

WWW.STYPE.TV

OBJECT, TALENT AND CAMERA TRACKING

FOR XR, AR, VR PRODUCTION
IN TV AND FILM



Television
Academy



PROUD WINNER OF THE
ENGINEERING, SCIENCE & TECHNOLOGY
EMMY® AWARDS



v1.8

FOLLOWER - INTRODUCTION

Follower is an all-around tracking system by stYpe that can track talent, objects, and cameras. Tracking talent and objects enables you to treat virtual elements like physical objects - you can control them directly using your bare hands, in real-time. Follower's camera tracking capability means you can move the cameras around the set as you please, without needing a separate camera-tracking system. Follower works by attaching LED beacons, smaller than a fingernail, to talent, objects, or cameras whose position and orientation you want to track. The beacons used are active or passive. The system's infrared cameras detect super-fine positional and orientational data of the LED beacons which enable you to use that information to track your cameras while injecting extra magic into your graphics! Graphics can suddenly be interacted with, and presenters no longer have to steer away from them like from the plague, which is something they usually do to avoid looking funny. Follower works great indoors as well as outdoors in bright sunlight.

USE ON TV SETS

Tracking people and objects means you can do much more interaction with virtual objects than you were used to so far. A wooden stick in your hands can be tracked and turned into Thor's hammer, a tea cup can become World Cup trophy, and so on. Captivate your audience and make your TV show a magical one. On top of that, all of your studio cameras are tracked too!

USE ON FILM SETS

Make your virtual scenes easier for post-processing by tracking regular physical objects and later easily turn them into virtual ones. Get exact positions of your actors, cameras and objects, store the data in FBX and XML file format, along with LTC timecode, and make magic happen in post-processing with much less effort than you were used to.

CAMERA SPECIFICATIONS



SPECIFICATIONS

WEIGHT	0.5 kg
DIMENSIONS	7,5 x 9,5 x 9,5 cm
POSITIONAL RESOLUTION	< 0.2 mm
MINIMUM NUMBER OF CAMERAS FOR OBJECT TRACKING	4
MINIMUM NUMBER OF CAMERAS FOR OBJECT & CAMERA TRACKING	8

MAIN SERVER SPECIFICATIONS



SPECIFICATIONS

WEIGHT	2.2 kg
DIMENSIONS	19,6 x 22,5 x 8,5 cm
DATA DELAY	5 ms (0,25 frames on 50 fps)
RACKABLE MOUNT	YES
POWER	REDUNDANT POWER SUPPLY

TECHNICAL SPECIFICATIONS - RECEIVER MODULE



NUMBER OF LEDs	12	4	1	1	4
BATTERY	12 hours	8 hours	4 hours	6 hours	4 hours
CHARGING	Type C	Type C	Type C	Type C	Type C
PUSH BUTTON	No	No	No	Yes	No
DIMENSIONS	10,4 x 7 x 1,7 cm	11,4 x 4,4 x 1,6 cm	3,6 x 3,4 x 1,05 cm	Φ1,6 x 11,6 cm	26,3 x 19,4 x 1,8 cm
WEIGHT	0.182 kg	0.136 kg	0.021 kg	0.024 kg	0.410 kg

NOTE:
CUSTOM RECEIVER MODULES CAN BE DEVELOPED FOR YOUR PROJECT (NUMBER OF BEACONS, BATTERY LIFE, ETC.)

SPYDER MODULE - CAMERA TRACKING COMPONENT

Spyder module is a special add-on for the Follower to enable camera tracking. It consists of a number of LEDs mounted directly onto the camera so it can track the camera's 3D position and orientation. Spyder module also encompasses an interface to read the lens data from the lens internal encoders, or by using the external encoders which are a part of the Spyder module package.



Spyder module uses a lot of the same electronics developed for our stYpe's RedSpy - the world's most successful tracking system nowadays. This takes the robustness and reliability of Spyder to another level and unmatched precision.



SUPPORTED LENSES



CANON DIGITAL CABLE

Ability to read the data from the virtual encoder.

Suitable for IASE, IRSE and BOX lenses



FUJINON DIGITAL CABLE

Ability to read the data from the virtual encoder.

Suitable for Portable and Box lenses equipped with Virtual Connector



OTHER LENSES

stYpe external Zoom and Focus encoders can be easily mounted on lenses that do not have internal encoders

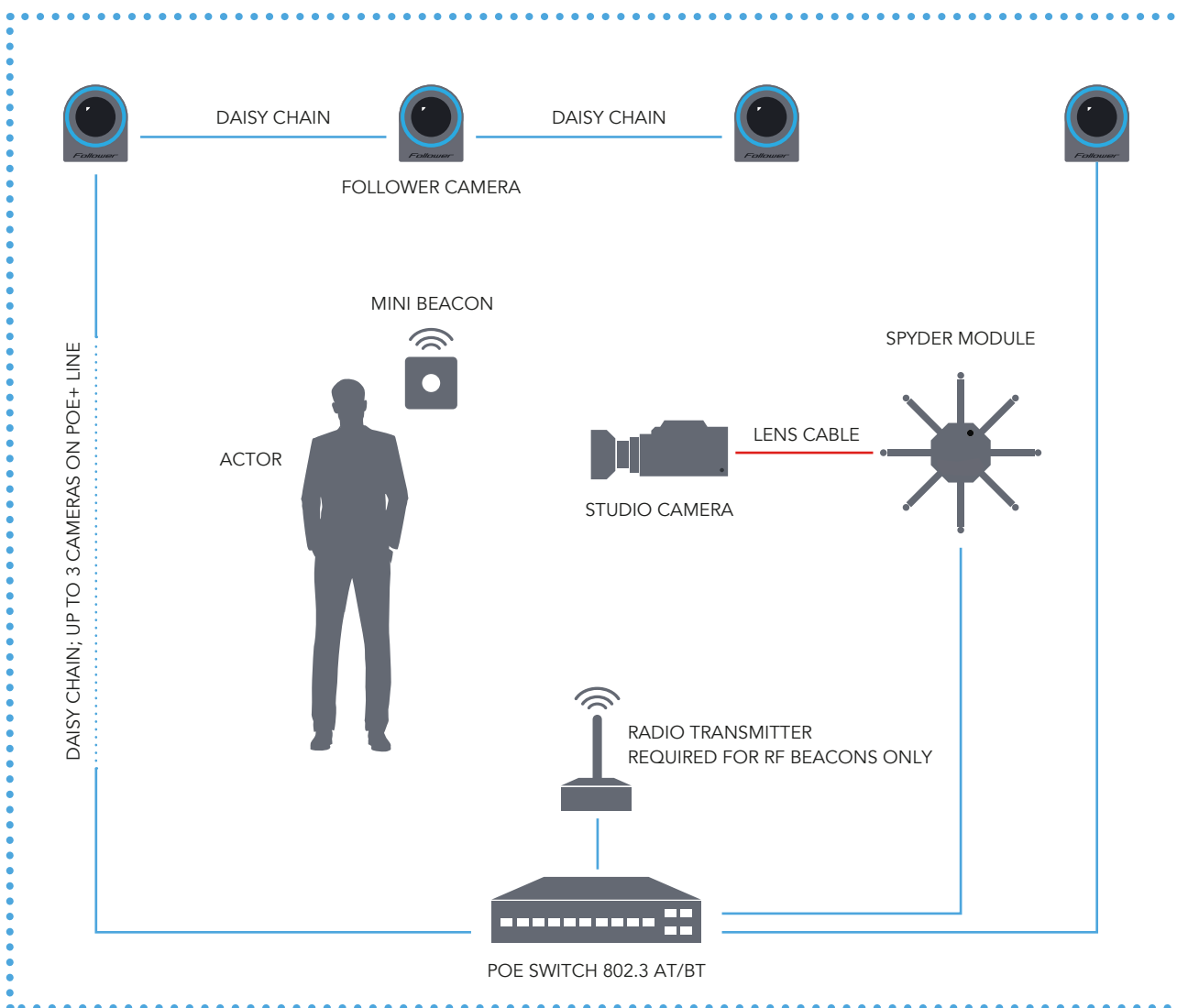
TECHNICAL SPECIFICATIONS - TABLE

INSTALLATION TIME	Rigging of cameras + 5min for calibration
DATA CONNECTION	UDP over IP
DATA RECORDING	Suported in XML or FBX format.
PROTOCOLS	STYPE HF, RTTrPM, PSN
SUPPORTED ENGINES	UNREAL, UNITY, VIZRT, PIXOTOPE, STYPELAND and others
DRIFT	System does not accummulate any drift
WARRANTY	1 year warranty

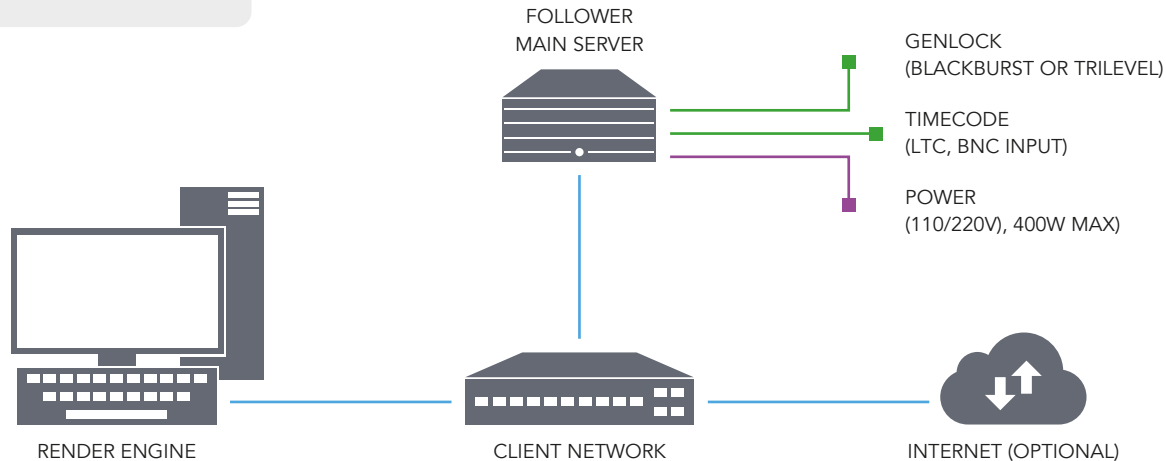


FOLLOWER CONNECTION DIAGRAM

FOLLOWER REQUIRES ISOLATED NETWORK



- LENS CABLE
- CAT6 OR HIGHER
- BNC CABLE
- POWER CABLE





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