

FORMULA 1 · BBC · SKY SPORTS · RED BULL · ECB CRICKET · WIMBLEDON



FIBRE OPTICS FOR LIVE BROADCAST — PORTFOLIO

OPTIC FUSION

CASE STUDIES

A look back at some of the events Optic Fusion has carried the signal for – from festival fields to royal processions, mountainsides to cricket grounds.

20+ YEARS IN LIVE BROADCAST
WORLDWIDE DEPLOYMENTS
FOUNDED BY TIM SEWARD

WWW.OPTICFUSION.CO.UK
PREPARED 2026

— WHO WE ARE

TWENTY YEARS OF CARRYING THE SIGNAL

Founded by Tim Seward, Optic Fusion has spent more than two decades at the sharp end of live broadcast — running fibre to wherever the world's biggest moments are happening, from Grand Prix paddocks to festival fields, royal processions to remote Welsh hillsides.

The team plans, supplies, installs, splices, tests and de-rigs the optical backbone that carries 4K camera feeds, on-board data, timing, comms, lighting and CCTV out of a venue and on to screens worldwide — usually against a broadcast deadline that cannot move. Optic Fusion also hires and supplies deployable fibre and copper cabling for one-off events, and designs Fibre-to-the-Home solutions in the UK and USA.

01 CAPABILITY

- Plan, supply, install, splice, test & repair
- Broadcast & military-grade fibre, 4 – 96 core
- MPO / MTP high-density fibre systems
- Armoured fibre & copper patch leads, made to measure
- Rapid rig & de-rig for one-off live events
- Fibre-to-the-Home design & deployment, UK & USA

02 TRUSTED BY

FORMULA 1

BBC

SKY SPORTS

ECB CRICKET

RED BULL

WIMBLEDON

FORMULA E

GLASTONBURY FESTIVAL

2018

ROYAL WEDDING & FIFA
WORLD CUP

2021

THE HUNDRED, UK-
WIDE

2022

ENGLAND'S TOUR OF
PAKISTAN

Annual

GLASTONBURY
FESTIVAL

Ongoing

RED BULL HARDLINE,
WALES



GLASTONBURY FESTIVAL

Worthy Farm, Somerset · Optic Fusion's longest-running annual build, for the BBC

Every June, the Vale of Avalon becomes the largest greenfield performing arts festival in the world — and, for one week, one of the most complex temporary broadcast environments anywhere. Optic Fusion plans and installs the festival's fibre optic backbone for the BBC, working alongside cabling partner Connectix to keep over 100 stages on air.

210,000+

FESTIVAL VISITORS (2023)

21M+

GLOBAL TV AUDIENCE

100+

STAGES CONNECTED

→ THE BRIEF

Reach every inner and outer vendor and every stage across 900 acres of working farm, then carry vision, audio and data back to the BBC for output across BBC One, iPlayer, Sounds and News — without disrupting five days of farming, headline sets and 800 vendors trading around the clock.

→ OUR APPROACH

Planning starts seven to eight months before the gates open. Optic Fusion designs the full site build, then installs singlemode armoured cable, patch panels, leads and splice points stage by stage, scheduling deliveries carefully around a live, working farm and the safety of more than 200,000 visitors walking over the cable runs.

ON AIR

A site-wide optical network robust enough to carry simultaneous broadcast from over 100 stages to a worldwide audience above 21 million — built, run and struck back down again, every single year. Founder Tim Seward puts the festival's reliability down to working with cabling partners who keep stock moving fast across the UK, since a stage rarely gets more than a few hours' notice when something needs fixing in a muddy field.



THE ROYAL WEDDING

Windsor, Berkshire · May 2018 · BBC world feed

When Prince Harry and Meghan Markle married at St George's Chapel, BBC cameras lined the procession route through historic Windsor, feeding a live broadcast watched by millions in the UK and picked up by networks around the world.

18M

UK TV AUDIENCE

13.1M

PEAK BBC ONE AUDIENCE

1 DAY

NO RETAKES ON THE DAY

→ THE BRIEF

Deliver broadcast-grade fibre connectivity along a public, historic processional route and into a temporary compound of outside broadcast trucks — without a single visible cable disrupting the look of the day, and without compromising a heritage site or its security perimeter.

→ OUR APPROACH

Optic Fusion supplied and installed the fibre network linking BBC camera positions along the Windsor route and castle precincts back to the broadcast compound, carrying vision, audio and data into the world feed — part of the same long-running BBC outside-broadcast relationship behind the corporation's coverage of Glastonbury, Wimbledon and its nature-watch series.

ON AIR

A clean, uninterrupted world feed of one of the most-watched ceremonial events of the decade — live to a UK audience of 18 million, with millions more watching via broadcasters across the United States and beyond, on a day where the network simply had to work, first time.



RED BULL HARDLINE

Dyfi Valley, Wales · Live worldwide on Red Bull TV & YouTube

Billed as the world's toughest downhill mountain bike race, Red Bull Hardline runs down a near-vertical Welsh hillside with no permanent infrastructure of any kind — exactly the remote, rugged broadcast environment Optic Fusion built its reputation on.

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PERMANENT INFRASTRUCTURE
ON SITE

4K

MULTI-CAMERA LIVE WORLD
FEED

BUILT & STRUCK

IN DAYS, NOT WEEKS

→ THE BRIEF

Get a broadcast-grade fibre network up a remote Welsh mountainside, connecting multiple camera positions strung down the course, on-board rider cameras, timing and comms back to the outside broadcast compound — exposed throughout to wind, rain and the steep terrain that makes Hardline famous — then strike it all again once the riders go home.

→ OUR APPROACH

Using armoured, outdoor-rated fibre and rapid-deploy connectors from its hire range, Optic Fusion runs cable to every camera and timing position on the course, splicing and testing on site to guarantee a clean signal path before racing starts — the same install discipline the team applies on Formula One and Formula E circuits around the world.

ON AIR

A reliable live world feed from one of action sports' most extreme events, streamed globally on Red Bull TV and YouTube to mountain biking's biggest audience — on a hillside that, days later, shows no sign anyone was ever there.



CRICKET IN PAKISTAN

Karachi, Lahore & Multan · England's first tour of Pakistan in 17 years

In 2022, England's men's team toured Pakistan for the first time since 2005 — seven T20Is in Karachi and Lahore, followed by a historic three-Test series. With Sky Sports holding UK broadcast rights and a world feed to deliver, grounds that hadn't carried a major international broadcast in close to two decades needed their fibre infrastructure rebuilt from the ground up.

17 YRS

SINCE ENGLAND'S LAST TOUR

3

VENUES: KARACHI, LAHORE,
MULTAN/RAWALPINDI

3-0

ENGLAND'S HISTORIC TEST
SERIES WIN

→ THE BRIEF

Rebuild broadcast-grade fibre connectivity across grounds that had gone years without hosting top-level international coverage, on a compressed touring schedule, a long way from the UK supply chain Optic Fusion normally relies on.

→ OUR APPROACH

Drawing on its long-standing ECB Cricket relationship — built through domestic work including The Hundred — Optic Fusion applied the same plan, install, splice and test discipline used on home tours and at Wimbledon to deliver vision, audio and data into the world broadcast compound, working alongside the production crew on the ground.

ON AIR

Coverage of an emotionally significant return tour — including England's 3-0 Test whitewash in December 2022 — was carried cleanly to Sky Sports' UK audience and broadcasters worldwide, off the back of a broadcast network rebuilt specifically to get the tour back on air.

OTHER SIGNALS CARRIED OVER THE YEARS

Glastonbury, the Royal Wedding, Hardline and Pakistan sit alongside two decades of other live broadcast work.



FORMULA 1 – LIVE WORLD FEED

2009 –

16+ years on the F1 timing, on-board camera, team radio and live television signal sold to broadcasters across the globe, paddock to paddock.



THE CHAMPIONSHIPS, WIMBLEDON

Annual

Fibre connectivity across the All England Club for the BBC's coverage of the world's oldest tennis championship.



BBC SPRINGWATCH, AUTUMNWATCH & WINTERWATCH

Ongoing

Remote camera feeds from the UK's wildest locations, carried live into BBC studios across every season of the year.



2018 FIFA WORLD CUP, RUSSIA

2018

Broadcast fibre support for one of the most-watched sporting events on the planet.



THE QUEEN'S 90TH BIRTHDAY PARADE

2016

Ceremonial broadcast infrastructure in central London for BBC coverage of the parade.



THE HUNDRED

2021 –

Fibre network build for the ECB's flagship short-form cricket tournament across UK grounds.



FORMULA E

2019 –

System install planning and rollout of broadcast fibre for the all-electric racing series' global calendar.



GET IN TOUCH

LET'S CARRY THE NEXT ONE.

From a single OB truck to a multi-stage festival site, Optic Fusion plans, installs and supports the fibre optic network behind the broadcast — wherever in the world the signal needs to go.

WWW.OPTICFUSION.CO.UK

Case studies compiled from Optic Fusion's published project history, founder Tim Seward's industry record, and independent supplier & broadcast-industry sources. Figures for Glastonbury Festival (2023 attendance & global audience) and the Royal Wedding (2018 UK TV audience) are independently reported. Get in touch for the latest figures and full project list.