axis, right/left turn) presentations of products, from very small items like jewellery up to very large objects, like vehicles and buildings. This type of rotating 3D pictures and 360deg. pictures (3D/360deg. photography, 3D/360deg. packshot) is brand new quality in product photography, an alternative to unnatural, based on artificial textures 3D visualisations. Depending on customers requirements, all elements of TopShow3D system can be controlled manually or pre-programmed, automated, controlled from PC/laptop or by using remote. Additionally, by combining certain elements of 3D/360deg. pictures system, you can create interactive landscape presentations, like 360deg. panoramas and virtual tours.

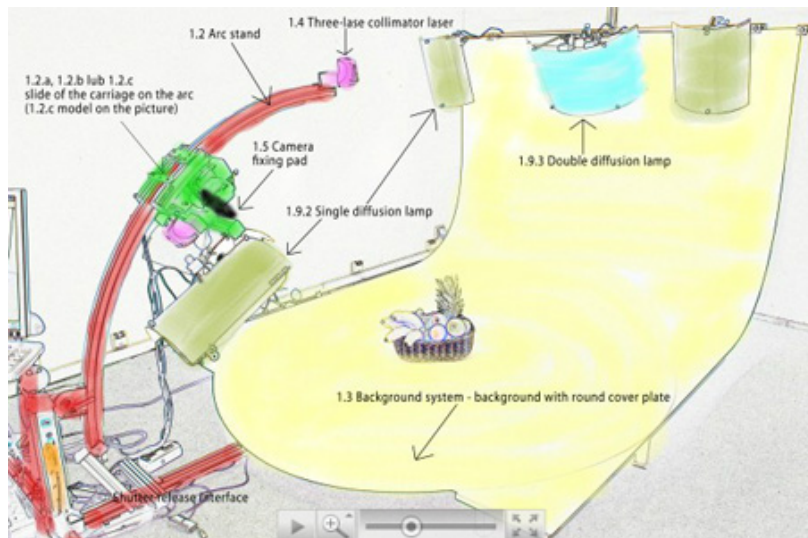


Example of TOPSHOW3D set with automated TSA80 platform, arc stand automated carriage and background 120 system.

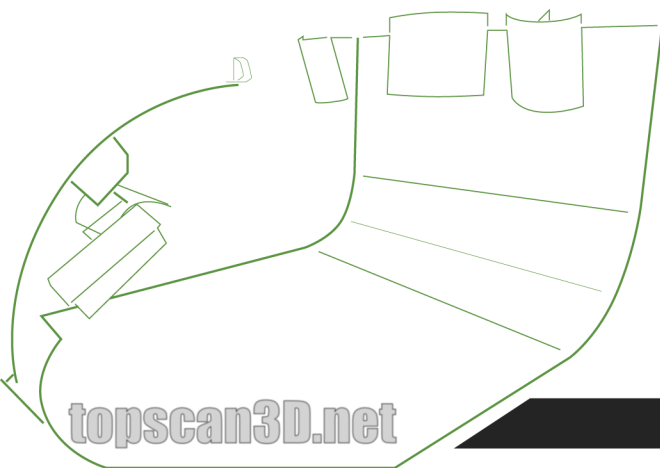


# SYSTEM TOPSHOW3D

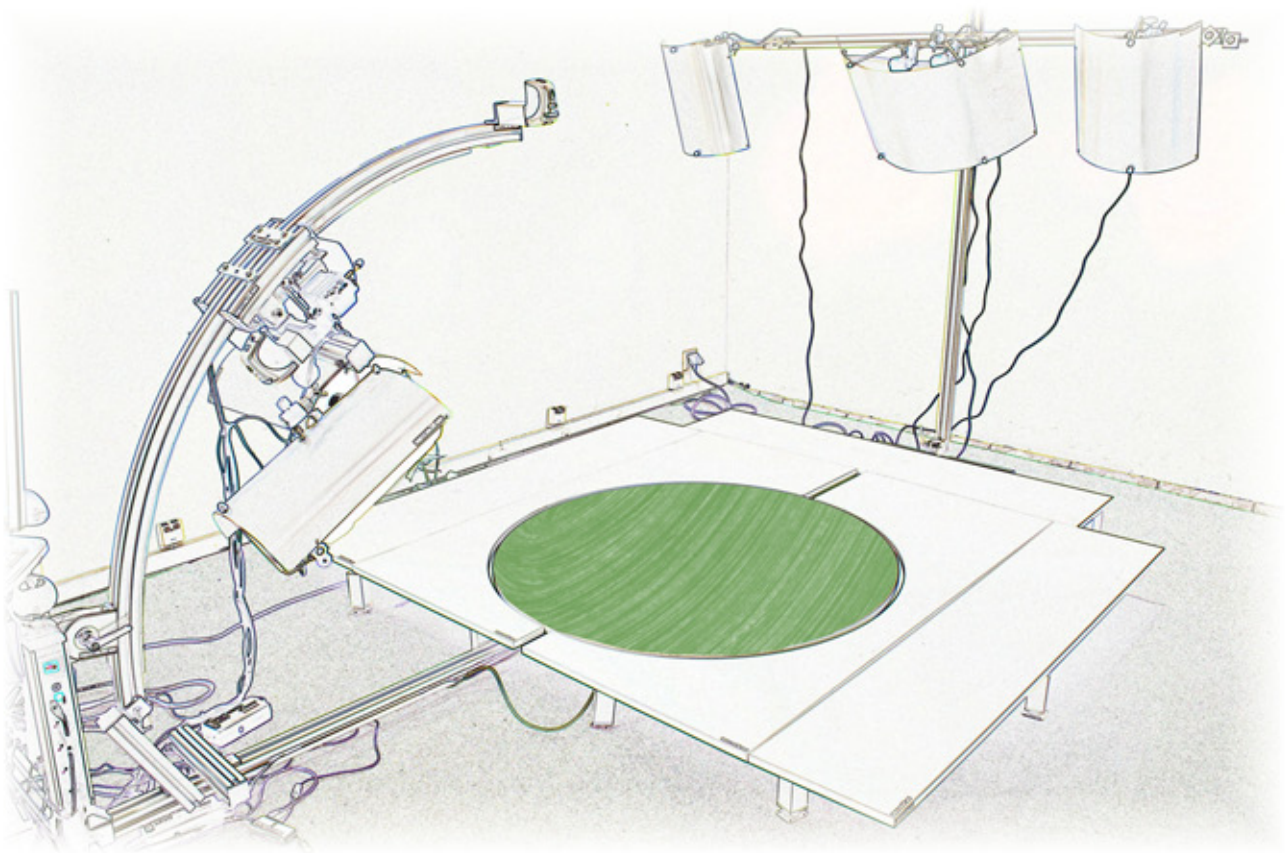
**T**opShow3D Automatic system is fully automated solution that will let you in convenient and efficient way to move real products into virtual reality as 3D/360deg. presentations. Elements of the system, thanks to their variety and compatibility, guarantee completing set that will fulfil specific requirement of every customer. Automated scanning and control process makes creating 3D/360deg. presentations very time efficient and it improves output quality.



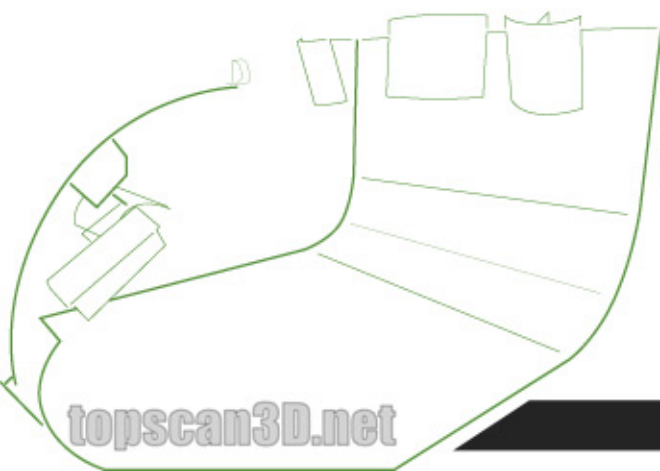
Draft of TopShow3D system outlining the most important elements of the set.



# 1.1 AUTOMATED AND MANUAL PLATFORMS



Sketch of TopShow3D set with platform marked.

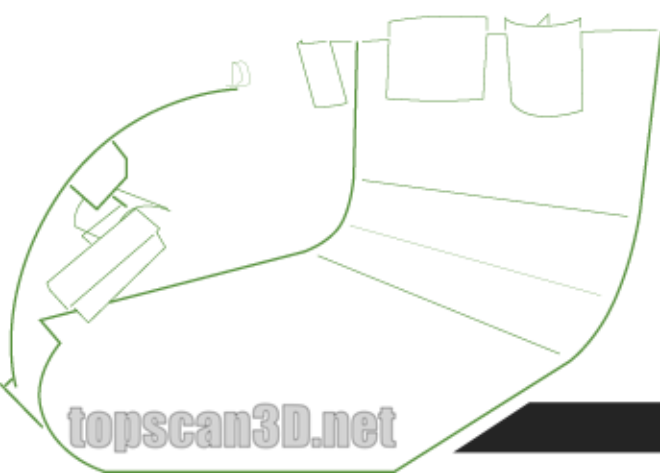


## 1.1.1 Automated TOPSHOW3D AUTOMATIC TSA80 platform

- 80cm diameter,
- maximum constant load of 30kg,
- controlled from PC/laptop (TMCL software),
- TMCM module driver,
- RS232 + USB interface,
- programmable automated turn from 0,9deg.,
- white table top
- turntable top thickness of 18mm,
- programmable speed: from 6 turns / min (from 10 sec. to 600 sec. per one turn),
- programmable shutter release with (and without) interval for stopping the platform (in any range),
- programmable start/stop speed (useful when dealing with large or unstable objects),
- intelligent vibration compensating module,
- energy saving module (standby mode),
- configuration and control: in dialogue, binary and assembler mode,
- automated load weight recognition system,

### OPTIONS FOR TSA80 PLATFORM

- maximum constant load of 60kg,
- maximum constant load of 100kg,
- shutter release interface with camera adapter and online working mode option (loop),
- additional interfaces (analog input/output – 1pc., digital input/output – 1pc.) i.e. for lamps control
- dedicated power supply adaptor/switch/4 port concentrator with signal level stabilization for PC/laptop/camera/mechatronic unit communication.

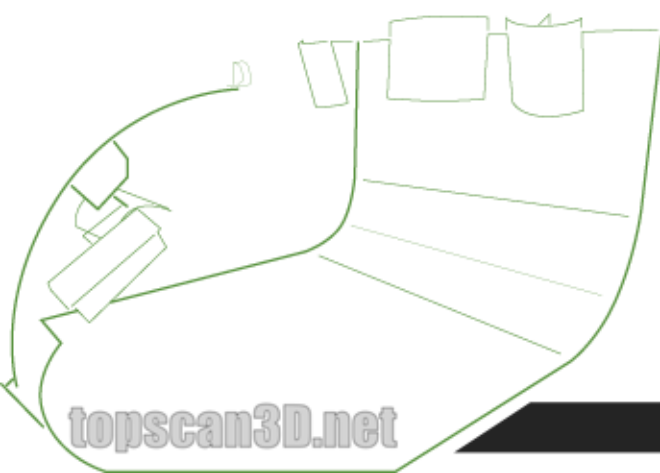


## 1.1.2 Automated TOPSHOW3D AUTOMATIC TSA100 platform

- 100cm diameter,
- maximum constant load of 60kg,
- controlled from PC/laptop (TMCL software),
- TCM module driver,
- RS232 + USB interface,
- programmable automated turn from 0,9deg.,
- white table top
- turntable top thickness of 18mm,
- programmable speed: from 6 turns / min (from 10 sec. to 600 sec. per one turn),
- programmable shutter release with (and without) interval for stopping the platform (in any range),
- programmable start/stop speed (useful when dealing with large or unstable objects),
- intelligent vibration compensating module,
- energy saving module (standby mode),
- configuration and control: in dialogue, binary and assembler mode,
- automated load weight recognition system,

### OPTIONS FOR TSA100 PLATFORM

- maximum constant load of 100kg,
- shutter release interface with camera adapter and online working mode option (loop),
- additional interfaces (analog input/output – 1pc., digital input/output – 1pc.) i.e. for lamps control
- dedicated power supply adaptor/switch/4 port concentrator with signal level stabilization for PC/laptop/camera/mechatronic unit communication.

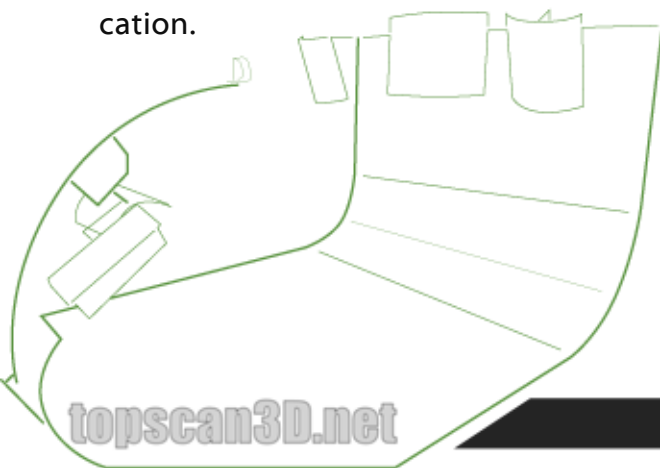


## 1.1.3 Automated TOPSHOW3D AUTOMATIC TSA120 platform

- 120cm diameter,
- maximum constant load of 60kg,
- controlled from PC/laptop (TMCL software),
- TCM module driver,
- RS232 + USB interface,
- programmable automated turn from 0,9deg.,
- white table top
- turntable top thickness of 18mm,
- programmable speed: from 6 turns / min (from 10 sec. to 600 sec. per one turn),
- programmable shutter release with (and without) interval for stopping the platform (in any range),
- programmable start/stop speed (useful when dealing with large or unstable objects),
- intelligent vibration compensating module,
- energy saving module (standby mode),
- configuration and control: in dialogue, binary and assembler mode,
- automated load weight recognition system,

### OPTIONS FOR TSA120 PLATFORM

- maximum constant load of 100kg,
- shutter release interface with camera adapter and online working mode option (loop),
- additional interfaces (analog input/output – 1pc., digital input/output – 1pc.) i.e. for lamps control
- dedicated power supply adaptor/switch/4 port concentrator with signal level stabilization for PC/laptop/camera/mechatronic unit communication.





## 1.1.4 TOPSHOW3D SIMPLY TSS60 manual platform

- 60cm diameter,
- maximum load of 60kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator,
- white colour,
- turntable top thickness of 18mm,
- weight: 10kg,

## 1.1.5 TOPSHOW3D SIMPLY TSS80 manual platform

- 80cm diameter,
- maximum load of 80kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator
- reinforced ball cage
- steel bearing,
- white colour,
- turntable top thickness of 18mm,
- weight: 12kg,

## 1.1.6 TOPSHOW3D SIMPLY TSS100 manual platform

- 100cm diameter,
- maximum load of 100kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator
- reinforced ball cage
- steel bearing,
- white colour,
- turntable top thickness of 18mm,
- weight: 18kg,

## 1.1.7 TOPSHOW3D SIMPLY TSS120 manual platform

- 120cm diameter,
- maximum load of 120kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator
- reinforced ball cage
- white colour,
- turntable top thickness of 18mm,

## 1.1.8 TOPSHOW3D SIMPLY TSS150 manual platform

- 150cm diameter,
- maximum load of 120kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator
- reinforced ball cage
- steel bearing,
- white colour,
- turntable top thickness of 18mm,
- weight: 32kg,

## 1.1.9 TOPSHOW3D SIMPLY TSS180 manual platform

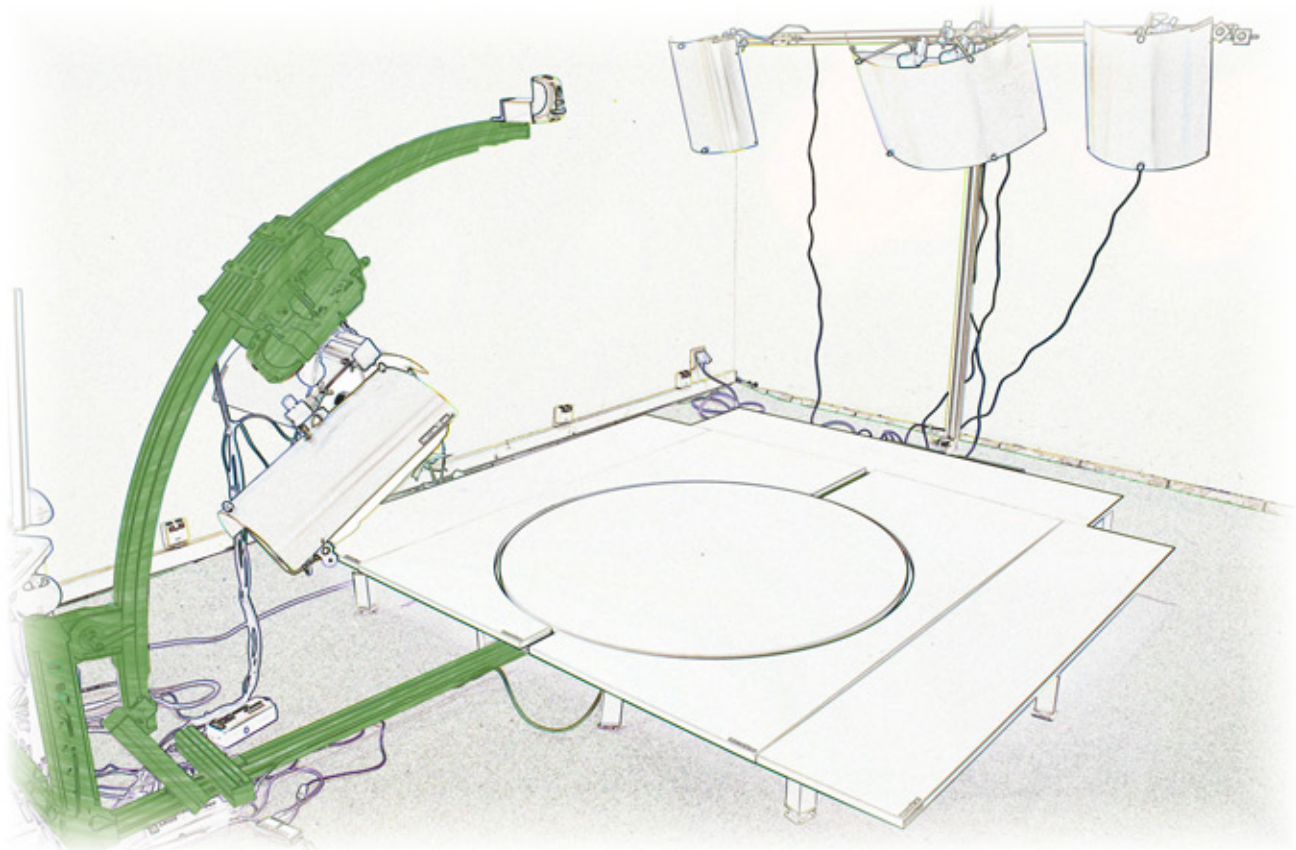
- 180cm diameter,
- maximum load of 120kg,
- scalable manual turn, 20 or 24 steps,
- turn indicator
- reinforced ball cage
- steel bearing,
- white colour,
- turntable top thickness of 18mm,
- weight: 38kg,

Apart of standard automated and manual platforms, we can design and construct custom made platforms with bigger diameter or increased maximum load. Below you can see custom made platform designed by us: TSA300 with 300cm diameter and maximum load of 150kg.



TSA300 platform with FASHION MEGA background.

## 1.2 ARC STAND



Sketch of TopShow3D set with arc stand and carriage marked.

Arc stand is designed for both 360deg. and full 3D presentations – it is stable stand for precise camera positioning on different angles, so it allows creating multi axial presentations (3D). Additionally you can suspend the item and create pictures of its bottom. When we use arc stand for creating 360deg. presentations, we avoid time consuming stand regulation, like we have to do when using classical stand. Furthermore, creating 360deg. presentations using classical stand is very difficult if not impossible – 1mm movement when using mid-angle lens creates object movement in the frame by whole 2cm). Functional design of the product allows quick and simple fixing of additional accessories like positioning laser or lighting.

## 1.2 ARC STAND

- 4-channel aluminium profile,
- length: 150cm,
- R=90cm,
- with angle adjustment joint, 180deg. regulation,
- with adjusted platform mount (slide adjustment),



### ARC STAND OPTIONS

1.2.a – Manual sliding mechanism with rail and 3D head,



Simplest way of fixing camera to the arc stand, allows two-handed, accurate camera angle regulation.

## ARC STAND OPTIONS

1.2.b - Mechanical slide of camera carriage on the arc with angle regulation,



Stable carriage for mechanical camera slide with angle regulation. Thanks to additional fixings you can attach diffusion lighting.

1.2.c – Automatically controlled (PC/laptop/remote) slide of camera carriage on the arc with angle regulation,



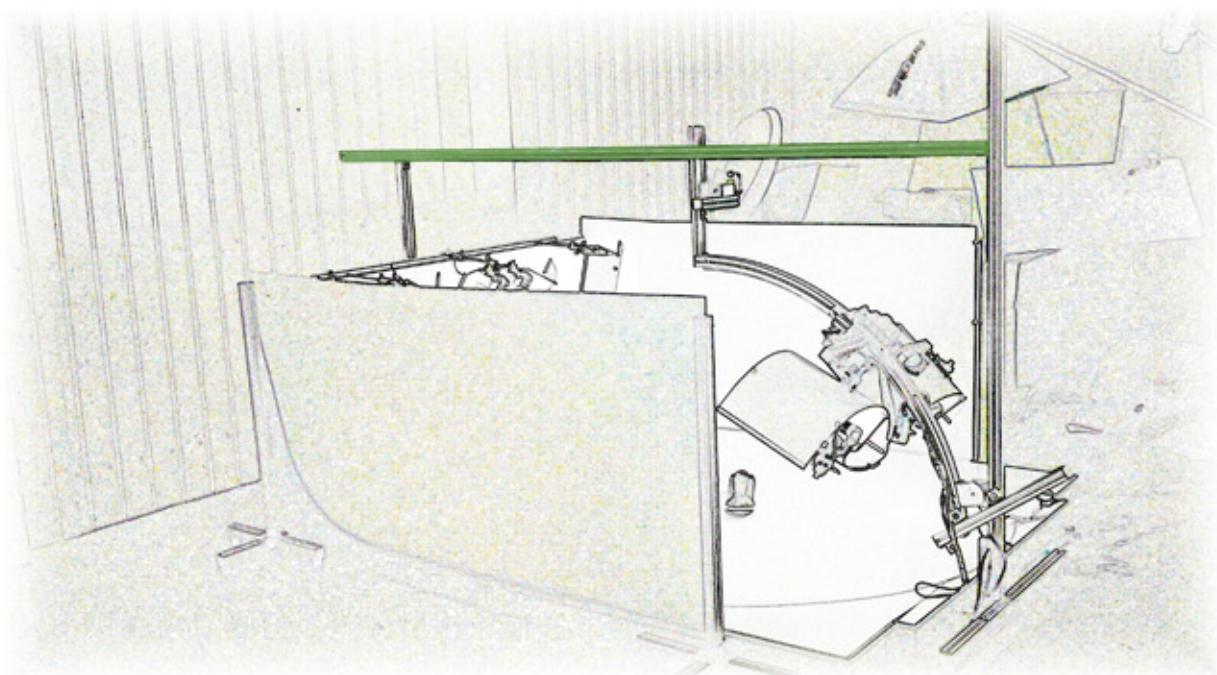
Simplest way of fixing camera to the arc stand, allows two-handed, accurate camera angle regulation. When using LOOP function it is possible to program carriage movement – you can get full 3D animation after clicking one button. -

## ARC STAND OPTIONS

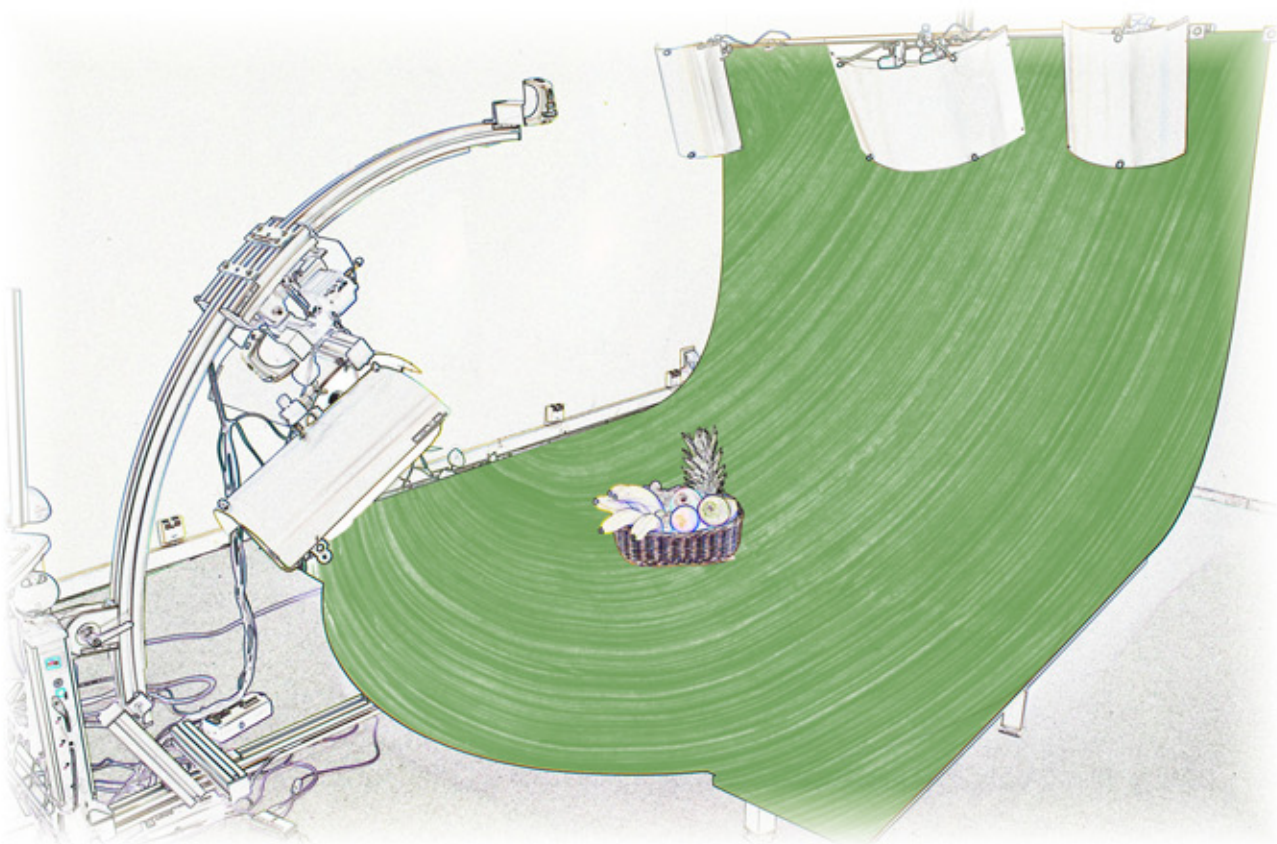
- 1.2.d – Automatically controlled (PC/laptop/remote) slide of camera carriage on the arc – TANDEM carriage with two cameras fixing and angle regulation,
- 1.2.e – LOOP – online working mode of automatically controlled carriage slide, programmed for multi axis 3D presentations (option available for 1.2.c and 1.2.d),
- 1.2.f – Remote control for remote steering of automated carriage 1.2.c or 1.2.d,
- 1.2.g – Arm for vertical mounting of camera with square matrix,
- 1.2.h – Small working station,
- 1.2.i – Large working station,



- 1.2.j – vertical reinforcing bar, arc stand-background link,



## 1.3 BACKGROUND SYSTEMS



Sketch of TopShow3D set with marked background.

1.3.a - 100 background system: background system with 180deg. joint, widening adapter (up to 100cm, 2 pieces) + background + 100cm plate + bar with fixing mounts,

1.3.b - 120 background system: background system with 180deg. joint, widening adapter (up to 120cm, 2 pieces) + background + 120cm plate + bar with fixing mounts,

1.3.c - 150 background system: background system with 180deg. joint, widening adapter (up to 150cm, 2 pieces) + background + 150cm plate + bar with fixing mounts

1.3.d - 200 background system: 150cm stand for background with 180deg. joint + reinforcing pad, widening adapter (up to 200cm, 2 pieces) + white PCW 200x300cm background + 200cm oval plate + bar with fixing mounts

1.3.e - FASHION background system – for creating 3D/360deg. presentations of people and mannequins,



TopShow3D FASHION is an innovative, revolutionary way of moving into cyberspace not only objects like clothes or shoes, but also people.

Simply, after placing a person or an object on a scanner and pressing 'start' button, in a few moments you will receive 3D presentation in Flash (and/or JavaScript) format, embed into website generated by the program!

Various colors of background, material and lightning allow to set all the parameters in a way, that no extra image editing is required (like removing background).

All components of FASHION set can be used with different sets/components.

Apart from regular size of FASHION background, depending on platform size, we can offer you extra large FASHION MEGA background.

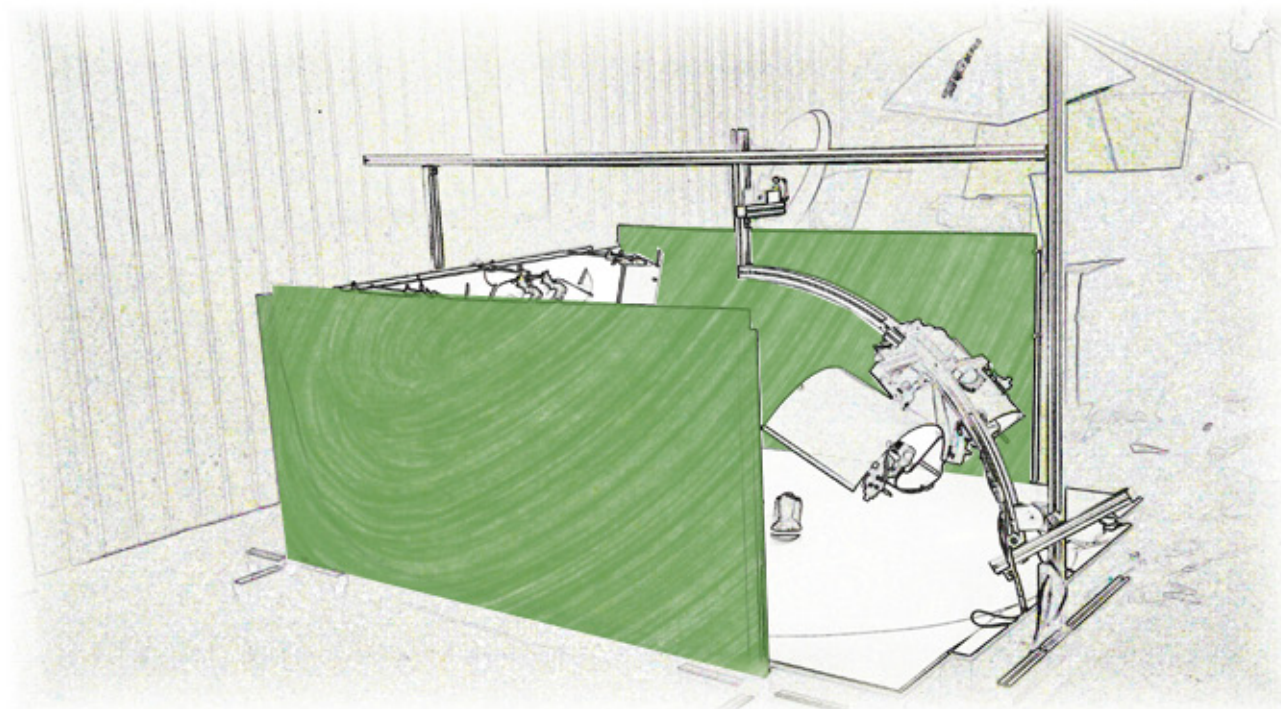


Example of TSA300 platform with FASHION MEGA background.

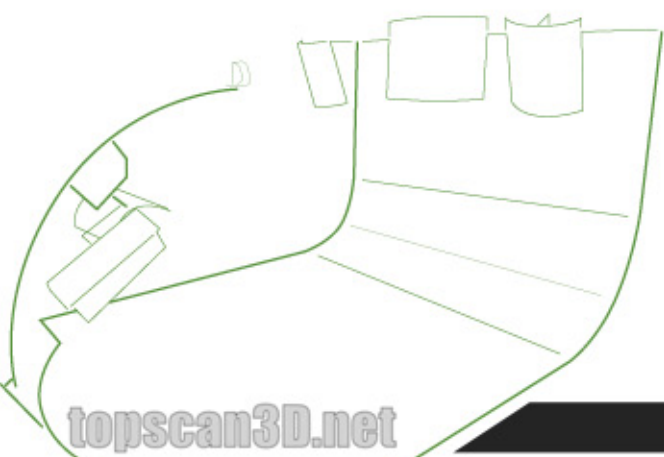
1.3.f - Background system ESD grounding



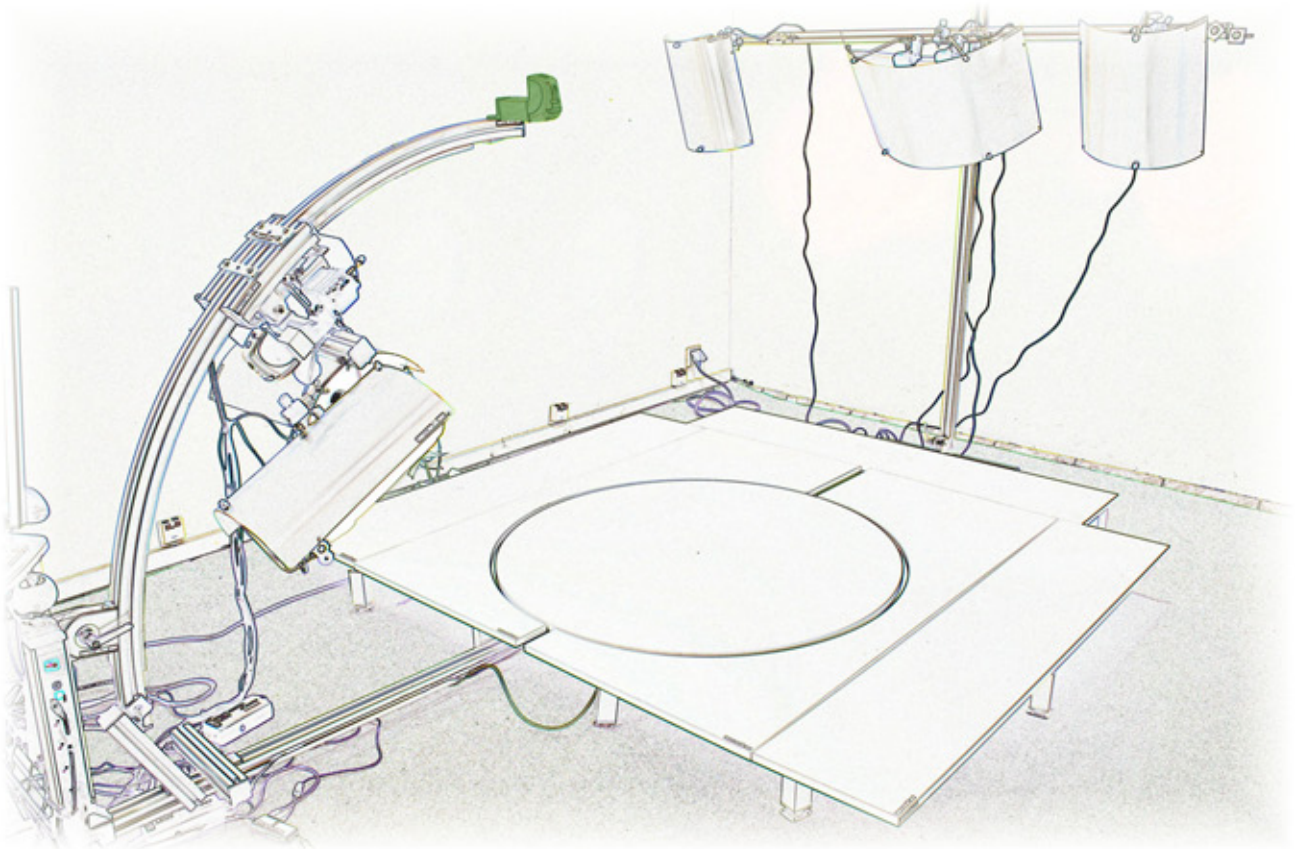
1.3.g - White, 100x200cm side background – 2 pieces, 100cm frame with channels and PCV stabilising PCV inserts, possible fixing of additional lamps lightening up side backgrounds,



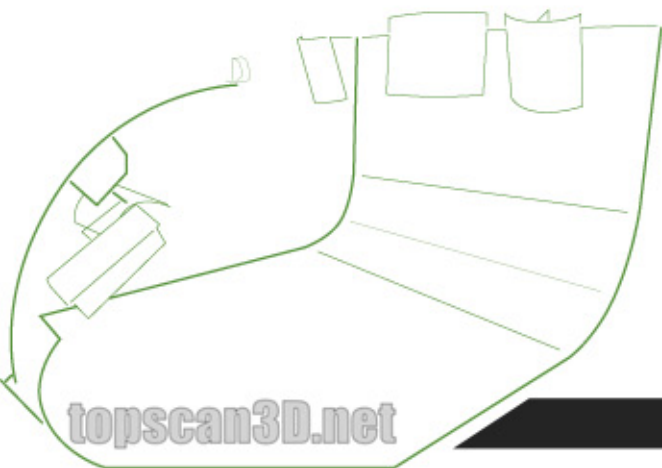
Sketch of TopShow3D set with side backgrounds marked.



## 1.4 TREE-LASE COLLIMATOR LASER



Sketch of TopShow3D set with collimator laser marked.



## 1.4 SPECIALISTIC TREE-LASE COLLIMATOR LASER

1.4 - Specialistic tree-lase collimator laser for positioning

1.4.a - Remote tree-lase collimator laser on/off control



Necessary condition when creating accurate scan and 3D/3650deg. product presentation is keeping geometric centre of rotation in one fixed point ( $x=0, y=0, z=0$ ). In this case, using special istic tree-lase collimator (cross, point, line) laser is essential.

Laser is used for scaling (calibrating) the device but also for correct positioning of scanned object. Calibrating is synchronising the device in a way where scanning area is preserved, when rotating point is covered by the object, using laser collimator is the only way to designate correct geometrical rotating centre.

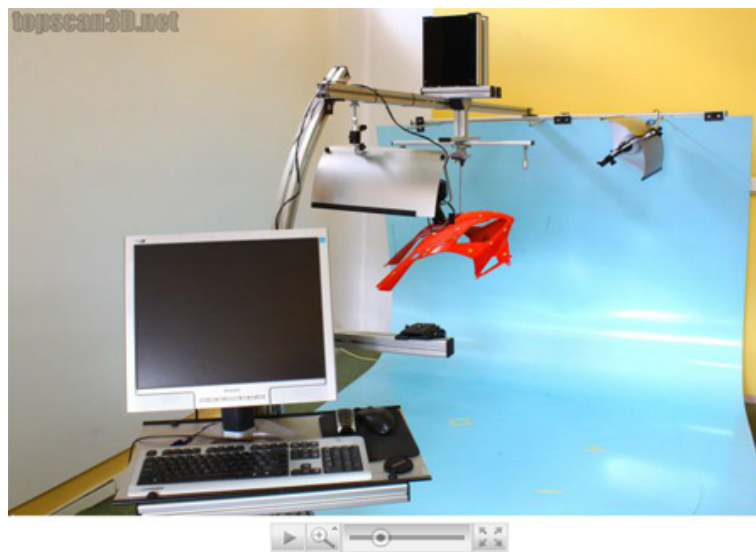
Device that is not calibrated in a right way and wrongly positioned object result in presenta tion product does not fit into to frame.

## 1.5 CAMERA MOUNTING PLATE

1.5 Plate for fixing camera with sliding mechanism with 1/4 and 3/8 inch thread

## 1.6 ROTATOR360 AUTOMATIC – SUSPENDED

- maximum 25 kg of load,
- controlled from PC/laptop (TMCL software),
- TCMC module driver,
- USB interface,
- programmable automated turn from 0,9deg.,
- programmable shutter release with (and without) interval for stopping the platform (in any range),
- programmable start/stop speed (useful when dealing with large or unstable objects),
- intelligent vibration compensating module,
- configuration and control: in dialogue, binary and assembler mode,
- can be can be mounted directly to the ceiling or by special joint connected to arc stand and rear background,



TopShow3D Rotator360 (TSR) is TopShow3D system expansion pack that allows creating 3D/360deg. presentations of objects that need to be suspended. Rotator360, which is an automated rotating unit, can be can be mounted directly to the ceiling or by special joint connected to arc stand and rear background. This type of configuration allows convenient relocating of the set without need of complicated disassembly from the ceiling.

Rotator360 can withhold objects up to 25kg. Additionally you can synchronize Rotator360 with automatic TSA turntable i.e. when dealing with unstable objects, you can attach them to the turntable which will rotate accordingly.

Thanks to rotator we can scan bottom side of the objects as well.

## 1.7 TOPSHOW3D COMPACT TSC100

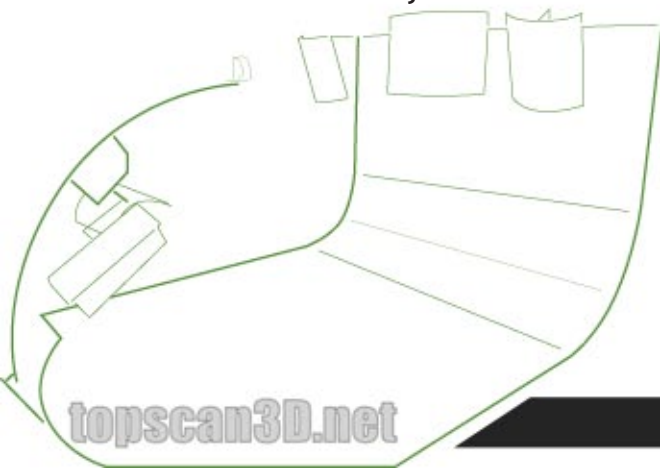


TopShow3D COMPACT TSC100 set.

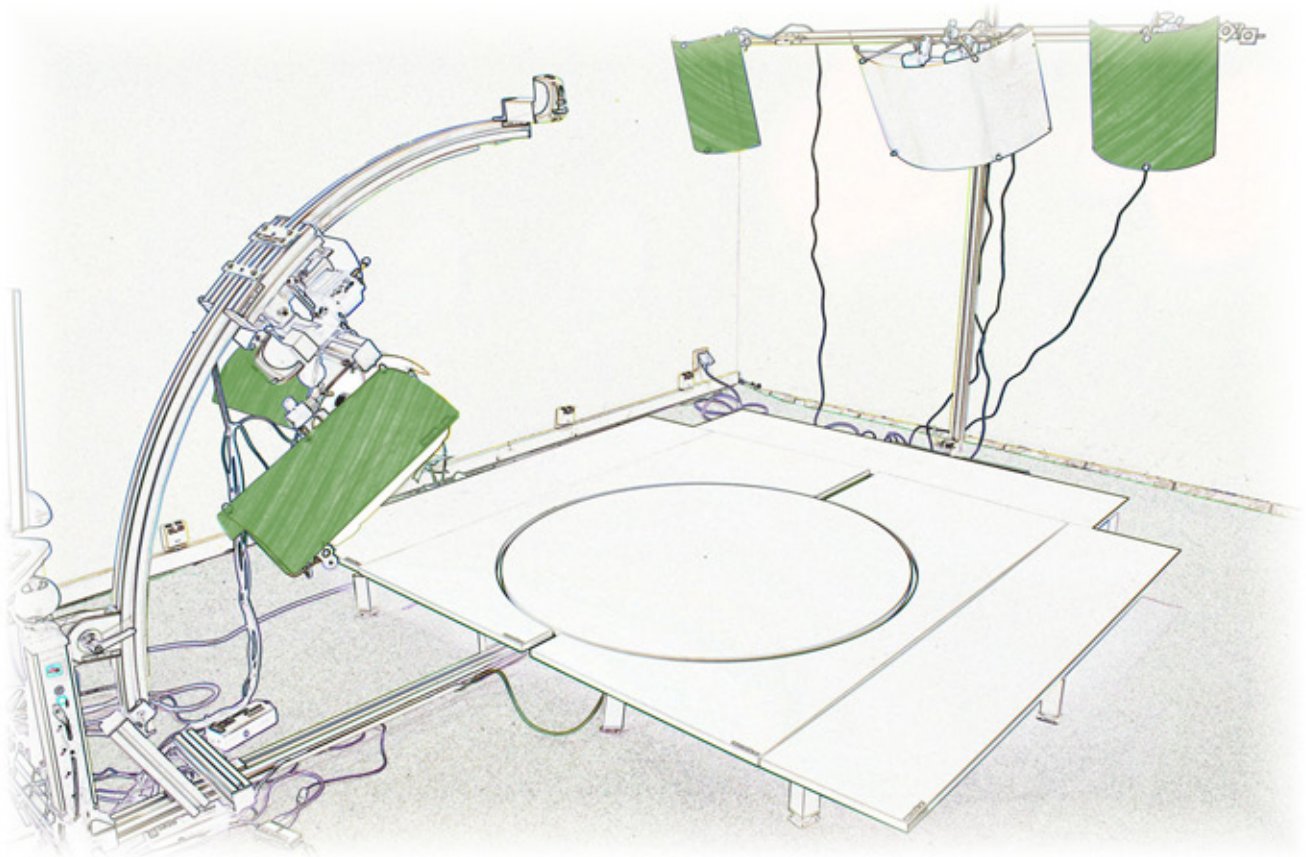
Our new compact set was designed to create 3D/360 degree presentations of small and medium size objects. This fully automated and programmable device allows creating high quality product scans in short time. Automated and synchronised with TSA80 platform camera slide can be started with one button, what makes working with the set more efficient. Solid background design saves you space, helps the light to spread evenly and you can place the device on your desk.

## 1.8 3D/MOVABLE BALL JOINT MOUNT WITH SLIDE FOR LAMPS, UMBRELLAS

1.8 - 3D/movable ball joint mount with slide for lamps, umbrellas etc.

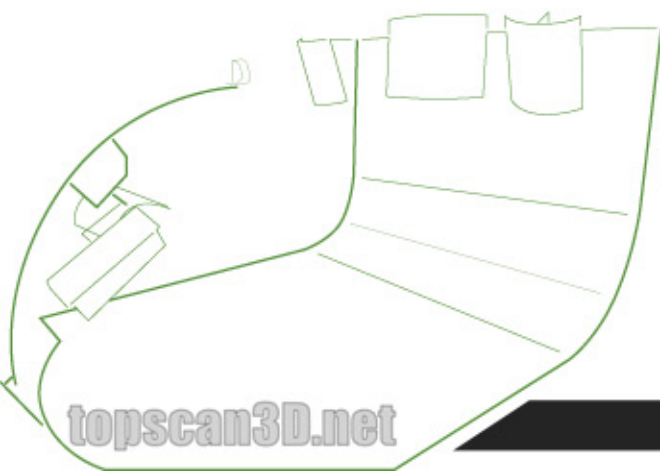


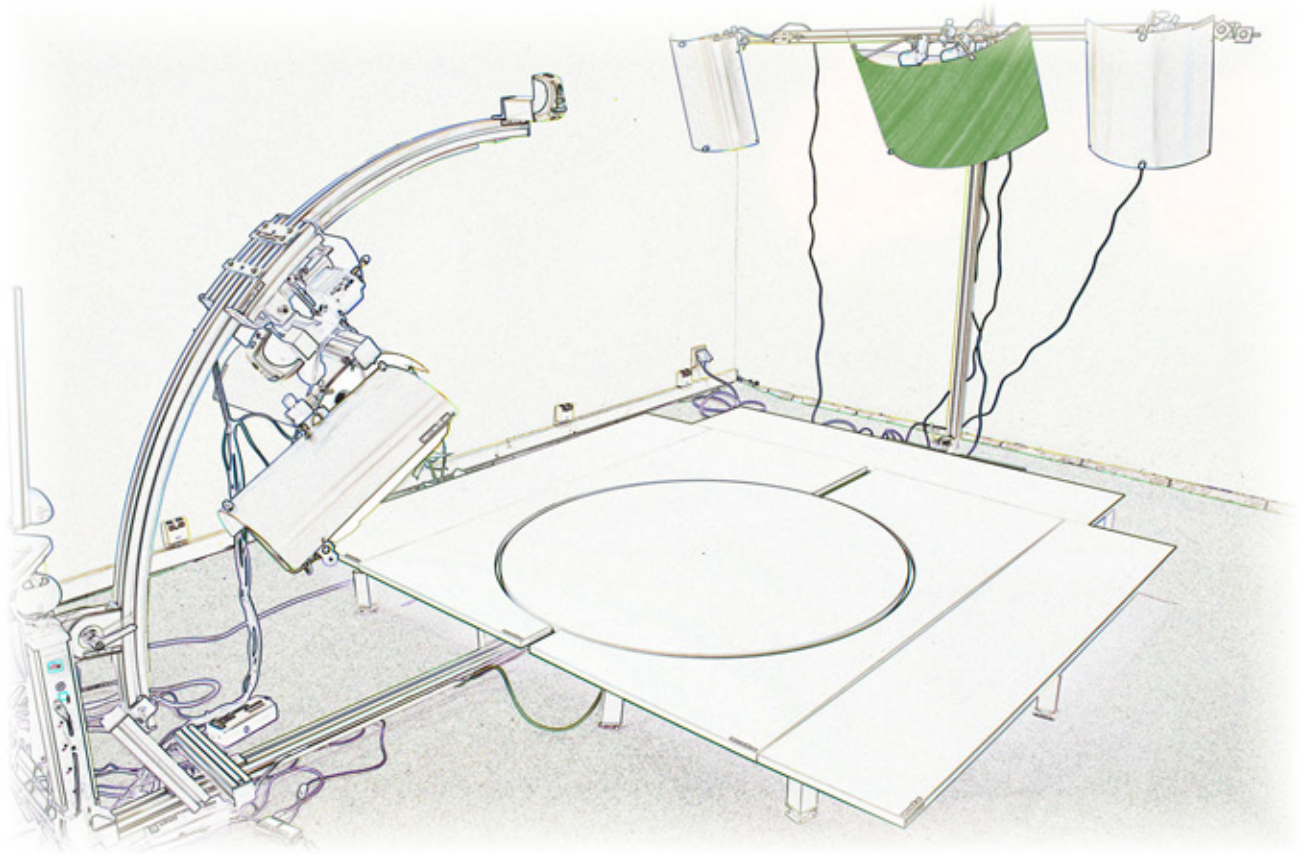
## 1.9 LIGHTING - DIFFUSION LAMPS



Sketch of TopShow3D set with single lamps marked.

1.9.2 - Single diffusion lamp, 25cm x 35cm (5400K 85W + frame + slide + rigid mounting spacer with arc and regular stand fixing option)





Sketch of TopShow3D set with double diffusion lamp marked.

1.9.3 Double diffusion lamp, 45cm x 45cm (2 x 5400K 85W + frame + slide + rigid mounting spacer with arc and regular stand fixing option).



Designed and manufactured by us lighting system is result of our scientific approach to the most important thing in photogrammetrical scanning – correct lighting. Precisely profiled background (arch) with arch-shaped reflective surface of the lamp base on multiple rays of light reflection phenomenon (using black body light absorption rule) give unique light space effect, unattainable when using other techniques i.e. traditional diffusion lamps (artistic scans of black objects places on black background). Light space effect used by us is result of multiple radius of curvature of the lamps compared to radius of the curvature of the background. Large depth of field and vividness we achieve by using additional flash of LED lamp, increasing light spectrum of emitted light into red/infra-red. Our high-tech lighting solution is energy saving and can be controlled using PC/remote, it can be also connected to shutter release interface. Our specialistic lamps can be equipped in 3D head, so you can quickly achieve right lamp position.

## 2.1 feuerball3D EDITOR SOFTWARE, main features:

- creating single axis (360deg.) and multi axis (3D) presentations
- active (linked) LOGO redirected to you website,
- clear and simple to use image editor,
- generating 360deg. animations, 3D icons and 3D banners,
- creating 360deg. interior presentations (panoramas),
- rotation control using computer mouse or keyboard,
- vertical and horizontal rotation,
- ZOOM feature with preserved high picture quality,
- HOTSPOT feature – additional interest points containing links / pictures / descriptions / functional animations,
- control keys colour change feature,
- ability to change resolution of individual animations (up to Full-HD quality),
- software compatible with all major operating systems :Windows, Mac and Linux,
- output file format: incoherent FLASH (.swf),
- generating COMPLETE HTML WEBSITE with 3D presentation!
- unlimited number of animations to generate,

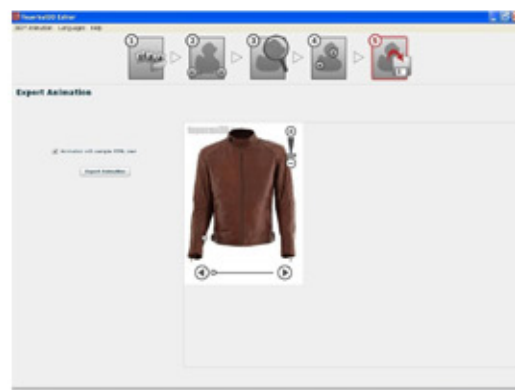
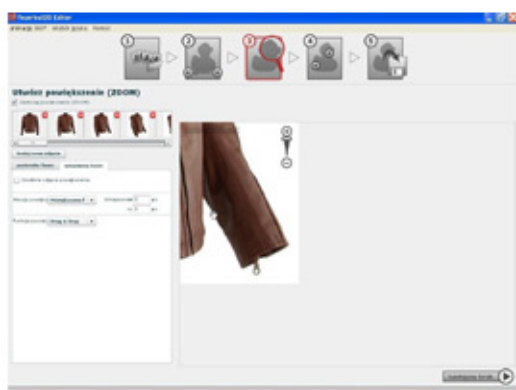
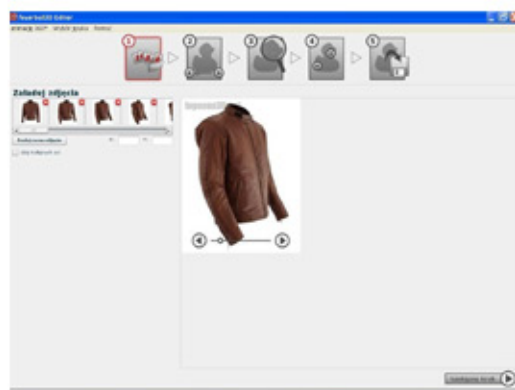
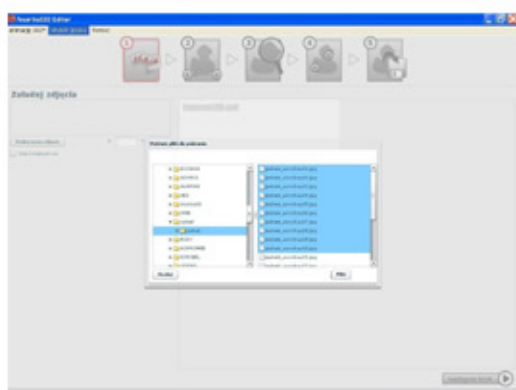
2.2 Additional option – commercial, de-branded version.

2.3 Additional logos.

2.4 Function keys layout customization (dedicated).

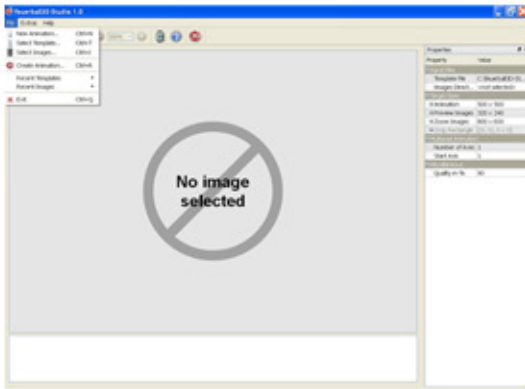
2.5 Additional feuerball3D STUDIO module for generating automatic presentations based on chosen template (prepared beforehand in feurball3D Editor) and exporting animations in Flash and JavaScript.

feuerball3D EDITOR:

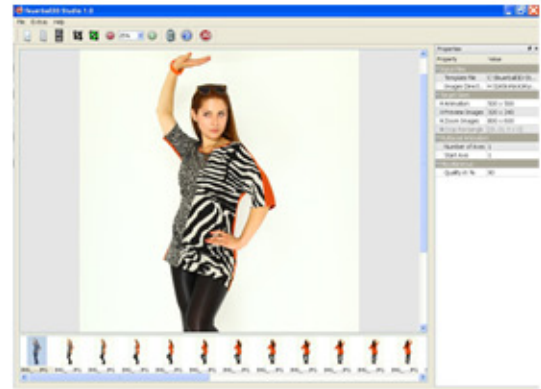




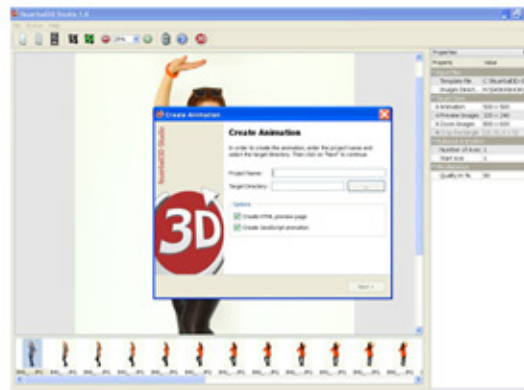
## feuerball3D Studio module



Choose template



Choose pictures



Generate Flash/HTML5 animation

## 3.0 TOPSHOW3D MOBILE

- laser 3D positioner (stereoscopic head)
- receiving element of laser beam from 3D positioner (shield) with sliding X-Y plate
- stand with pad
- arch

## 4.0 TOPSHOW3D SKY

- 4-channel aluminium profile, 40x40, length: 200cm + toothed board, two side pads with legs for levelling,
- automated carriage, programmable control + autostart with possible automated working mode, after loading binary code,
- shutter release interface
- time range (timer), full slide from 3 sec. To 12/24h,
- time range of shutter release – from 1 sec. (can be less, depends from camera settings) to 12/24h,
- main power supply

## OPTIONS FOR TOPSHOW3D SKY

- carriage slide range widen by 100cm module,
- accumulator/batter power supply – up to 24h,
- programmable, vertically controlled in 120deg. range arm with fixing and pad for camera,
- time range (timer), full slide from 3 sec. To 12/24h,
- camera rotation by 90deg., vertically and horizontally (2 axes)

## 5.0 TRAINING “Creating real objects 3D/360deg. presentations on the internet – theory and practice”

### I. 3D Era – theory

#### 1. 3D – fashion or necessity:

- worldwide trends,
- why 3D?
- 3D/360deg. presentations and sales increase

#### 2. 3D/360deg. technology:

- Poland and rest of the world comparison
- hardware + software
- manual and automated systems
- simple and affordable – presentation of ready solutions

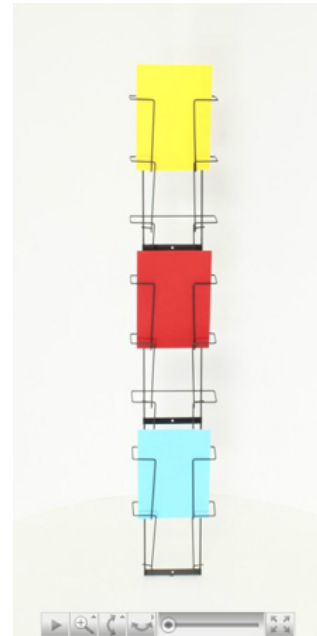
#### 3. Integration with websites:

- animations on different types of websites
- auction sites: Allegro, e-Bay
- advertising, 3D banners

### II. Workshops – Practice:

- manual and automatic scanning in Live View mode,
- the art of 360deg. scanning – photography,
- light - lighting technique (controlled from PC),
- backgrounds and their influence on 3D quality,
- simple and effective methods of digital image editing,
- know-how of scanning mirrored objects (chromed, polished etc.),
- 360deg. and full 3D – factors analysis and their influence on 3D imaging

EXAMPLES OF 3D/360° PRESENTATIONS



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