

**HiV<sup>ision</sup>**  
**CRANE OPERATION**  
**FOR NEXT GENERATION FOREST PEOPLE**



**JONSERED**



**LOGLIFT**





# PERFECT VISION

HiVision™ is a new way of operating your forestry crane, using camera-based vision technology. It is also a smart way of working more productively, increasing payload and saving fuel.

With HiVision™, you operate your crane as you've always done, using the controls you've grown accustomed to over the years.

The only difference is that you see the work area in special 3D video glasses. The feeling is so natural you'll hardly be able to tell the difference from reality.

HiVision™ offers you many important benefits. You will get more useful hours out of your working day because you can stay in the truck cabin and work from there.

You will be able to increase payload as weight is freed up without a crane cabin. In addition, improved loading opportunities make it possible to transport more effectively and to save fuel.

Not to mention the comfort of staying indoors on a cold or rainy day. Just sit down behind your controls, put on your glasses and start working from the comfort of the truck cabin.

You'll experience a feeling of being there. The field of view is extended beyond 180 degrees, thus providing excellent peripheral vision. The elevated cameras give you a sense of overview and control of the work area.

Vision technology has been greatly refined in recent years. HiVision™ offers you a completely immersive feeling, like looking at the work area in direct vision. It is therefore very easy to get started and work productively with HiVision™.

The technology is here now. Try it today. Perhaps your next crane will be controlled using HiVision™.







“ I’ve got the forest in my blood. My dad used to take me with him to work when I was a kid. I knew from the start I belonged in the forest. Well, here I am, with my own truck and forestry crane.

I remember how dad used to run around like crazy fixing things before getting started. Even though he did have a crane, there were so many things to take care of. It’s a whole lot different today. We’ve got technology on our side.

And you get more comfortable every year. It’s hard to imagine how I used to work from a high seat only a few years ago.

Now I’ve been using HiVision™ for about a week. The first time I put on the glasses, I thought: “this is going to be tricky”. But it turned out to be surprisingly easy, and after only a few days, it felt like the most natural thing in the world.

Now I have a lighter crane, which means that I can load more logs. That’s why I chose HiVision™ in the first place. That extra payload means more money in the pocket.

But I must admit I also like the idea of staying in the truck to work. After all, we’ve got winter six months up here in the north, and rain another two months. Well, more or less anyway.





There is something eternal about the forest.  
We share your passion for the forest.  
After all, it's where we live and work.  
For generations.



# BASED ON NATURAL VISION TECHNOLOGY: OUR OWN

HiVision™ lets operators see a camera view of the physical reality through their special 3D glasses. They operate their crane using conventional crane controls mounted in the truck cabin.

We have imitated human vision. The human 3D vision is based on our two eyes being slightly separated from each other. Our image of reality is then constructed by our brain, which combines information from our left and right eye to create our depth perception.

HiVision™ works the same way. By placing cameras at a certain distance from each other and combining their left and right field of view, we create a sense of 3D inside the glasses. The operator therefore experiences a field of view very similar to the real-life situation.

A special cam on each side of the truck helps the operator to carefully monitor the support legs being extracted and folded away.

Camera overlap

## How it works

With HiVision™, your crane cabin is replaced by a machine vision system. Using high-quality cameras, the view from the optimal vantage point is captured. The operator uses a Virtual Reality (VR) head-mounted display and sees a clear view of the loading area.

The forward view is captured using two cameras in high-quality stereoscopic 3D. Side cameras capture the surrounding view, allowing the operator to look around just as easily as from the crane cabin. Using image processing algorithms, vision is enhanced for improved contrast and image quality even in difficult lighting situations.

Essential information about the truck and crane system is displayed in a heads-up display overlay, making it always available without obstructing the operator's view.



# JOIN THE HiVision™ MOVEMENT

Right now, the use of video glasses is exploding in industrial applications. We developed HiVision™ in the same spirit of forward-thinking.

Alongside VR (Virtual Reality), vision technology and video glasses are becoming more and more advanced. Therefore, the threshold for users wishing to shift to HiVision™ is surprisingly low.

Using HiVision™, your field of vision is camera based, otherwise your way of working will remain exactly the same as it is today.

HiVision™ is based on mature technology that has been proven in commercial use. So it's safe

to say it works. However, technology merely creates the opportunities – what really matters is the user's experience. And that's subjective as we all perceive things differently. "Will I feel intuitively what's 20 yards away?" "Will I detect things sharply in my peripheral vision?"

We have tested HiVision™ extensively. Now we invite you to do the same. So why not join us – and help shape the future of our industry?

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I'm impressed by the great view of the work area. It's even better than from the crane cabin.



VR, camera and vision technology have developed rapidly in recent years. That makes it easy to get started and work productively with HiVision™. Come and test it yourself!



# BUILT TO PERFORM

Hiab is the world's leading provider of on-road load handling equipment. Customer satisfaction is the first priority for us. Hiab's product range includes HIAB loader cranes, JONSERED recycling and forestry cranes, LOGLIFT forestry cranes, MOFFETT truck mounted forklifts and MULTILIFT demountables, as well as DEL, WALTCO and ZEPRO tail lifts.

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