



## CASE STUDY

# Camerobots opening up new perspectives

### Three comprehensive camera robot systems set new standards in what may well be the world's most modern news studio

When the Tagesschau news bulletin made its debut broadcast from the newly opened studio at NDR on Easter Saturday 2014, the occasion also constituted a baptism of fire for a host of hi-tech equipment. Ensuring optimum presentation were an 18-meter-wide media wall and, suspended from the ceiling, three steerable camera robots supplied by Camerobot Systems.

As many as 20 editions of Tagesschau are transmitted from the studio every day, in addition to the bulletins from the digital news channel tagesschau24 and various programs in a magazine format – Tagesthemen, Nachtmagazin and Wochenspiegel. The new studio has made the static style of presentation a thing of the past. Two large desks and ample freedom of movement in front of the giant media wall allow for a much more graphic presentation of the news than ever before.

More case studies? Please visit [www.camerobot.com](http://www.camerobot.com)

Customer:  
**Norddeutscher  
Rundfunk  
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Installation: 2014



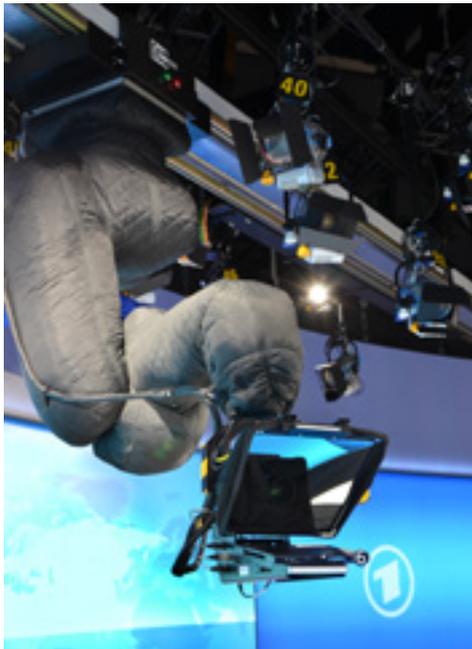
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## Camerobot solution:

### Impressive camera movements with the highest precision

A key role in this pioneering presentation of news is played by the camera robots. Suspended from the ceiling, the latest generation of Camerobots can reach any point in the studio via traversing axes. The robots facilitate spectacular tracking shots with jolt-free image sequences. Once recorded, camera movements and positions can be recalled at all times with the utmost precision (repeatability of  $\pm 0.05$  millimeters).



Time-consuming referencing or recalibration of the system is not required.

Now equipped with newly developed, ultra-lightweight yet robust teleprompters, Camerobots are automatically steered from the control room. The new camera robots are totally compatible with camera systems supplied by different manufacturers and can be jointly operated from a director's console. The studio itself is given over entirely to newsreaders and robots, i.e. there are no cameramen. A safety system constantly monitors the area occupied by the presenters.

The new generation of Camerobots offers unlimited creative scope, delivers stunning images and unique camera angles. Camerobots thus make a decisive contribution to a modern, viewer-oriented presentation of the news whilst at the same time keeping costs down.

## Technical specifications

- 3 Camerobot systems on linear tracks (6.5m, 8m and 12m reach)
- Repeatability of positions  $\pm 0.05\text{mm}$
- VR interface to ORAD system
- Shotoku TR-B control for manual steering
- Camerobot teleprompter systems
- Mosart Automation System
- Redundant IT systems, including RAID

### New and innovative RoboKam Atelier user interface:

- Collision detection system between Camerobot and Shotoku TRP 100 Robotic Pedestal
- Simultaneous operating from three separate consoles
- New Matrix user interface for the control of robotic systems

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