

APS

Fusion Absolute Positioning System

Accurate Automated Pedestal Navigation

Across the entire studio floor



APS

Fusion Absolute Positioning System

Unrivalled accuracy of studio robotic pedestal movement wherever you want to go

Fusion Absolute Positioning System (APS) is a unique, precise pedestal positioning technology that further reduces time, maximises studio flexibility and allows greater on shot accuracy from your robotics system.

Fusion APS enables the freedom of moves continuously across the entire studio floor. Pedestal pre-set shots are as consistently reliable as head only moves and can accurately enhance different show styles with more pedestal movement. APS allows almost instant targeting and can be greater than 50 times faster than traditional floor targeting routines.

Maximise studio flexibility:

- + Fast start-up
- + Exact movement to pre-set shots
- + Fits any studio layout
- + Immediate positional data

Enhanced Freedom:

- + Smooth on-air movement
- + Camera moves across the whole studio floor
- + Discreet targets, no light reflection



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Instantly ready from the moment it is switched on, **Fusion APS** eliminates the need for tracks or traditional floor target positional referencing. The precise and consistent positional updating removes the need for manual trimming. No need to be concerned about the pedestal orientation.

Fusion APS targets can be discreetly fixed to the wall and matched to the studio size and layout. Targets can be colour matched to discreetly blend within the studio. A simple mapping procedure allows targets to be moved at any time to suit changing requirements of the studio or expansion plans.



+ Fits to existing fusion pedestal

+ Manual performance unchanged

+ Track free

+ Constant referencing from any position

+ Instantly ready when switched on

+ Zero accumulated error

Saves Costs:

- + Retrofit APS to existing Fusion pedestals
- + Reliable shot recall, no manual trimming
- + Enhances automated playout systems where there is no operator to trim shots
- + Simple and quick to use; no specialist knowledge or tools required

How Fusion APS works

The **Fusion APS** infra-red laser-scanner identifies targets within the studio environment and communicates its positional information back to the pedestal electronics. Targets can be free standing posts or wall mounted and modified to colour match the studio.

Fusion APS requires a minimum of three targets to be seen at any time by the laser scanner to determine its position. These must be within a 30m range. Larger studios are accommodated by simply adding more targets. The system is more accurate when more targets are seen by the laser scanner; the average studio is recommended to have a total of 6 to 10 targets.

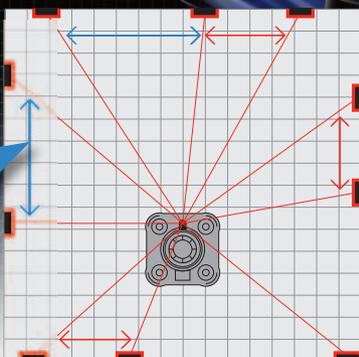


The Fusion APS fits on any Fusion pedestal



During installation the targets are auto-mapped and saved for up to 10 different studio layouts.

The pedestal is designed to keep working if the laser scanner is unable to determine the position because of target occlusion. It automatically and seamlessly brings the laser scanner back online when the targets become visible again.



Example of a good target layout

+ Discreet, flexible target placement



Flexible Installation Options

Existing Fusion Vinten Radamec pedestals **FP-145** and **FP-188** can be easily upgraded with **Fusion APS** either locally on site or at our factory. It is available as an option on all new **FP-188+** and **FP-210+** pedestals.



To find out more about **Fusion APS** get in touch with us now.

First Class Global Service and Support

Vinten Radamec robotic systems are backed by Vinten Radamec global support.

Installation:

- + Configuration via web browser makes the APS system easy to install
- + Choice of APS upgrade on site or factory fit

Service and Support:

- + Dedicated local support to keep you on air
- + Extended hours (24) remote support
- + Super-fast swap out options
- + Dedicated stock of spare parts



Vinten Radamec's exclusive **ICE** technology combines acclaimed software and mechanical Engineering, to deliver the highest viewing standards.



Technical Specifications:

APS scanner

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| Dimensions: | H: 257 mm (10.1 in) L: 211 mm (8.3 in) W: 177 mm (7.0 in) |
| Weight: | W: 3.7 kg (8.2 lb) |
| Power: | |
| DC power input | 24V DC (supplied directly from the pedestal) |
| Environmental: | |
| Temperature range (operation) | 0°C to +40°C (32°F to +104°F) |
| Pedestal Accuracy: | |
| Pedestal X/Y accuracy | ±25 mm (1.0 in.) |
| Pedestal angular accuracy | ±0.1° |
| Laser Scanner: | |
| Laser light wavelength | 905 nm, infrared, eye safe |
| Laser Compliance: | |
| <ul style="list-style-type: none"> • Complies with laser class 1 in accordance with IEC 60825-1 • Complies with 21 CFR 1040.10 and CFR1040.11 except for deviations pursuant to laser notice No.50 dated June 24th, 2007 | |
| System Compatibility: | |
| Supported VRC versions | V1.60 upwards |
| GUI | web browser based |
| Internet protocol | TCP/IP Version4 |
| Network software | Windows XP, Windows 7 |

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| Part Number - Pedestal | |
| V3952-0007 | FP-188+ pedestal (85kg (188lbs) payload) pre-installed with APS |
| V3952-0005 | FPR-210+ pedestal (95kg (210lbs) payload) pre-installed with APS |
| Part Number - Fusion APS upgrade for FP-145 and FP-188 pedestals: | |
| V4109-0001 | Fusion APS upgrade kit - Upgrade existing pedestal |
| Part Number - Target Reflectors | |
| V4109-1012 | Cylindrical floor standing APS target (for colouring) |
| V4109-1013 | Cylindrical floor standing APS target - black |
| V4109-1014 | Flat wall-mounted APS target (for colouring) |
| V4109-1015 | Flat wall-mounted APS target - black |

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