



# Video super resolution

AI-based technology to convert and upscale video stream into higher resolution and quality with superior output result compared to standard upscaling. Preserves image details while increasing the video frame size.

- Optimized for presenting low-resolution content on high-definition display
- Upscale up to 4K / 8K resolution
- Enhances video quality
- Restoration and modernization of archived content
- Reduces compression artifacts and noise effects

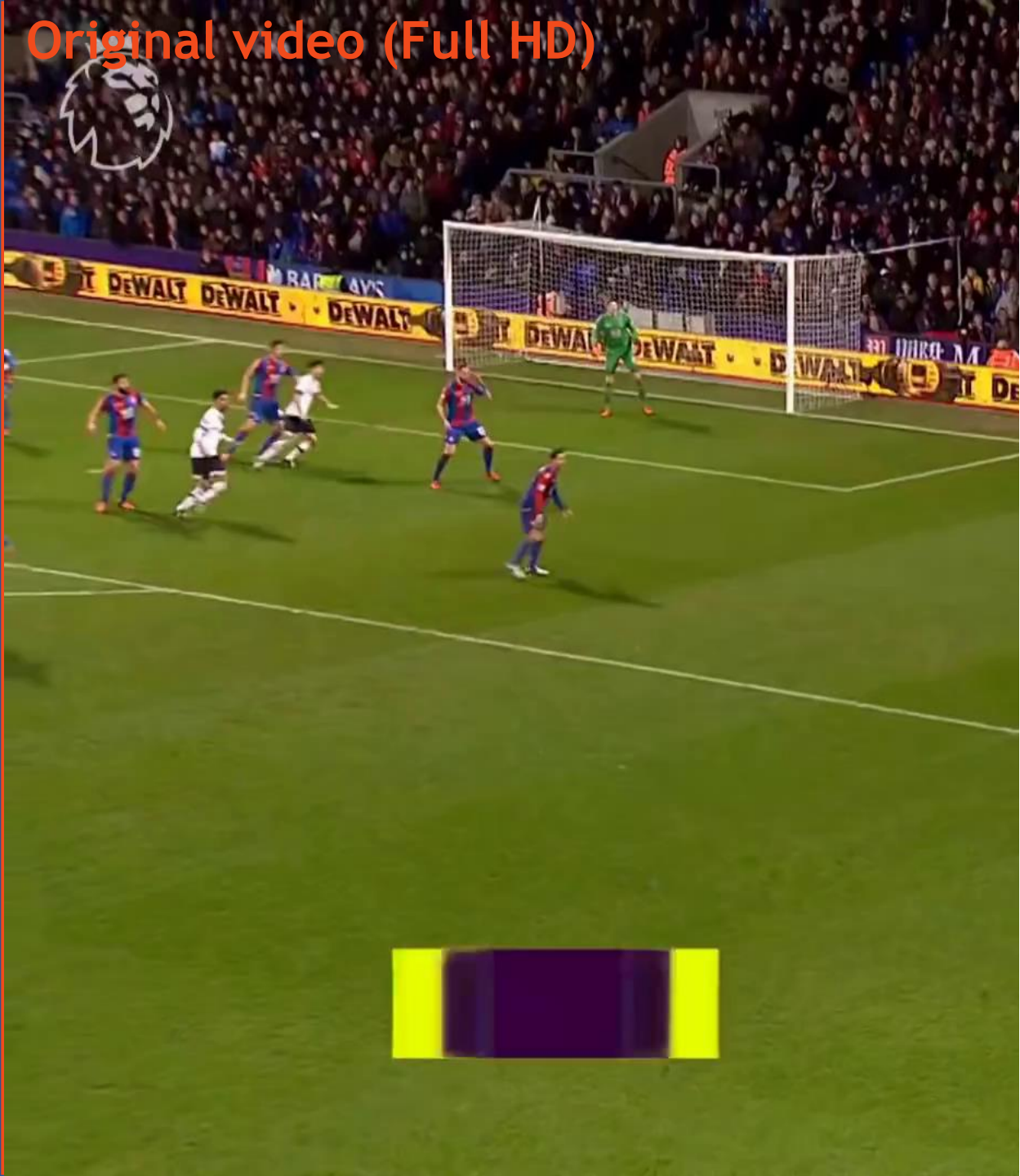


Original video (Full HD)

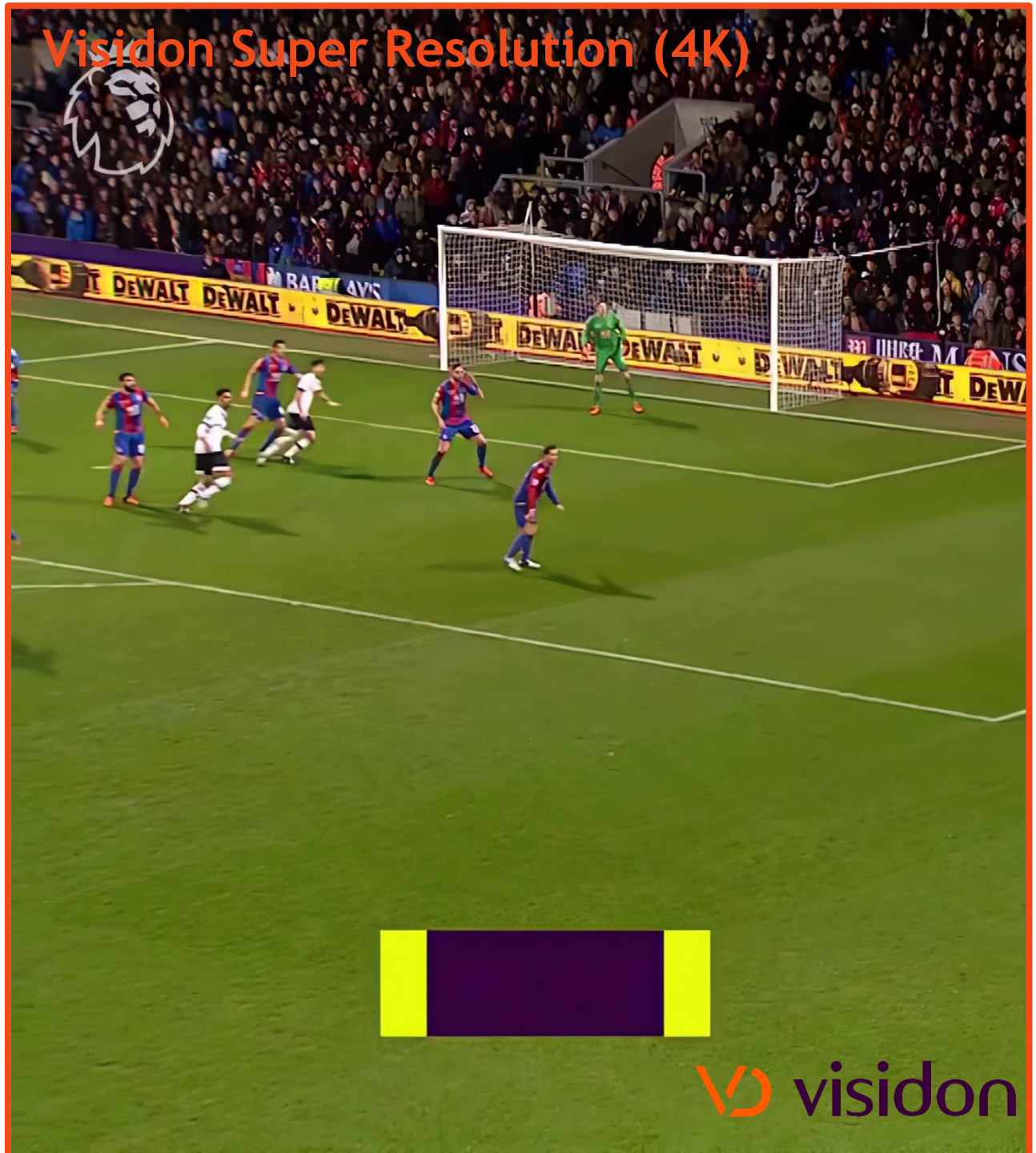


Visidon Super Resolution (4K)

Original video (Full HD)



Visidon Super Resolution (4K)



# Traditional upscale methods vs. Visidon upscale

## Compared to traditional remastering

- Remastering into higher definition slow and expensive
  - The original film has to be scanned digitally frame by frame
  - Manual color and image correction
  - The process can be rarely justified from business perspective

## Compared to device-based (display / TV) upscale to higher resolution

- For example, full HD resolution (720p) is only 5% of the pixel count of a 4K screen
- A 4K TV is enlarging each frame 20 times in order to fill the entire 4K screen. This usually results in a blurry image.

## Compared to standard upscaling (e.g. bicubic upscale)

- Standard upscaling causing e.g. ghosting, blurring and distortion, flickering

## Visidon AI upscale / super resolution

- AI based neural networks doing the remastering and upscale
- For example, in 4K remastering instead of the device-based conversion with enlarging each frame 20 times, AI adds realistic detail to the 19 newly generated pixels for each pixel of the original video and the final 4K result has a lot more details than the conversion done by the display

# Technology Demo request:

- Super resolution
- Noise reduction
- Frame Interpolation
- DeInterlacer



Your name

Your company

Your email

Of which technologies would you like to receive the demos?

- Super Resolution
- Noise Reduction
- Frame Interpolation
- De-Interlacing

