

Encoding Package for Egripment Cranes



With the increasing demand for Virtual Studios as well as use for Augmented Reality, Egripment offers now a High Quality Encoding Package to be used with Egripment Cranes for VR-Applications.

Based on the classic TDT Crane System and the 305/306 Remote Head, a fully encoded system is now available. High precision encoders in the crane arm and remote head, as well as optional encoders for use on the crane dolly on track, in combination with a superior tracking interface, Egripment delivers the answers for the market's demands.

Camera cranes for VR-Application are usually situated in the high end price segment of the crane market, very often unaffordable for the end user. The Encoding Package for Egripment Crane delivers high quality and reliable crane operation in a much more affordable price range, while

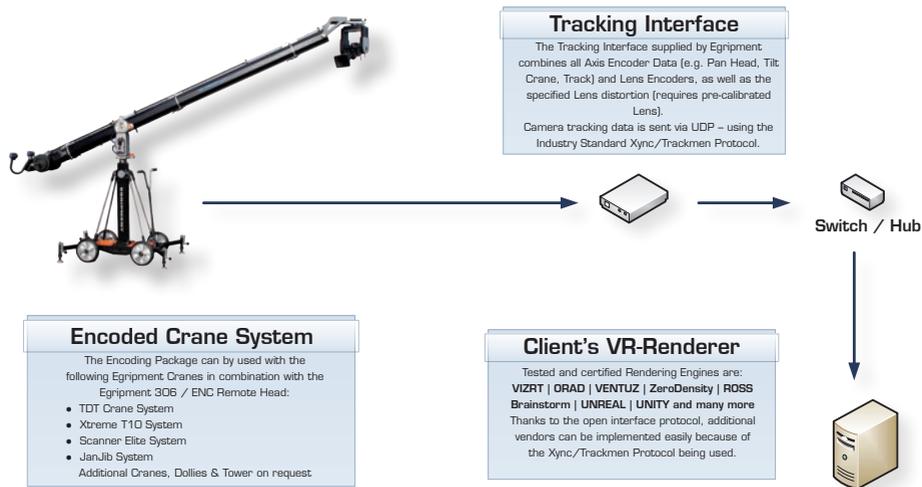
maintaining the same high standards that Egripment is known for.

The Egripment engineer's goal from the beginning was not only to offer the TDT Crane Arm System in an encoded version but also to give existing owners of Egripment cranes the possibility to upgrade their crane arm with this encoding package. This is a simple solution to a complex problem. The encoding upgrade can be used with the TDT Crane Arm, the Scanner Classic Arm, the Scanner Elite Arm as well as the JanJib System.

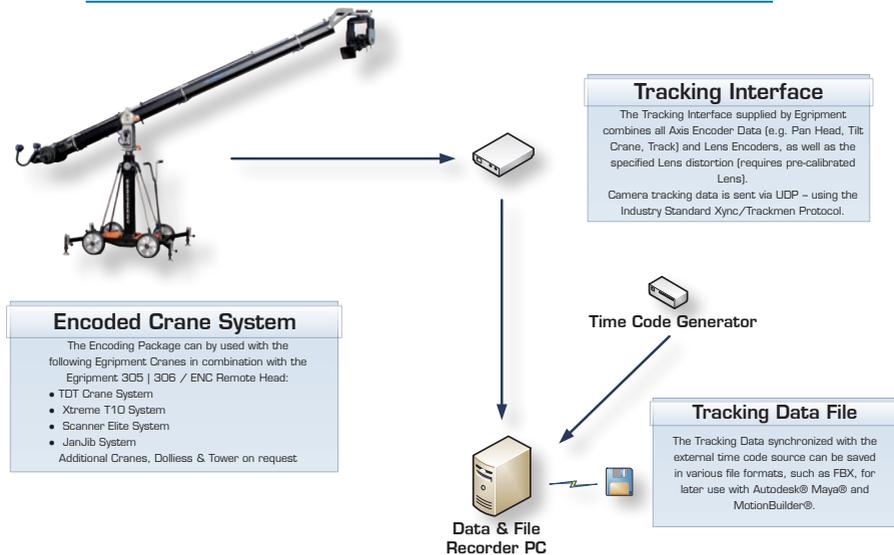
The tracking interface provides information obtained from all measured axes via a simple interface.

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TOPOLOGY FOR LIVE TRACKING



TOPOLOGY FOR FILE BASED WORKFLOW



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Technical Specifications

Crane Arm Encoder

Boom Pan & Boom Tilt identical

Encoder Resolution	360.000 Counts/Rev
Total Encoder Revolutions per Axis	3
Resolution per Axis	1.080.000 Counts/Rev

All data are subject to change without notification.



306 Remote Head Encoder

Head Pan & Boom Tilt identical

Encoder Resolution	8.192 Counts/Rev
Total Encoder Revolutions per Axis	182
Resolution per Axis	1.490.944 Counts/Rev

All data are subject to change without notification.



Tracking Interface

Maximum Encoder Inputs	8
Additional Serial Lens Encoder Input	1
Tracking Data Signal Output	UDP via RJ45
Tracking Protocol	XYNC/Trackmen
External Sync	Black Burst, Tri-Level

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The position of each axis is thus completely and reliably received by the graphics software or some other application software. The position data is sent via an

Ethernet network. Thus, multiple interfaced electronics can be operated on one network. The tracking data can be easily integrated with the graphics software of leading manufacturers of virtual studio systems and graphics systems.

The camera data mode, delivering superior tracking data, where the camera parameters (e.g. FoV, XYZ, PTR) are calculated at the interface electronics

itself. The absolute position measurement saves you from the need for homing or further calibrations.

In addition to „live-streaming“ of the Tracking Data to VR-Rendering machines the Tracking Data that are synchronized with an external time code can be recorded with an external device to a file for later use in animation software such as Autodesk® Maya® or MotionBuilder®.



EGRIPMENT
CAMERA SUPPORT

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Track Encoder Upgrade



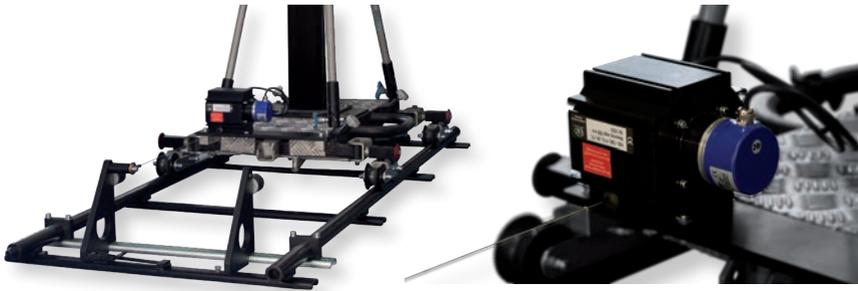
For all existing and newly encoded Egripment Jib Arms (such as the JanJib Encoded) and Cranes (like the TDT Encoded) with the Scanner Dolly, as well as the Xtreme T10, Egripment offers an upgrade kit for the use of the system on track in virtual and augmented applications.

The Package consist of a high resolution, spring loaded draw-wire encoder assembled on a special mounting bracket, a set of track wheels and a steering locker support to obtain maximum precision while traveling on track.

The wire draw encoder is available as standard for measuring ranges of 7,5 m (24.6 ft) and 15 m (32.8 ft). Other ranges on request. Larger ranges cover the shorter range as well.

This package is designed to be added to the existing Egripment Scanner Dollies and Steel Track without the need for mechanical modifications.

In combination with the Surveyor Tool, the track can easily be relocated.



Specifications:	Art.: 298/DENC
Encoder Type	Spring loaded draw-wire sensor
Range	7,50 m (24.6 ft) 15 m (32.8 ft)
	other ranges on request

Surveyor Offset Kit

In many studios the calibrated crane is standing at a fixed position in the green or blue box. But these days, studios are used for different types of formats and programs, requiring different positions for the crane and its dolly.

This would result in an offset of the studio setup at the rendering machines. Recalibration is time consuming and requires special skills for the end user.

Egripment offers an Add-on, called Surveyor Offset Kit. The kit offers a software and hardware upgrade to new and existing encoded systems. The hardware, a special laser pointer bracket, mounted to the front of the crane or jib arm helps the end user to point to previously established and measured reference points in the studio.

As these reference points and their absolute coordinates are known by the Surveyor software, installed in the Egripment tracking interface, the end user simply has to point to at least 5 of these reference points and push the "Grab" button on the touch screen of the tracking interface and indicate the number of the reference point (e.g #4). Once these steps are done, the software generates a new offset and sends the tracking data with the new studio offset to the rendering machines.

No special skills of the studio crew are needed, simply point the crane or jib arm and push "Grab" - making it simple and cost effective for daily use.

FBX Plug-in

Additional to sending the tracking data live to third party rendering machines (ORAD, VIZRT, Brainstorm etc.) the FBX Plug-in offers you to ability to record the tracking data to an Autodesk Maya © & Motion Builder © readable FBX file.

This software Plug-in can be added afterwards and offers a simple Record Button and FTP Server at the tracking interface.

The time code, mandatory to sync the tracking stream will be inserted using the serial port of the Egripment tracking interface. Vendors such

as Alpermann+Velte offer time code signals via serial connection.

The Record/Stop button, available on the Touch screen of the interface gives you a user friendly ability to record and stop your tracked move.

Once the tracking stream is recorded, the FBX file is in the network and available via FTP Server of the Tracking interface, ensuring simple and easy workflow on the set.



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