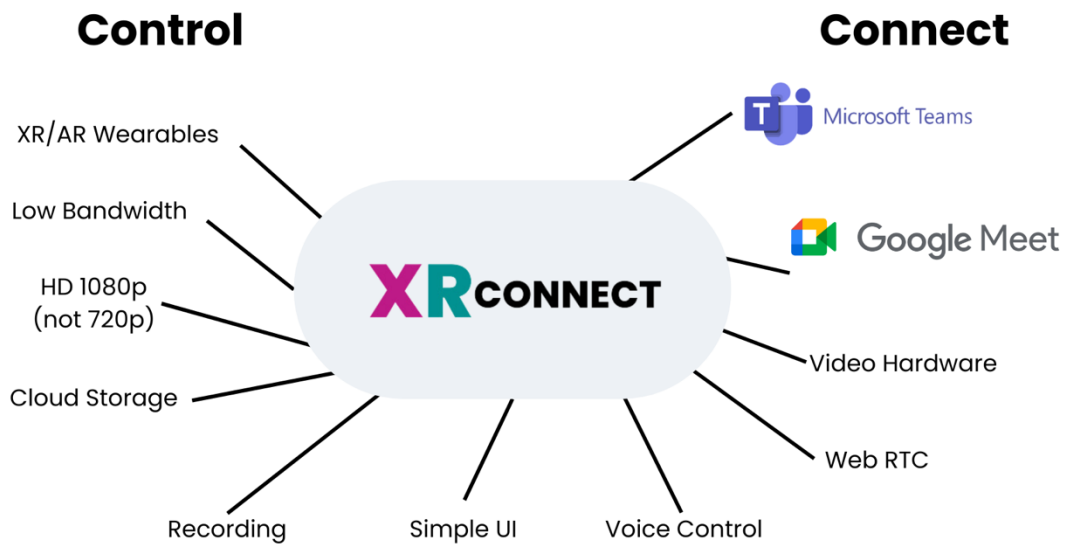# Why Use SimplyVideo's XRConnect software?

What is SimplyVideo's XRConnect product?

It's a collaboration PowerShell that is designed to optimise Assisted and Augmented reality smart glasses by delivering two big advantages: -

- Collaboration Connection advantages
- Collaboration Control advantages

Executive Summary

XRConnect is engineered for Assisted Reality / Augmented Reality Smart Glasses so that it connects smart glass wearers to a Teams/ GoogleMeet / XRConnect call using as little as 100kbp/s of bandwidth.

That has several key benefits:

- The battery life of the smart glasses is extended NOT reduced.
- Smart glasses can be used in low bandwidth situations.
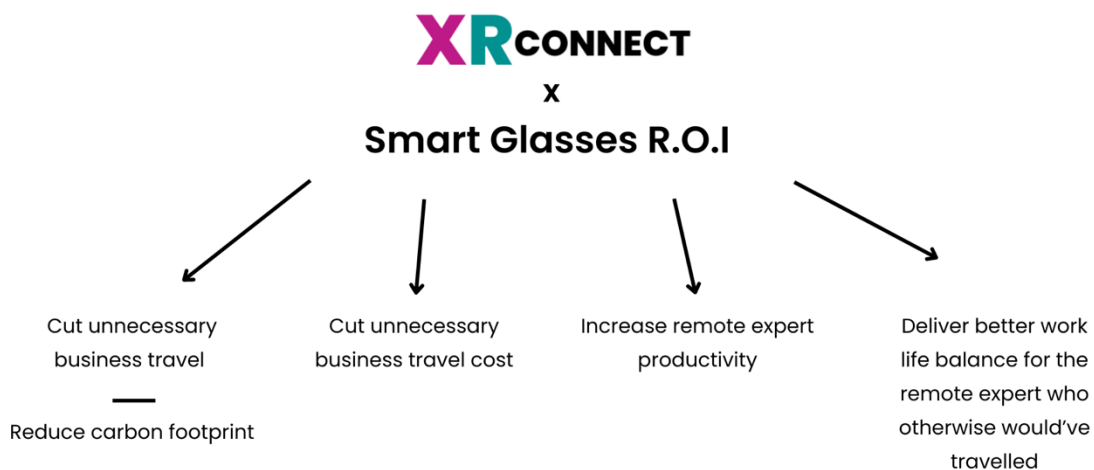- Smart glasses can have multiple "see what I see connections".

This scales smart glass wearability dramatically, removing three practical inhibitors to everyday practical use.

Why is XRConnect so useful?

Remote Expert access to smart glasses and "see what I see" uses cases abound across numerous industries; -

- Engineering
- Construction
- Medical
- Healthcare

However, at first glance smart glasses are not cheap, so how do we articulate the business case for them?

XRCONNECT
x
Smart Glasses R.O.I

Cut unnecessary business travel

Reduce carbon footprint

Cut unnecessary business travel cost

Increase remote expert productivity

Deliver better work life balance for the remote expert who otherwise would've travelled

SimplyVideo's XRConnect platform enables smart glass devices to perform Remote Assistance and Remote Inspection sessions with as little as 100kbp/s of bandwidth, whereas Microsoft Teams (for example) requires 512kbp/s of bandwidth to be used. (Roughly 21% of the necessary requirement)

XRConnect Use Case Example – Customer Video

The Simple video that follows asks and answers some very basic questions.
The customer is a pipeline engineering company, the hardware Realwear HMT-1Z1 / Realwear Navigator 500 and the software SimplyVideo's XRConnect.
Use cases: - Remote Expert, Remote inspection, Training, Knowledge retention.

The Questions the video answers

Why did you select Simplyvideo XRConnect over Microsoft Teams?

0mins-1 min 37secs

Tell us about the **use cases** you used the Realwear Smart Glasses and Simplyvideo XRConnect for?

1min 38secs – 2mins 41sec

Has the **nature of the deployment** of smart glasses changed?

2mins 42secs – 3mins 23 secs

Where do you deploy the smart glasses solution?

3mins 24secs – 3mins 52secs

Do you conduct **any training** where your experts are based remotely?

3mins 53 secs – 4mins 37 secs

Have you made any **travel savings?**

4mins 38secs – 5 mins 56secs

Did using Simplyvideo extend the **battery life to 7-8hours?**
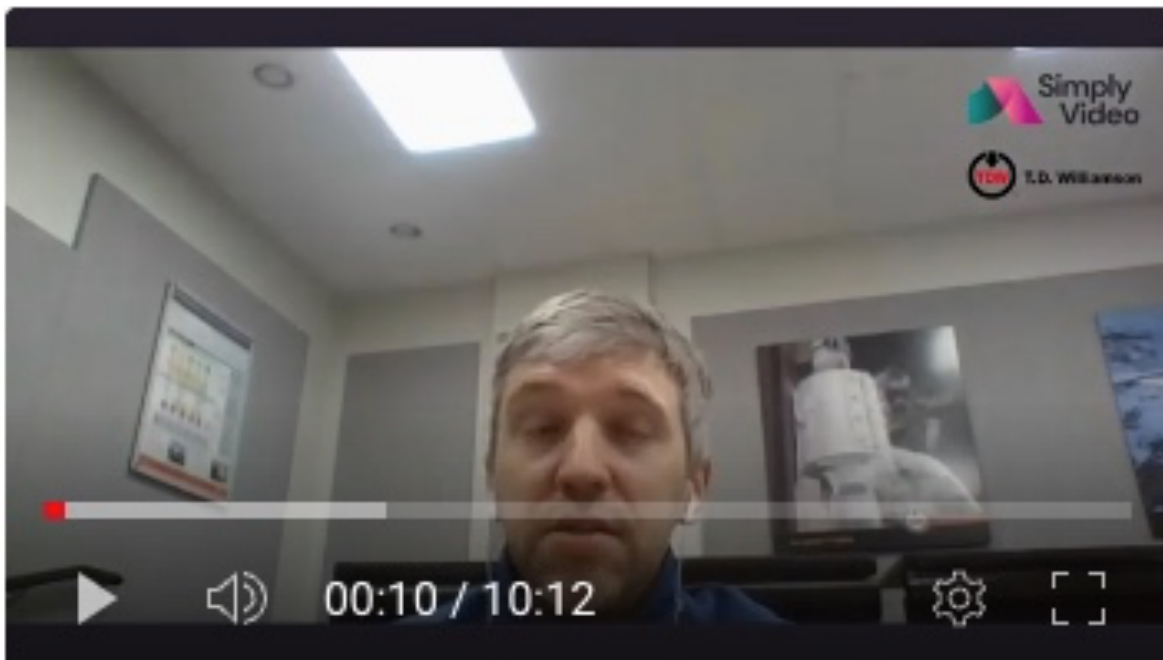
5 mins 57secs – 6 mins 18secs

Do you use the **smart glasses inside** as well as in the field?

6mins 19secs

What did you used to do before Realwear and SimplyVideo's XRConnect?

6mins 59secs – 9mins34secs

How do you find the Simplyvideo XRConnect user interface?

Video:

Executive Summary

XRConnect can be used as a standard alone collaboration service OR as a bridge to Connect Microsoft Teams uses to smart glasses WITHOUT; -

- **Lowering the call image quality?**
- **Reducing the number of practical connections to the smart glasses in "see what I see use cases".**
- **Reducing the smart glasses battery life performance**

'See what I see'
on Microsoft Teams

DOWNSIDES

- Poor quality on 720p video
- Run down battery quickly on the smart glasses
- Doesn't work on low bandwidth

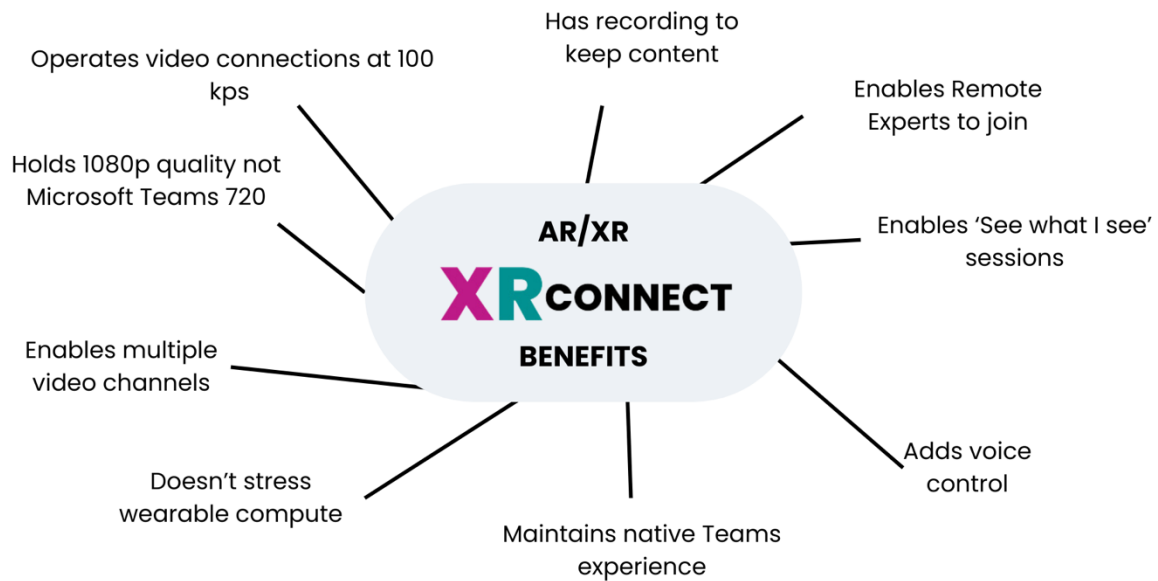'See what I see'
using XRConnect

UPSIDES

- 1080p HD quality video
- Extends battery life
- Works in as little as 100kb/sec bandwidth

How it adds value:

1. Microsoft Teams can be used in challenging environments with poor connectivity, which maximises device coverage and improves remote collaboration capabilities.
2. It also means that "remote experts" do not have to learn a new collaboration tool.
3. The smart glass wearer has a simpler collaboration call launch journey with no O365 sign in required.

Executive Summary – Other XRConnect benefits for Smart Glasses

Operates video connections at 100 kps

Holds 1080p quality not Microsoft Teams 720

Enables multiple video channels

Doesn't stress wearable compute

Has recording to keep content

Enables Remote Experts to join

Enables 'See what I see' sessions

AR/XR
XR CONNECT
BENEFITS

Adds voice control

Maintains native Teams experience

Office 365 Simple user journey with XRConnect - how?

The smart glasses join the call with no sign in required on the SimplyVideo XRConnect application vs Microsoft Teams native application where users must sign in.

How does that add value?

For shared device deployments, sharing O365 credentials presents security risks and vulnerabilities. By using a guest sign in, we reduce the risk to infosec.
Signing in through using voice commands also presents an infosec risk in work environments where credentials can be overheard.

What other benefits does XRConnect deliver?

Enhanced multi-device collaboration capabilities.

Why? Native Microsoft Teams application presents the device's perspective with a view through the media stream. With the XRConnect integration, users join through a SIP connection: this enables us to use multiple devices simultaneously in the same call for enhanced Assistance or collaboration capabilities with each connection using a 100kbps SIP connection not a bandwidth heavy media stream (Microsoft Teams). XRConnect Cloud can connect the Smart glasses to a Microsoft Teams call using a more efficient solution (not a media stream) and this is what extends the battery life of the device.

How XRConnect adds value?

Multiple device viewers provide a more rounded perspective of the subject being inspected as well as getting remote experts "on the same page" as the smart glass wearer very quickly. It also improves operational efficiency by helping Remote Experts to view different angles simultaneously.

What else does XRConnect deliver as a benefit?

Full voice command support

Why? XRConnect Cloud application enables users to use all the smart glass device's voice commands, whereas the voice command capabilities inside MS Teams natively, are limited.

How it adds value: Operational efficiency is improved as frontline professionals can work hands-free, using the smart glasses native torch application instead of a handheld torch. The smart glass wearer can also use features such as Zoom to provide a close-up perspective in hazardous environments to inspect from afar.

What XRConnect increases call quality?

Yes, the call benefits from enhanced video resolution.

How? SimplyVideo's XRConnect provides up to 1080p capabilities inside Microsoft Teams, whereas the native application offers 720p maximum.

Benefit: Better resolution video for any detailed inspection use cases plus a handsfree smart glass experience as they use voice commands and torch functionality, as a result productivity is often dramatically improved.